

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: P198636

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198636
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-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4275 lumens
Efficiency: N/A
Efficacy: 97.2 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 - G1

Input Watts (W): 44
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

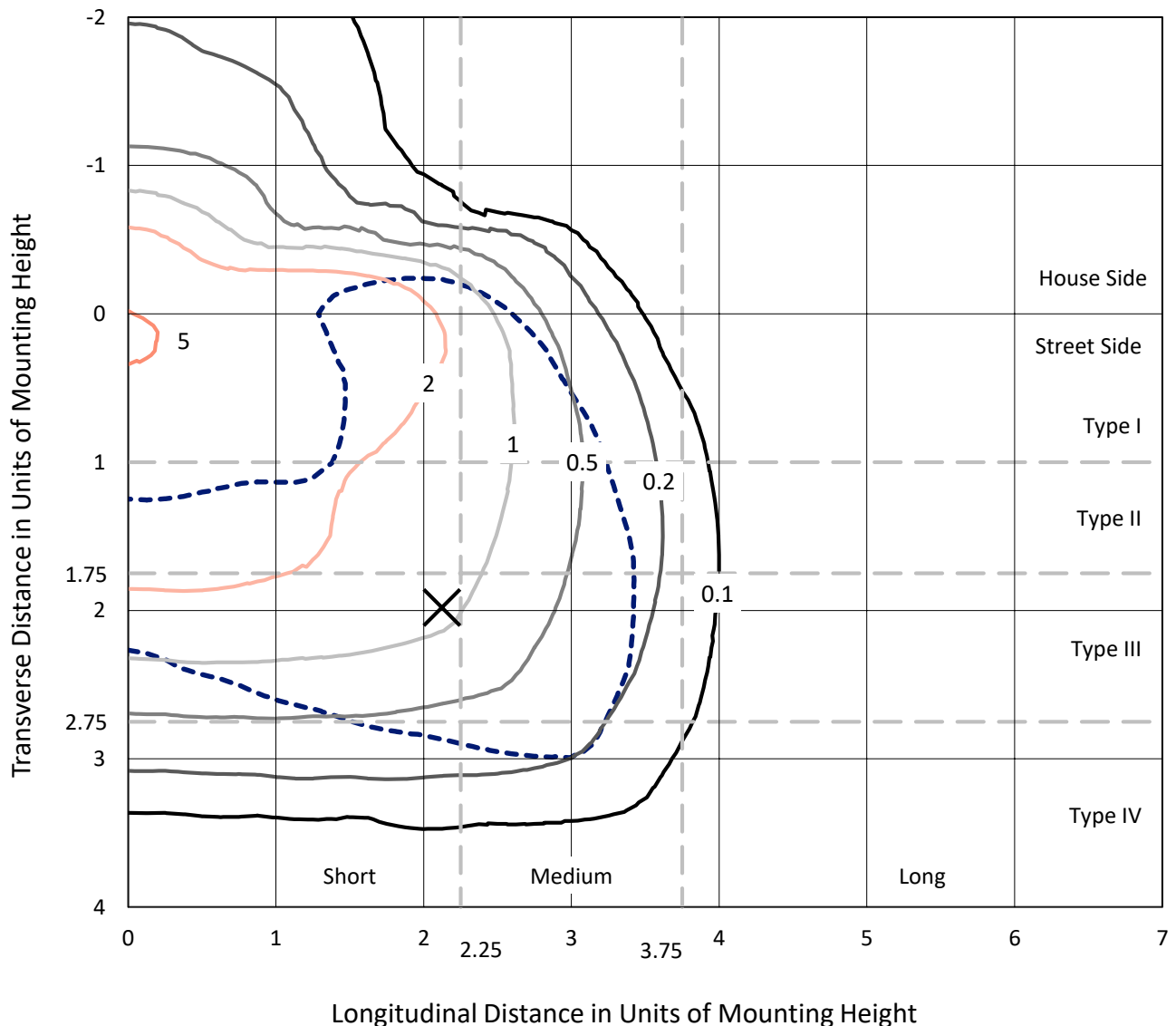


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

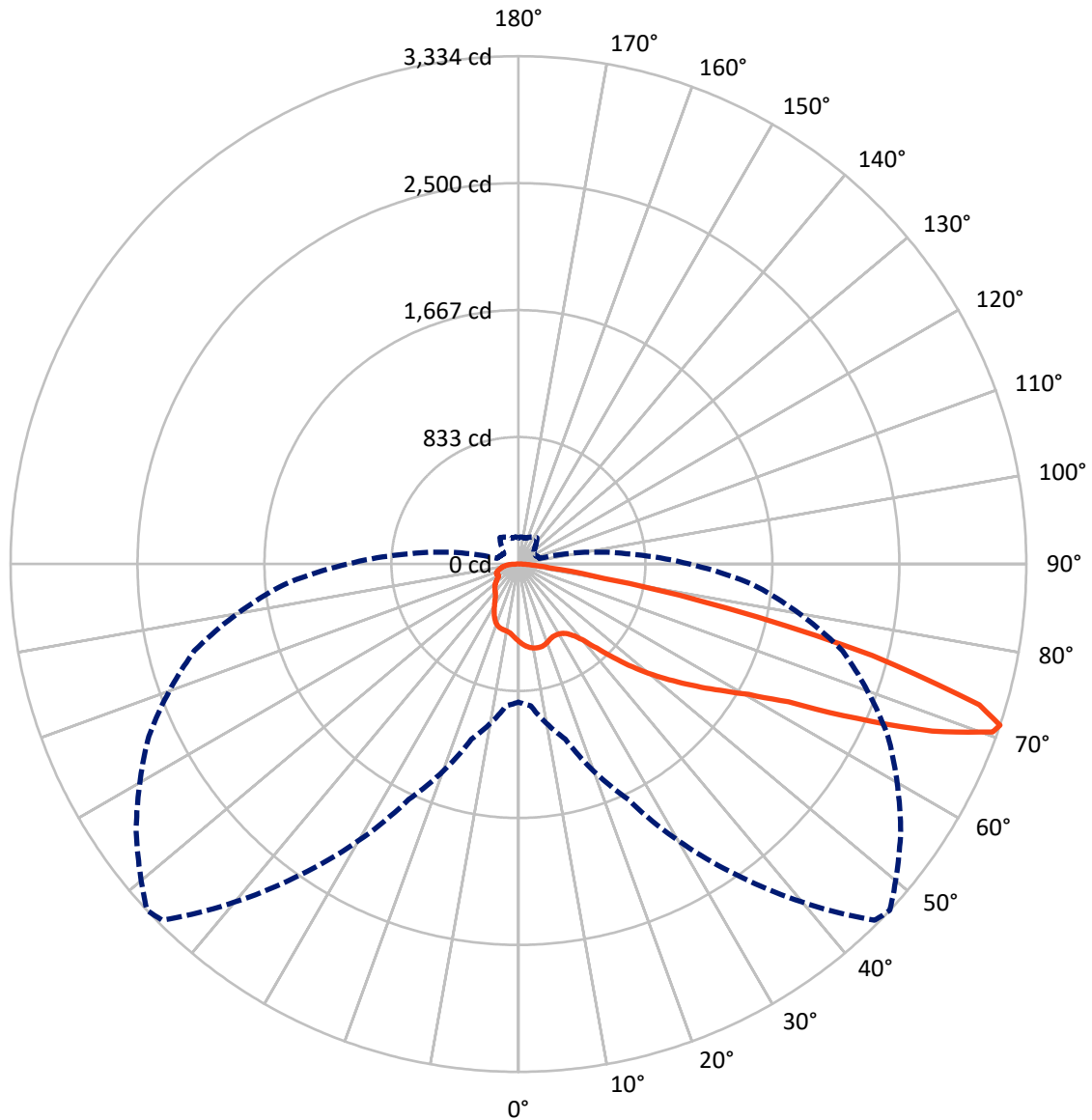


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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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	916.2	0.0	916.2
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	3358.8	0.0	3358.8
	% Fixture	78.6	0.0	78.6
Total	Lumens	4275.0	0.0	4275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	142.0	3.3
20°-30°	211.0	4.9
30°-40°	303.0	7.1
40°-50°	537.2	12.6
50°-60°	919.2	21.5
60°-70°	1305.0	30.5
70°-80°	714.7	16.7
80°-90°	94.3	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°	4275.0	100.0
0°-180°	4275.0	100.0

Coefficient of Utilization



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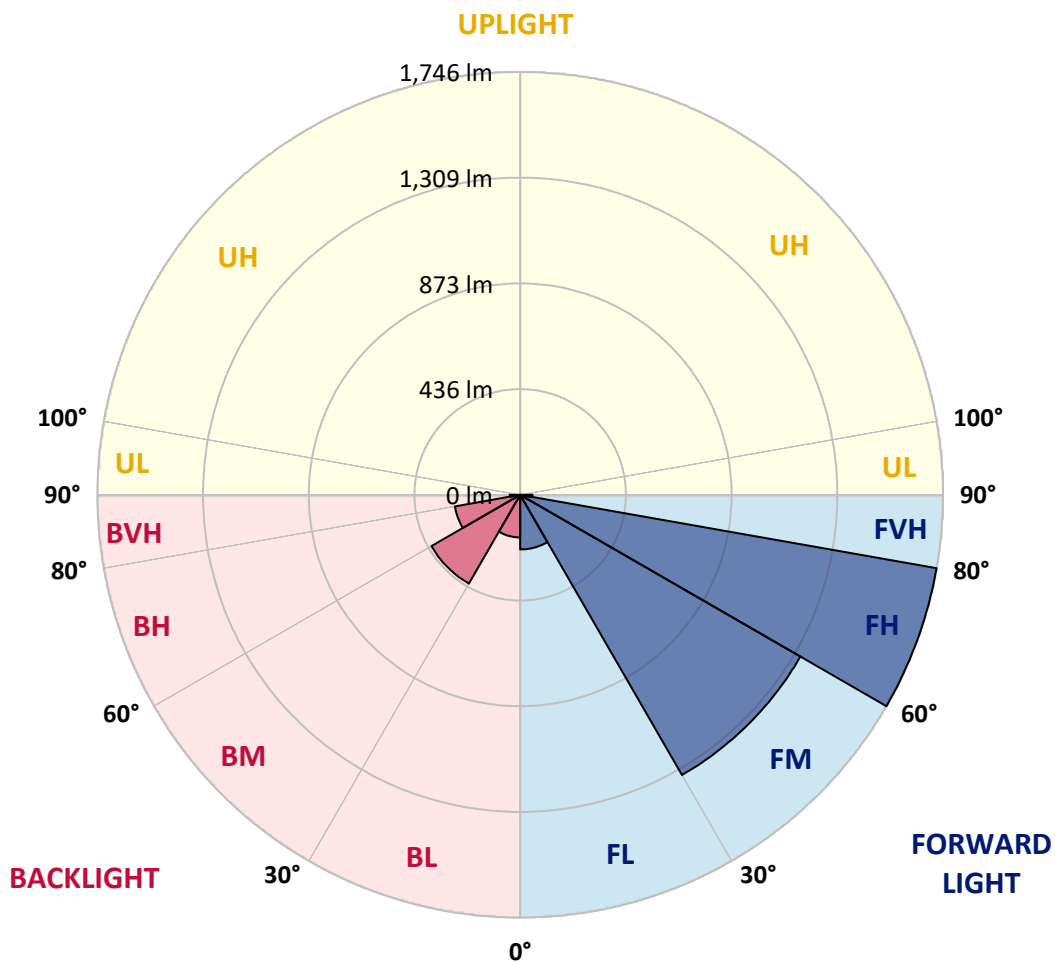
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.6	5.3			
FM	(30°-60°)	1336.1	31.3			
FH	(60°-80°)	1746.0	40.8			G1/1800
FVH	(80°-90°)	51.2	1.2			G1/100
BL	(0°-30°)	175.9	4.1	B1/500		
BM	(30°-60°)	423.3	9.9	B1/1000		
BH	(60°-80°)	273.7	6.4	B1/500		G1/500
BVH	(80°-90°)	43.2	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4
2.5°	539.4	538.3	538.8	536.9	532.2	527.2	527.2	521.9	516.4	510.9	504.8
5°	572.9	571.3	569.9	563.8	554.6	544.4	542.7	532.2	520.8	509.5	498.4
7.5°	600.9	599.2	595.1	584.0	570.7	555.5	553.5	539.7	524.7	508.9	493.4
10°	620.8	619.7	611.7	597.6	582.1	564.1	560.7	546.6	528.9	509.2	489.5
12.5°	631.9	630.3	620.6	603.9	585.7	567.4	564.1	550.5	530.3	508.6	485.7
15°	627.5	626.7	617.5	600.6	582.3	566.5	563.8	549.9	529.4	506.7	482.1
17.5°	608.7	610.6	603.4	586.8	571.8	560.7	557.7	544.7	525.3	502.0	476.5
20°	582.6	584.8	581.2	564.3	555.7	548.5	546.9	536.4	518.3	495.1	469.9
22.5°	554.9	556.9	557.1	541.3	538.6	535.8	534.4	526.9	512.2	490.9	465.4
25°	535.8	538.0	538.6	524.7	526.4	527.2	526.9	521.7	511.1	490.9	466.0
27.5°	530.8	531.9	531.4	518.6	521.7	526.4	526.7	525.5	515.6	496.5	473.7
30°	548.0	548.5	541.6	522.5	525.5	531.6	531.9	531.4	525.0	510.9	491.2
32.5°	622.2	621.7	597.9	548.5	538.0	540.2	541.1	546.0	546.6	534.7	516.4
35°	735.3	735.0	707.3	623.1	573.5	561.8	562.9	570.7	577.6	569.6	559.1
37.5°	859.7	860.5	843.6	729.4	649.9	601.5	600.3	606.2	618.6	621.4	622.8
40°	997.6	1001.8	1000.9	851.6	757.2	669.1	658.0	651.3	675.4	690.7	710.3
42.5°	1155.3	1154.2	1154.7	985.7	879.6	775.4	754.9	723.9	751.9	778.2	821.4
45°	1290.7	1295.2	1298.5	1128.4	1016.7	897.1	876.3	819.8	845.0	884.3	950.2
47.5°	1427.0	1419.3	1425.4	1287.1	1169.4	1035.9	1009.0	932.8	956.3	1011.8	1112.0
50°	1585.8	1582.2	1554.5	1494.4	1353.9	1176.6	1141.4	1050.8	1085.2	1159.1	1311.8
52.5°	1728.2	1708.8	1687.2	1657.3	1535.4	1319.0	1274.4	1173.5	1236.7	1328.4	1559.7
55°	1780.3	1767.2	1793.3	1832.1	1727.3	1464.2	1414.3	1316.8	1407.6	1522.1	1851.5
57.5°	1835.7	1840.1	1898.8	1977.2	1909.1	1619.0	1565.0	1486.3	1595.2	1738.7	2177.5
60°	1863.4	1881.1	1998.3	2145.4	2082.0	1788.8	1737.0	1681.1	1803.3	1978.1	2502.8
62.5°	1868.1	1891.9	2057.9	2204.4	2319.9	2049.0	1989.1	1928.5	2063.1	2242.6	2738.3
65°	1781.6	1818.2	2052.6	2277.0	2536.9	2483.7	2445.7	2339.9	2411.1	2475.6	2778.4
67.5°	1527.6	1567.5	1849.5	2247.1	2710.8	2934.7	2927.5	2771.2	2679.8	2565.7	2480.6
70°	1121.2	1153.3	1424.3	1921.0	2634.9	3288.7	3301.5	3050.8	2754.9	2374.5	1844.5
71°	906.8	934.5	1189.9	1705.5	2487.0	3307.0	3333.6	3063.2	2676.8	2201.9	1544.2
72.5°	564.3	579.8	790.1	1287.1	2141.5	3118.6	3163.5	2903.7	2430.8	1861.2	1091.5
75°	213.0	219.1	293.1	567.7	1278.3	2342.9	2397.2	2194.4	1707.7	1062.4	456.8
77.5°	114.4	117.5	145.4	236.0	512.2	1343.1	1412.9	1251.7	819.2	371.8	186.7
80°	76.7	78.7	100.6	139.9	235.5	511.4	569.6	502.6	306.7	212.2	133.0
82.5°	49.6	50.7	68.4	92.0	152.1	179.8	205.3	214.4	191.4	152.1	80.3
85°	32.7	33.5	45.2	58.7	94.2	88.7	90.9	118.9	130.5	100.3	41.0
87.5°	18.8	19.4	27.1	30.2	42.4	33.2	36.0	56.5	77.6	65.4	23.5
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°	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4	508.4
2.5°	502.0	499.8	494.8	491.7	490.4	489.8	489.3	490.4	490.4	489.8	488.7
5°	492.9	488.7	480.4	474.6	471.5	470.7	471.8	473.2	474.0	474.0	473.2
7.5°	486.2	480.1	469.0	461.0	456.3	454.9	457.9	462.9	466.3	467.9	468.2
10°	480.7	472.4	460.2	451.9	448.0	447.4	451.3	457.7	464.6	467.6	468.2
12.5°	475.7	466.3	453.0	445.2	442.4	443.8	449.1	454.9	462.9	467.4	467.6
15°	471.0	461.3	447.1	439.1	438.6	440.8	445.8	450.5	456.6	462.1	462.1
17.5°	465.4	454.9	440.2	432.7	432.7	434.7	438.0	440.5	444.4	449.6	449.4
20°	458.8	448.0	433.0	425.3	423.6	422.5	422.5	423.0	426.4	431.1	431.9
22.5°	453.8	442.7	426.9	417.5	410.0	402.8	399.8	398.7	401.7	406.1	407.2
25°	453.8	442.7	425.0	409.2	390.9	377.1	371.2	369.6	372.6	376.8	378.4
27.5°	461.3	450.2	429.4	401.7	368.2	346.0	339.1	337.7	340.5	343.8	345.5
30°	478.7	467.9	442.2	393.1	343.0	313.9	306.1	304.7	306.1	307.5	309.5
32.5°	507.8	498.7	462.9	385.4	317.5	284.8	275.4	273.2	273.7	274.0	275.7
35°	555.2	551.0	490.6	376.2	293.4	261.0	251.3	246.8	246.6	248.0	249.9
37.5°	627.8	630.3	526.4	362.9	273.4	244.1	234.4	229.9	227.7	230.5	232.7
40°	730.3	736.1	567.7	344.9	257.1	234.1	223.8	219.7	216.6	215.8	216.9
42.5°	863.5	861.9	609.8	321.9	239.4	227.5	216.6	212.2	207.2	200.9	199.5
45°	1021.4	997.6	645.0	293.7	219.1	221.1	210.0	203.9	196.1	186.7	185.6
47.5°	1207.9	1142.2	666.6	263.5	200.3	212.8	202.5	193.1	181.7	175.6	174.8
50°	1432.6	1311.5	681.8	232.7	183.4	202.2	192.0	179.5	168.4	166.8	166.5
52.5°	1698.5	1511.3	700.6	205.0	170.1	188.7	181.5	168.7	159.9	160.7	160.7
55°	1981.4	1717.9	701.2	183.1	158.5	172.9	173.7	163.5	156.5	159.3	160.1
57.5°	2239.3	1898.6	646.1	167.6	147.4	160.4	171.2	165.4	160.1	169.8	170.7
60°	2464.3	2037.6	527.5	154.9	138.2	155.7	176.8	177.3	176.2	202.5	204.5
62.5°	2546.6	2039.0	374.6	144.1	133.3	158.5	188.4	189.2	189.2	213.6	217.2
65°	2431.3	1869.2	249.3	137.7	129.9	164.6	197.8	194.2	185.6	202.5	198.6
67.5°	2025.2	1455.0	182.3	133.5	125.2	164.8	206.1	197.0	182.3	196.7	190.0
70°	1391.9	925.9	152.6	129.7	119.7	157.6	210.6	196.1	177.3	183.4	174.5
71°	1120.4	738.9	144.9	128.3	117.5	153.5	211.1	195.0	174.8	178.7	170.7
72.5°	738.0	455.2	135.5	125.2	114.1	146.3	209.7	192.5	171.5	171.8	166.5
75°	291.2	188.7	121.9	118.3	104.7	134.6	203.6	187.3	165.1	159.6	157.4
77.5°	147.1	123.3	107.2	108.6	93.6	122.7	195.0	178.7	156.3	148.8	147.1
80°	107.5	93.6	91.7	94.2	81.2	111.1	184.2	167.1	144.9	152.6	149.3
82.5°	65.4	57.1	71.8	77.8	67.9	99.2	171.5	153.5	130.5	120.2	116.4
85°	31.0	33.5	51.8	57.3	50.1	79.2	156.8	138.5	113.9	98.3	100.0
87.5°	15.2	18.6	29.6	34.4	33.0	58.2	118.3	107.5	89.8	74.0	72.3
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)