

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198638

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-T4W-7030  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5292 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

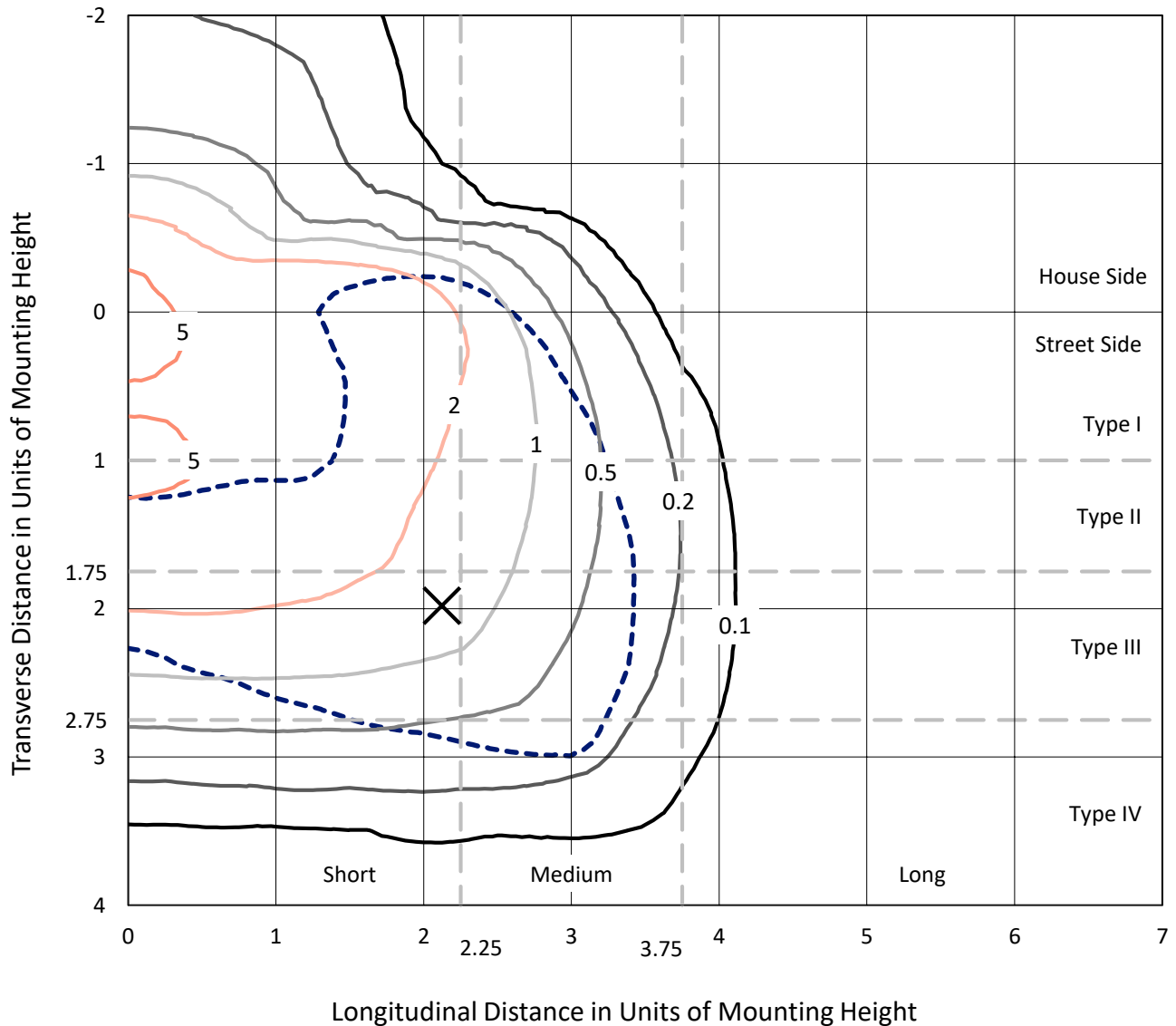
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

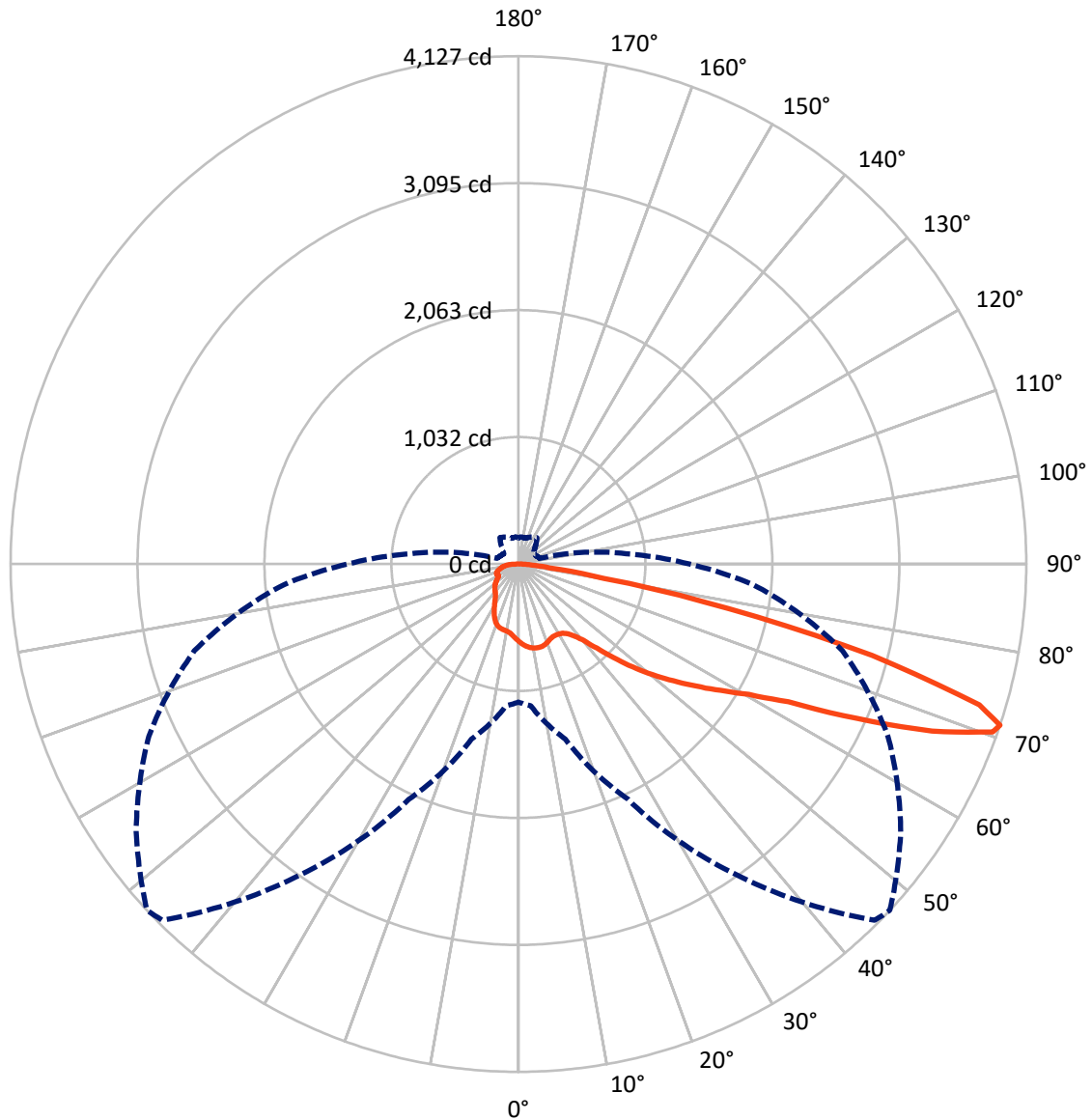
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1134.2	0.0	1134.2
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	4157.8	0.0	4157.8
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	5292.0	0.0	5292.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	1.1
10°-20°	175.8	3.3
20°-30°	261.2	4.9
30°-40°	375.1	7.1
40°-50°	665.0	12.6
50°-60°	1137.9	21.5
60°-70°	1615.4	30.5
70°-80°	884.7	16.7
80°-90°	116.8	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5292.0	100.0
0°-180°	5292.0	100.0



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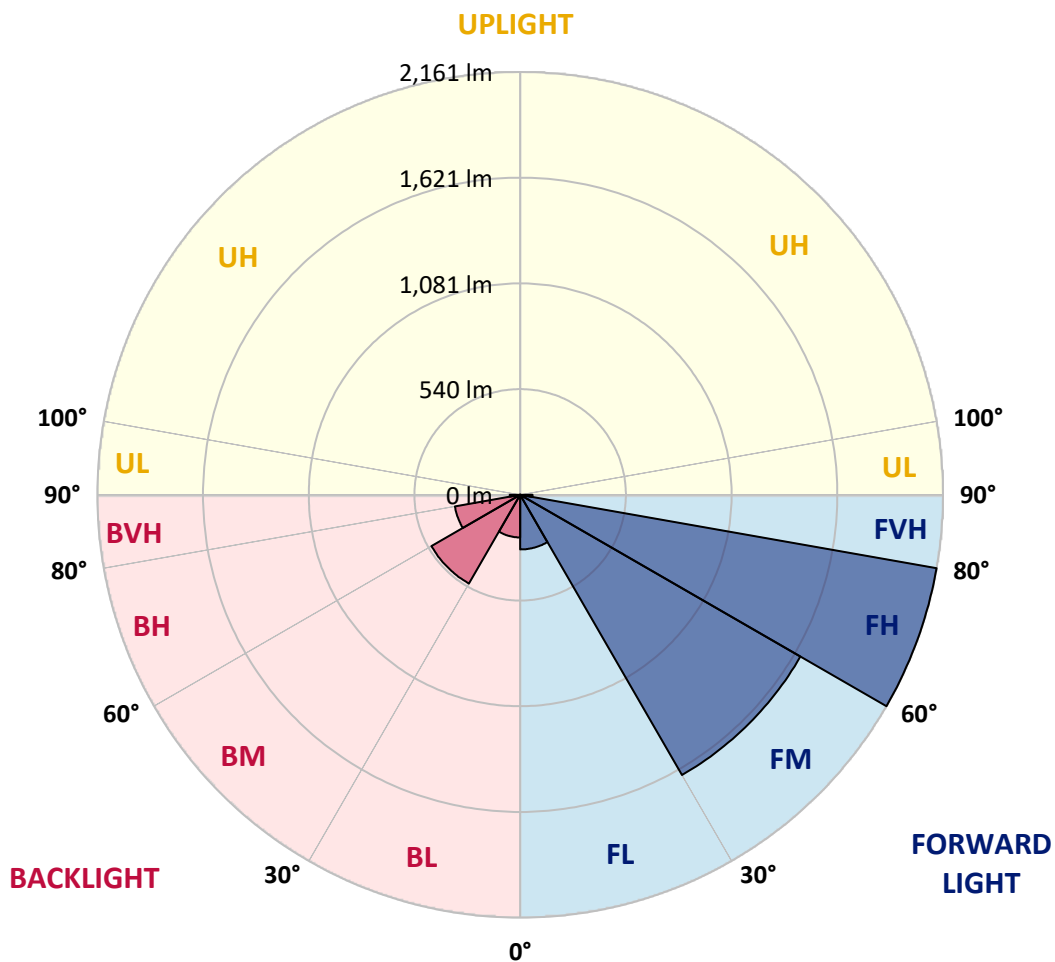
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.3	5.3			
FM	(30°-60°)	1653.9	31.3			
FH	(60°-80°)	2161.3	40.8			G2/5000
FVH	(80°-90°)	63.3	1.2			G1/100
BL	(0°-30°)	217.8	4.1	B1/500		
BM	(30°-60°)	524.0	9.9	B1/1000		
BH	(60°-80°)	338.9	6.4	B1/500		G1/500
BVH	(80°-90°)	53.4	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
2.5°	667.7	666.3	667.0	664.6	658.8	652.6	652.6	646.1	639.3	632.4	624.8
5°	709.2	707.2	705.4	697.9	686.6	673.9	671.8	658.8	644.7	630.7	617.0
7.5°	743.9	741.8	736.6	722.9	706.5	687.6	685.2	668.1	649.5	630.0	610.8
10°	768.5	767.2	757.2	739.7	720.5	698.2	694.1	676.6	654.7	630.3	606.0
12.5°	782.3	780.2	768.2	747.6	725.0	702.4	698.2	681.4	656.4	629.7	601.2
15°	776.8	775.7	764.4	743.5	720.9	701.3	697.9	680.7	655.4	627.2	596.7
17.5°	753.5	755.9	746.9	726.4	707.8	694.1	690.4	674.2	650.2	621.4	589.9
20°	721.2	724.0	719.5	698.6	688.0	679.0	677.0	663.9	641.7	612.8	581.6
22.5°	686.9	689.3	689.7	670.1	666.7	663.3	661.5	652.3	634.1	607.7	576.2
25°	663.3	666.0	666.7	649.5	651.6	652.6	652.3	645.8	632.7	607.7	576.8
27.5°	657.1	658.5	657.8	642.0	645.8	651.6	651.9	650.6	638.2	614.6	586.4
30°	678.3	679.0	670.5	646.8	650.6	658.1	658.5	657.8	649.9	632.4	608.0
32.5°	770.3	769.6	740.1	679.0	666.0	668.7	669.8	675.9	676.6	661.9	639.3
35°	910.2	909.8	875.5	771.3	709.9	695.5	696.9	706.5	715.0	705.1	692.1
37.5°	1064.2	1065.2	1044.3	903.0	804.6	744.5	743.2	750.4	765.8	769.2	770.9
40°	1235.0	1240.1	1239.1	1054.2	937.3	828.2	814.5	806.3	836.1	855.0	879.3
42.5°	1430.1	1428.7	1429.4	1220.2	1088.9	959.9	934.5	896.1	930.8	963.3	1016.8
45°	1597.8	1603.3	1607.4	1396.8	1258.6	1110.5	1084.7	1014.8	1046.0	1094.7	1176.3
47.5°	1766.5	1756.9	1764.5	1593.3	1447.6	1282.3	1249.0	1154.7	1183.9	1252.4	1376.6
50°	1963.0	1958.6	1924.3	1849.9	1676.0	1456.5	1412.9	1300.8	1343.3	1434.9	1623.9
52.5°	2139.3	2115.3	2088.5	2051.5	1900.6	1632.8	1577.6	1452.7	1530.9	1644.4	1930.8
55°	2203.8	2187.7	2219.9	2267.9	2138.3	1812.5	1750.7	1630.0	1742.5	1884.1	2291.9
57.5°	2272.4	2277.9	2350.6	2447.6	2363.2	2004.2	1937.3	1839.9	1974.7	2152.3	2695.6
60°	2306.7	2328.6	2473.7	2655.8	2577.2	2214.4	2150.3	2081.0	2232.2	2448.6	3098.2
62.5°	2312.5	2342.0	2547.4	2728.8	2871.8	2536.4	2462.4	2387.3	2553.9	2776.2	3389.7
65°	2205.5	2250.8	2540.9	2818.7	3140.4	3074.5	3027.5	2896.5	2984.7	3064.6	3439.4
67.5°	1891.0	1940.4	2289.5	2781.6	3355.7	3632.8	3623.9	3430.5	3317.3	3176.0	3070.7
70°	1387.9	1427.7	1763.1	2378.0	3261.8	4071.1	4086.9	3776.5	3410.3	2939.4	2283.3
71°	1122.5	1156.8	1473.0	2111.2	3078.6	4093.8	4126.7	3792.0	3313.6	2725.7	1911.6
72.5°	698.6	717.8	978.1	1593.3	2651.0	3860.6	3916.1	3594.4	3009.0	2303.9	1351.2
75°	263.7	271.3	362.8	702.7	1582.4	2900.3	2967.5	2716.5	2113.9	1315.2	565.5
77.5°	141.6	145.4	180.0	292.2	634.1	1662.6	1749.0	1549.4	1014.1	460.2	231.1
80°	95.0	97.4	124.5	173.2	291.5	633.1	705.1	622.1	379.6	262.7	164.6
82.5°	61.4	62.8	84.7	113.9	188.3	222.6	254.1	265.4	237.0	188.3	99.5
85°	40.5	41.5	55.9	72.7	116.6	109.7	112.5	147.1	161.5	124.1	50.8
87.5°	23.3	24.0	33.6	37.4	52.5	41.2	44.6	70.0	96.0	80.9	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3	629.3
2.5°	621.4	618.7	612.5	608.7	607.0	606.3	605.6	607.0	607.0	606.3	605.0
5°	610.1	605.0	594.7	587.5	583.7	582.7	584.0	585.8	586.8	586.8	585.8
7.5°	601.9	594.3	580.6	570.7	564.8	563.1	566.9	573.1	577.2	579.2	579.6
10°	595.0	584.7	569.6	559.3	554.5	553.9	558.7	566.5	575.1	578.9	579.6
12.5°	588.8	577.2	560.7	551.1	547.7	549.4	555.9	563.1	573.1	578.6	578.9
15°	583.0	571.0	553.5	543.6	542.9	545.6	551.8	557.6	565.2	572.0	572.0
17.5°	576.2	563.1	544.9	535.7	535.7	538.1	542.2	545.3	550.1	556.6	556.3
20°	567.9	554.5	536.0	526.4	524.4	523.0	523.0	523.7	527.8	533.6	534.7
22.5°	561.7	548.0	528.5	516.8	507.6	498.6	494.9	493.5	497.3	502.8	504.1
25°	561.7	548.0	526.1	506.5	483.9	466.8	459.5	457.5	461.3	466.4	468.5
27.5°	571.0	557.3	531.6	497.3	455.8	428.3	419.8	418.1	421.5	425.6	427.7
30°	592.6	579.2	547.3	486.6	424.6	388.6	379.0	377.2	379.0	380.7	383.1
32.5°	628.6	617.3	573.1	477.0	393.0	352.5	340.9	338.1	338.8	339.2	341.2
35°	687.3	682.1	607.4	465.7	363.2	323.1	311.1	305.6	305.2	306.9	309.3
37.5°	777.1	780.2	651.6	449.3	338.5	302.1	290.1	284.6	281.9	285.3	288.1
40°	904.0	911.2	702.7	427.0	318.3	289.8	277.1	272.0	268.2	267.2	268.5
42.5°	1069.0	1066.9	754.8	398.5	296.3	281.6	268.2	262.7	256.5	248.6	246.9
45°	1264.4	1235.0	798.4	363.5	271.3	273.7	260.0	252.4	242.8	231.1	229.8
47.5°	1495.2	1414.0	825.1	326.1	248.0	263.4	250.7	239.0	225.0	217.4	216.4
50°	1773.4	1623.5	844.0	288.1	227.0	250.4	237.7	222.2	208.5	206.5	206.1
52.5°	2102.6	1870.8	867.3	253.8	210.6	233.5	224.6	208.9	197.9	198.9	198.9
55°	2452.8	2126.6	868.0	226.7	196.2	214.0	215.0	202.3	193.8	197.2	198.2
57.5°	2772.0	2350.2	799.8	207.5	182.4	198.6	211.9	204.7	198.2	210.2	211.3
60°	3050.5	2522.4	653.0	191.7	171.1	192.7	218.8	219.5	218.1	250.7	253.1
62.5°	3152.4	2524.1	463.7	178.3	165.0	196.2	233.2	234.2	234.2	264.4	268.9
65°	3009.7	2313.9	308.7	170.4	160.8	203.7	244.9	240.4	229.8	250.7	245.9
67.5°	2506.9	1801.2	225.7	165.3	155.0	204.1	255.2	243.8	225.7	243.5	235.3
70°	1723.0	1146.1	189.0	160.5	148.2	195.1	260.6	242.8	219.5	227.0	216.1
71°	1386.9	914.6	179.4	158.8	145.4	190.0	261.3	241.4	216.4	221.2	211.3
72.5°	913.6	563.5	167.7	155.0	141.3	181.1	259.6	238.3	212.3	212.6	206.1
75°	360.4	233.5	150.9	146.4	129.6	166.7	252.1	231.8	204.4	197.5	194.8
77.5°	182.1	152.6	132.7	134.4	115.9	151.9	241.4	221.2	193.4	184.2	182.1
80°	133.1	115.9	113.5	116.6	100.5	137.5	228.1	206.8	179.4	189.0	184.8
82.5°	80.9	70.6	88.8	96.4	84.0	122.8	212.3	190.0	161.5	148.8	144.0
85°	38.4	41.5	64.1	71.0	62.1	98.1	194.1	171.5	141.0	121.7	123.8
87.5°	18.9	23.0	36.7	42.5	40.8	72.0	146.4	133.1	111.1	91.6	89.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)