

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: P271277

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271277
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-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5194 lumens
Efficiency: N/A
Efficacy: 89.6 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

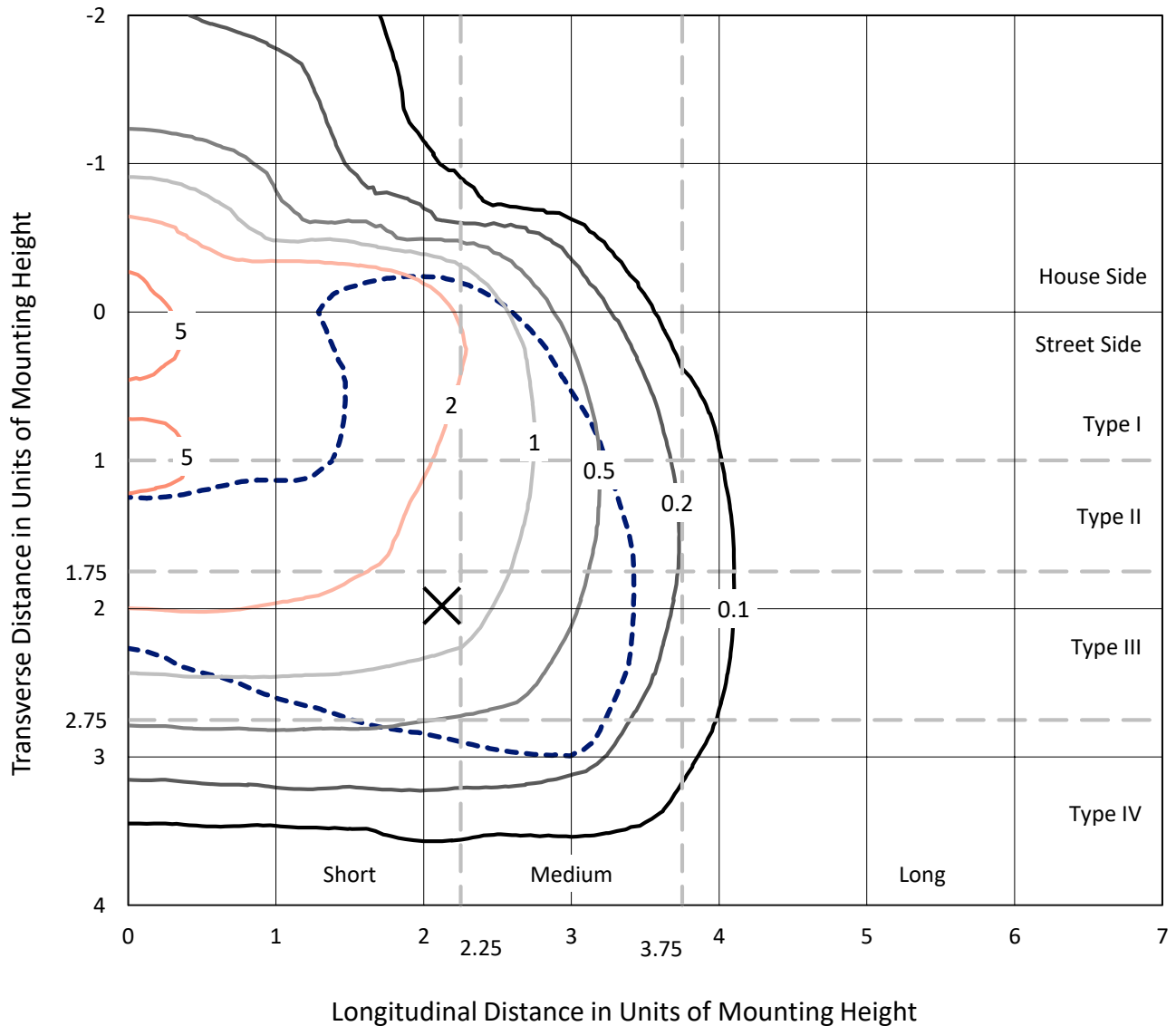
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

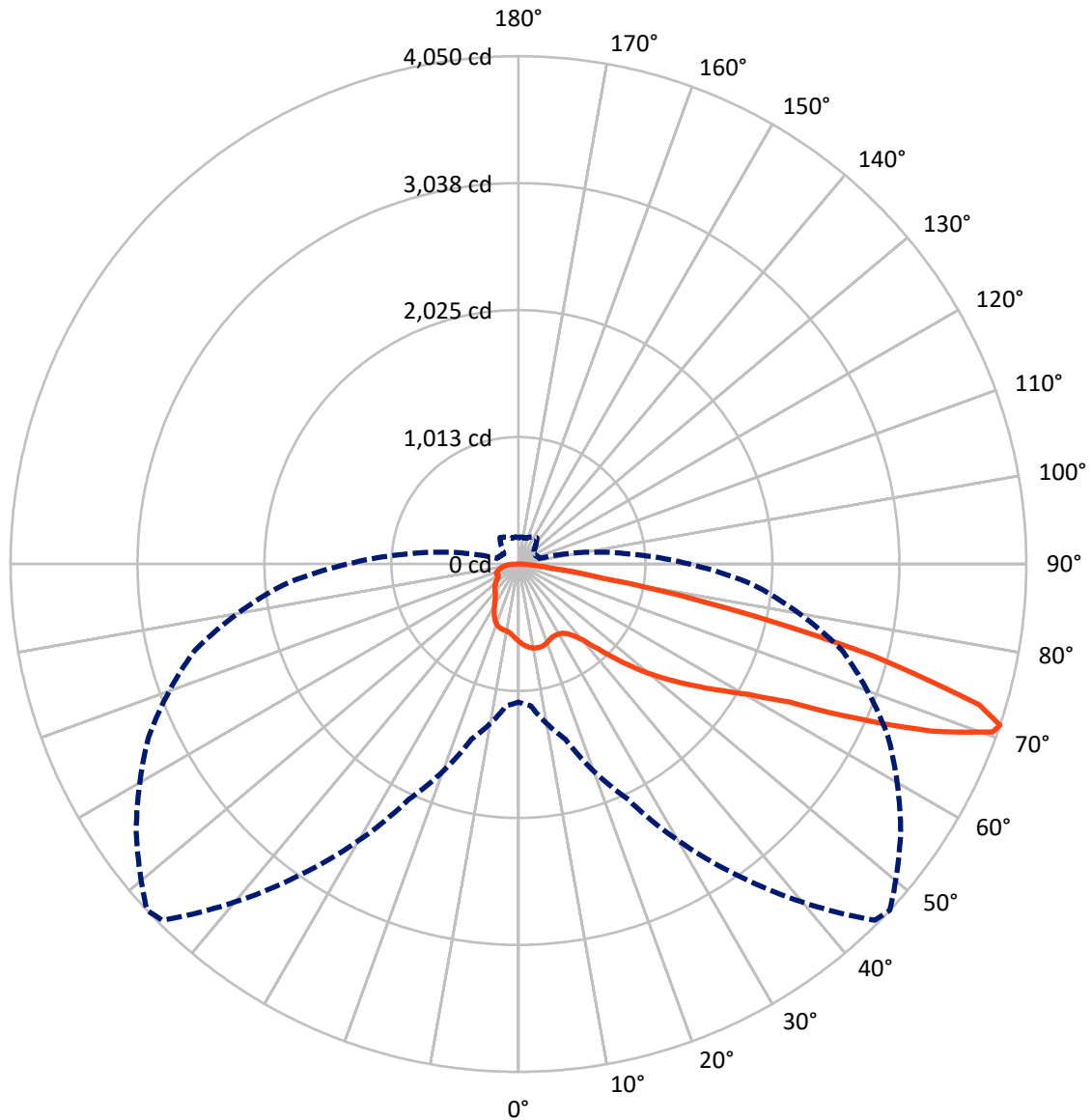
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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
House Side	Lumens	1113.1	0.0	1113.1
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	4080.9	0.0	4080.9
	% Fixture	78.6	0.0	78.6
Total	Lumens	5194.0	0.0	5194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.1
10°-20°	172.5	3.3
20°-30°	256.4	4.9
30°-40°	368.1	7.1
40°-50°	652.7	12.6
50°-60°	1116.8	21.5
60°-70°	1585.5	30.5
70°-80°	868.4	16.7
80°-90°	114.6	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°	5194.0	100.0
0°-180°	5194.0	100.0



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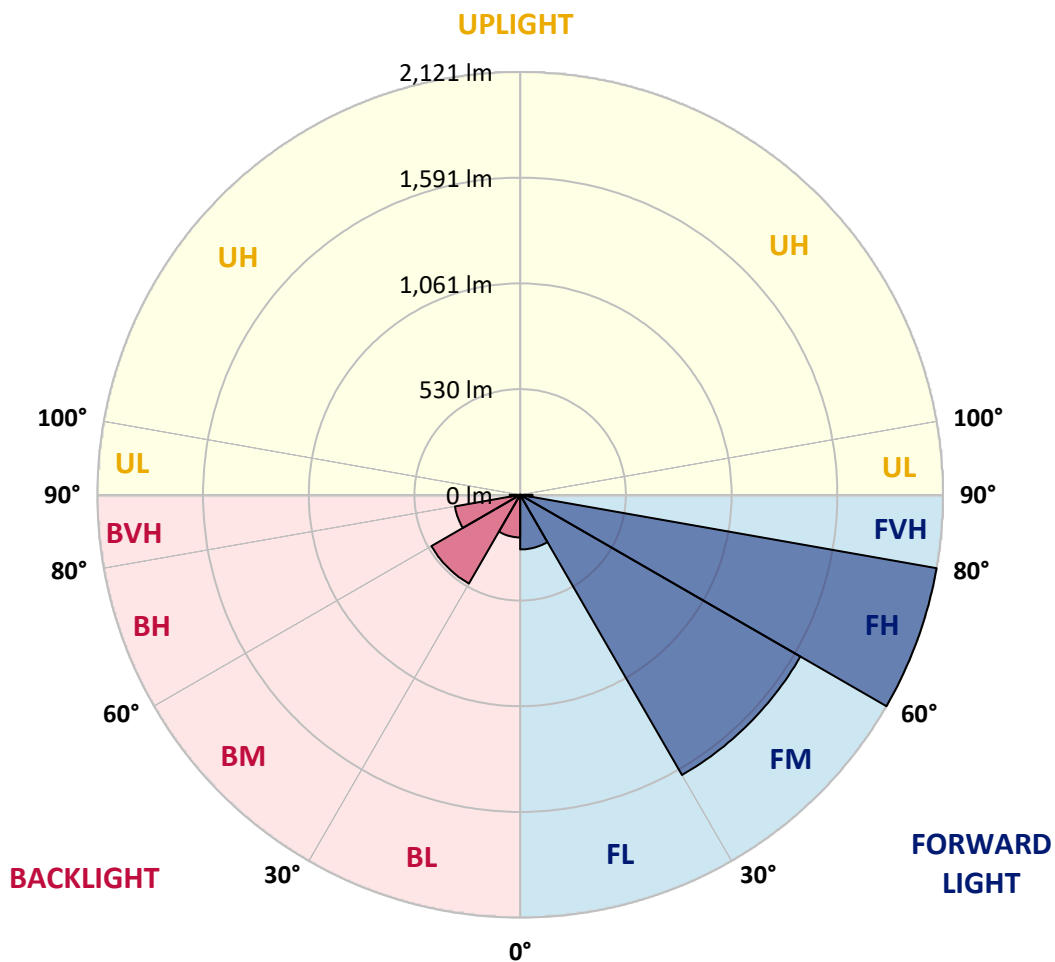
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.1	5.3			
FM	(30°-60°)	1623.3	31.3			
FH	(60°-80°)	2121.3	40.8			G2/5000
FVH	(80°-90°)	62.2	1.2			G1/100
BL	(0°-30°)	213.8	4.1	B1/500		
BM	(30°-60°)	514.3	9.9	B1/1000		
BH	(60°-80°)	332.6	6.4	B1/500		G1/500
BVH	(80°-90°)	52.5	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°	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
2.5°	655.4	654.0	654.7	652.3	646.6	640.5	640.5	634.2	627.5	620.6	613.3
5°	696.0	694.1	692.4	685.0	673.9	661.4	659.4	646.6	632.8	619.0	605.5
7.5°	730.1	728.0	723.0	709.5	693.4	674.8	672.6	655.8	637.4	618.4	599.4
10°	754.2	753.0	743.2	726.0	707.1	685.2	681.3	664.0	642.6	618.7	594.8
12.5°	767.8	765.7	753.9	733.7	711.5	689.4	685.2	668.8	644.3	618.0	590.0
15°	762.4	761.4	750.3	729.8	707.5	688.3	685.0	668.1	643.2	615.6	585.6
17.5°	739.6	741.9	733.0	713.0	694.7	681.3	677.6	661.7	638.2	609.9	579.0
20°	707.9	710.6	706.2	685.6	675.3	666.5	664.4	651.6	629.8	601.4	570.9
22.5°	674.2	676.6	677.0	657.6	654.3	651.0	649.3	640.2	622.3	596.5	565.6
25°	651.0	653.6	654.3	637.4	639.6	640.5	640.2	633.8	621.0	596.5	566.1
27.5°	645.0	646.3	645.6	630.2	633.8	639.6	639.9	638.5	626.4	603.2	575.5
30°	665.7	666.5	658.1	634.8	638.5	645.9	646.3	645.6	637.8	620.6	596.7
32.5°	756.1	755.4	726.4	666.5	653.6	656.3	657.4	663.4	664.0	649.7	627.5
35°	893.4	892.9	859.3	757.0	696.7	682.6	684.0	693.4	701.8	692.1	679.3
37.5°	1044.5	1045.4	1025.0	886.3	789.7	730.7	729.5	736.5	751.6	754.9	756.6
40°	1212.2	1217.2	1216.1	1034.7	920.0	812.8	799.4	791.3	820.6	839.1	863.0
42.5°	1403.6	1402.3	1403.0	1197.6	1068.8	942.1	917.2	879.5	913.5	945.5	997.9
45°	1568.3	1573.7	1577.7	1371.0	1235.3	1090.0	1064.6	996.0	1026.7	1074.5	1154.5
47.5°	1733.8	1724.3	1731.8	1563.8	1420.8	1258.5	1225.8	1133.3	1162.0	1229.2	1351.1
50°	1926.7	1922.4	1888.6	1815.7	1644.9	1429.6	1386.8	1276.8	1318.4	1408.4	1593.9
52.5°	2099.7	2076.2	2049.8	2013.6	1865.4	1602.5	1548.4	1425.8	1502.5	1614.0	1895.1
55°	2162.9	2147.2	2178.7	2225.9	2098.7	1779.0	1718.3	1599.8	1710.3	1849.3	2249.4
57.5°	2230.3	2235.7	2307.0	2402.2	2319.5	1967.1	1901.4	1805.9	1938.2	2112.5	2645.7
60°	2264.0	2285.5	2427.8	2606.6	2529.4	2173.4	2110.5	2042.4	2190.8	2403.2	3040.9
62.5°	2269.7	2298.7	2500.3	2678.2	2818.6	2489.5	2416.8	2343.0	2506.6	2724.7	3327.0
65°	2164.6	2209.1	2493.9	2766.5	3082.3	3017.5	2971.5	2842.9	2929.5	3007.9	3375.7
67.5°	1856.0	1904.4	2247.1	2730.0	3293.5	3565.6	3556.7	3366.9	3255.8	3117.2	3013.9
70°	1362.2	1401.3	1730.5	2333.9	3201.4	3995.8	4011.2	3706.5	3347.2	2884.9	2241.0
71°	1101.7	1135.4	1445.7	2072.1	3021.5	4017.9	4050.3	3721.8	3252.3	2675.2	1876.2
72.5°	685.6	704.5	960.0	1563.8	2601.9	3789.1	3843.6	3527.9	2953.3	2261.3	1326.2
75°	258.8	266.3	356.1	689.7	1553.1	2846.5	2912.6	2666.2	2074.7	1290.9	555.1
77.5°	139.0	142.7	176.6	286.7	622.3	1631.9	1716.7	1520.7	995.3	451.7	226.8
80°	93.2	95.6	122.2	170.0	286.1	621.4	692.1	610.6	372.5	257.9	161.5
82.5°	60.2	61.7	83.2	111.7	184.8	218.5	249.4	260.5	232.7	184.8	97.6
85°	39.7	40.8	54.8	71.3	114.4	107.6	110.4	144.4	158.6	121.8	49.9
87.5°	22.8	23.5	33.0	36.7	51.6	40.5	43.7	68.7	94.2	79.4	28.7
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°	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7	617.7
2.5°	609.9	607.3	601.1	597.5	595.8	595.0	594.4	595.8	595.8	595.0	593.8
5°	598.8	593.8	583.7	576.6	572.8	572.0	573.2	574.9	576.0	576.0	574.9
7.5°	590.7	583.3	569.9	560.2	554.3	552.6	556.4	562.5	566.6	568.4	568.8
10°	584.0	573.8	559.0	549.0	544.3	543.7	548.3	556.1	564.5	568.2	568.8
12.5°	577.9	566.6	550.3	540.9	537.5	539.3	545.6	552.6	562.5	567.9	568.2
15°	572.2	560.5	543.3	533.6	532.9	535.5	541.6	547.2	554.8	561.4	561.4
17.5°	565.6	552.6	534.9	525.8	525.8	528.2	532.2	535.2	539.9	546.3	546.0
20°	557.4	544.3	526.0	516.6	514.6	513.3	513.3	514.0	518.1	523.7	524.8
22.5°	551.3	537.8	518.7	507.3	498.2	489.3	485.8	484.4	488.0	493.4	494.7
25°	551.3	537.8	516.3	497.1	474.9	458.1	450.9	449.1	452.7	457.7	459.8
27.5°	560.5	547.0	521.7	488.0	447.4	420.3	412.1	410.3	413.7	417.7	419.8
30°	581.7	568.4	537.1	477.5	416.8	381.4	372.0	370.2	372.0	373.6	376.0
32.5°	617.0	605.8	562.5	468.1	385.7	345.9	334.6	331.8	332.6	332.9	334.9
35°	674.5	669.4	596.1	457.1	356.4	317.1	305.3	299.9	299.6	301.2	303.5
37.5°	762.8	765.7	639.6	441.0	332.3	296.5	284.8	279.4	276.7	280.0	282.7
40°	887.3	894.4	689.7	419.1	312.4	284.5	271.9	266.9	263.3	262.2	263.6
42.5°	1049.2	1047.2	740.8	391.1	290.8	276.4	263.3	257.9	251.7	244.0	242.4
45°	1241.0	1212.2	783.6	356.7	266.3	268.7	255.2	247.8	238.3	226.8	225.6
47.5°	1467.6	1387.8	809.8	320.1	243.4	258.5	246.0	234.5	220.9	213.3	212.4
50°	1740.6	1593.5	828.3	282.7	222.8	245.7	233.3	218.1	204.6	202.7	202.3
52.5°	2063.6	1836.1	851.2	249.1	206.7	229.2	220.4	205.1	194.3	195.2	195.2
55°	2407.4	2087.2	852.0	222.5	192.5	210.1	211.0	198.5	190.3	193.6	194.6
57.5°	2720.6	2306.7	784.9	203.6	179.0	194.9	208.0	201.0	194.6	206.3	207.4
60°	2994.1	2475.6	640.9	188.1	168.0	189.2	214.8	215.5	214.1	246.0	248.4
62.5°	3094.0	2477.3	455.1	175.0	162.0	192.5	228.9	229.8	229.8	259.5	263.9
65°	2953.9	2271.1	303.0	167.3	157.8	200.0	240.3	236.0	225.6	246.0	241.4
67.5°	2460.5	1767.9	221.5	162.2	152.2	200.3	250.4	239.3	221.5	238.9	231.0
70°	1691.1	1124.9	185.5	157.6	145.4	191.5	255.7	238.3	215.5	222.8	212.1
71°	1361.2	897.6	176.1	155.9	142.7	186.5	256.5	237.0	212.4	217.1	207.4
72.5°	896.7	553.0	164.6	152.2	138.7	177.8	254.8	233.9	208.3	208.6	202.3
75°	353.8	229.2	148.1	143.6	127.2	163.6	247.5	227.5	200.6	193.9	191.2
77.5°	178.8	149.7	130.3	132.0	113.7	149.1	237.0	217.1	189.8	180.7	178.8
80°	130.7	113.7	111.4	114.4	98.6	134.9	223.9	202.9	176.1	185.5	181.4
82.5°	79.4	69.3	87.1	94.6	82.5	120.6	208.3	186.5	158.6	146.1	141.4
85°	37.6	40.8	62.9	69.7	60.9	96.3	190.5	168.3	138.3	119.5	121.5
87.5°	18.5	22.5	36.0	41.7	40.1	70.6	143.6	130.7	109.1	89.9	87.9
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)