

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: P236855

Luminaire Tested: **ARCH-L-AF72-220-D-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-220-D-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26832 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B3 - U0 - G3

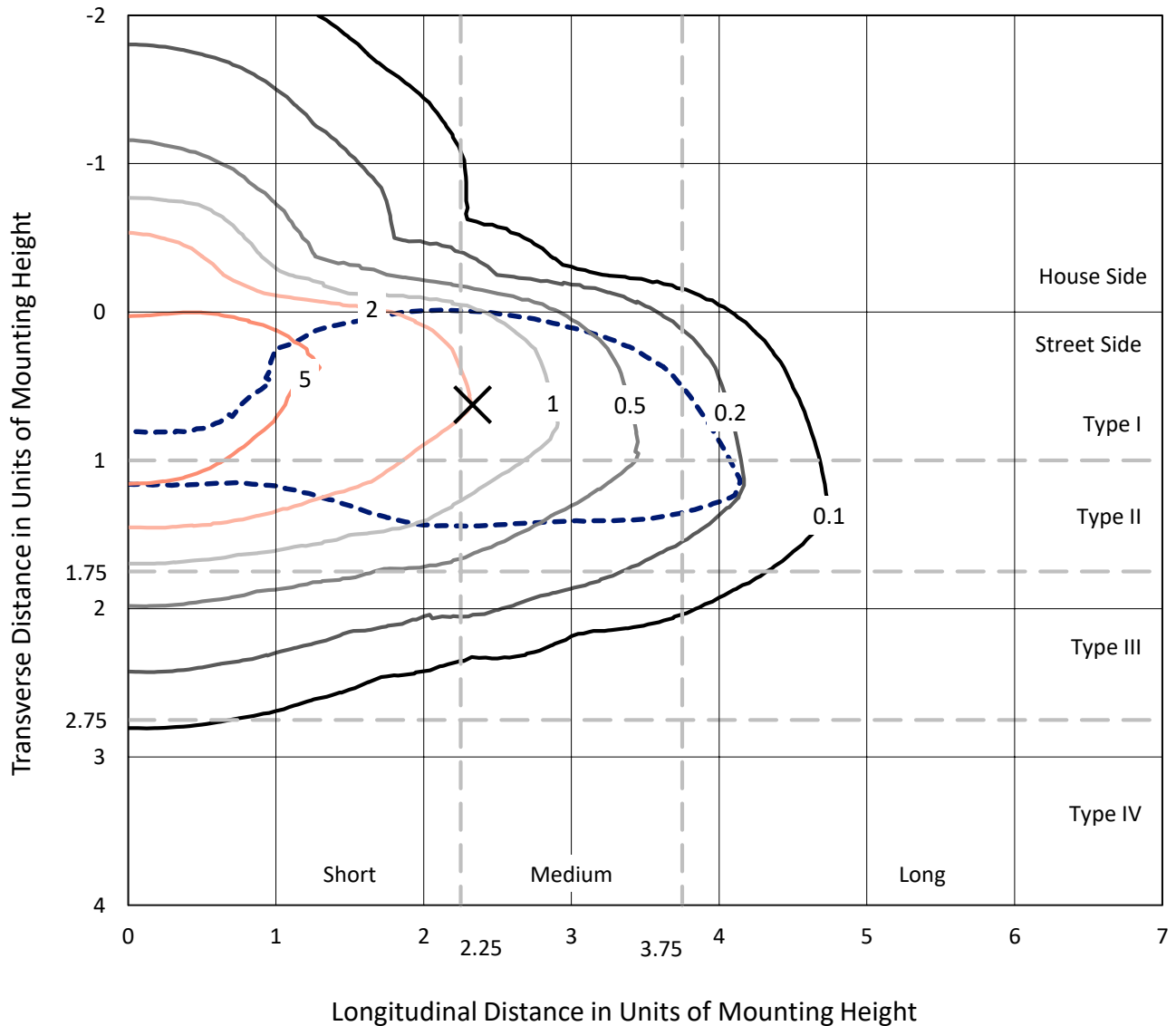
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

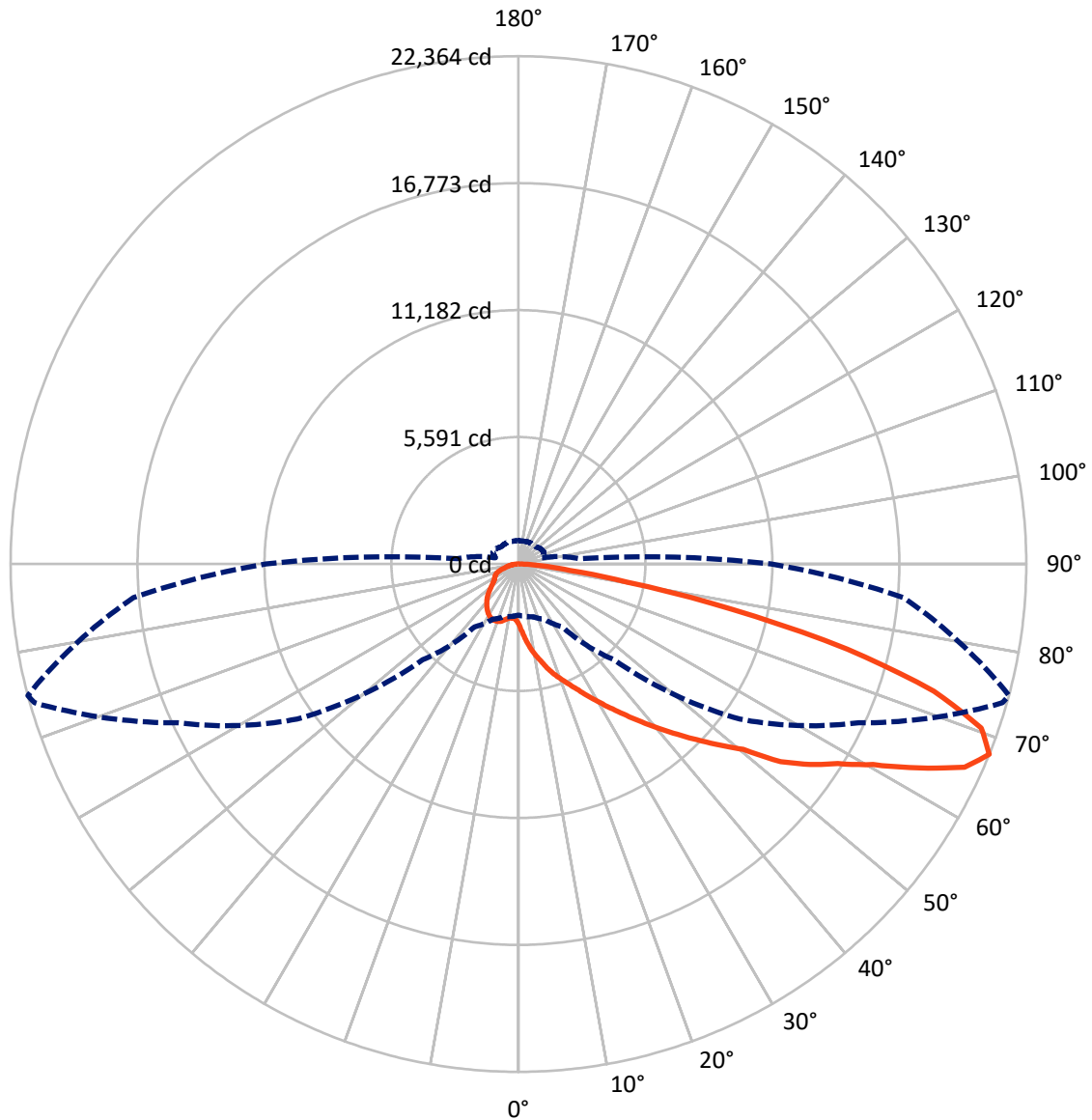


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4581.9	0.0	4581.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	22250.1	0.0	22250.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	26832.0	0.0	26832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.4	1.2
10°-20°	1128.8	4.2
20°-30°	2058.8	7.7
30°-40°	3379.4	12.6
40°-50°	4887.1	18.2
50°-60°	5759.4	21.5
60°-70°	5596.8	20.9
70°-80°	3111.0	11.6
80°-90°	598.2	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°	26832.0	100.0
0°-180°	26832.0	100.0

Coefficient of Utilization



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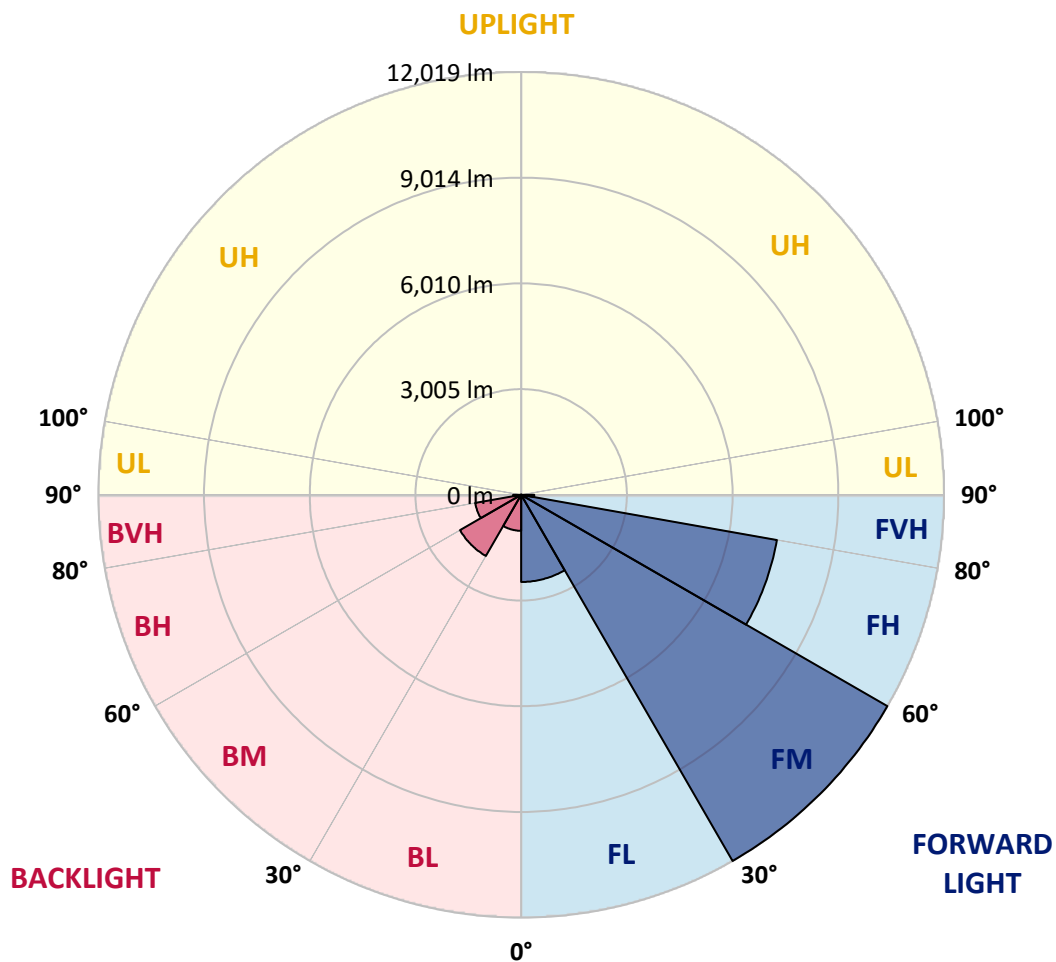
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2477.3	9.2			
FM (30°-60°)	12019.3	44.8			
FH (60°-80°)	7381.2	27.5			G3/7500
FVH (80°-90°)	372.3	1.4			G3/500
BL (0°-30°)	1022.7	3.8	B3/2500		
BM (30°-60°)	2006.6	7.5	B2/2500		
BH (60°-80°)	1326.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	225.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8
2.5°	3769.5	3780.6	3758.2	3707.7	3634.7	3500.1	3382.4	3174.8	2989.8	2967.3	2771.0
5°	4431.3	4442.6	4414.4	4352.8	4274.3	4128.4	3965.8	3696.5	3399.2	3343.1	2928.0
7.5°	4885.6	4891.2	4857.6	4795.9	4734.2	4588.3	4425.7	4122.8	3758.2	3713.3	3129.9
10°	5272.7	5284.0	5239.0	5199.8	5132.5	4986.7	4818.3	4498.6	4122.8	4061.1	3337.5
12.5°	5631.7	5642.9	5614.9	5581.2	5558.8	5424.2	5239.0	4857.6	4453.7	4386.4	3584.3
15°	5872.9	5884.1	5889.7	5934.5	5962.7	5867.2	5682.2	5267.1	4812.8	4751.0	3876.0
17.5°	5805.6	5833.6	5917.8	6080.4	6254.3	6259.9	6108.4	5670.9	5166.1	5098.8	4173.3
20°	5609.2	5631.7	5732.6	5979.5	6321.6	6517.9	6506.8	6080.4	5497.0	5424.2	4448.1
22.5°	5771.9	5799.9	5799.9	5951.4	6288.0	6652.6	6798.4	6484.3	5828.1	5760.7	4723.0
25°	6467.5	6484.3	6366.5	6304.9	6428.2	6764.8	7039.6	6921.8	6231.9	6153.4	5020.3
27.5°	7437.9	7409.8	7264.0	7017.1	6882.5	6972.3	7252.7	7336.9	6697.5	6602.1	5328.8
30°	8402.6	8385.8	8217.6	7886.6	7583.7	7393.0	7488.4	7707.1	7202.3	7090.1	5626.1
32.5°	9305.8	9277.8	9092.6	8705.6	8363.4	8010.0	7825.0	8043.7	7740.8	7611.8	5957.1
35°	10135.9	10063.0	9877.9	9474.1	9120.6	8784.1	8329.8	8363.4	8324.2	8189.5	6321.6
37.5°	10809.0	10753.0	10551.0	10175.2	9799.4	9479.7	9002.9	8728.0	8952.4	8823.4	6742.4
40°	11403.7	11342.0	11134.4	10758.6	10410.8	10107.9	9732.0	9171.2	9659.1	9513.3	7213.5
42.5°	11852.3	11807.5	11639.2	11269.0	10932.5	10657.6	10472.5	9732.0	10394.0	10253.8	7729.5
45°	12093.5	12048.7	11958.9	11661.6	11353.1	11140.0	11156.8	10399.5	11162.4	11044.6	8340.9
47.5°	11796.3	11829.9	11908.5	11852.3	11661.6	11560.7	11768.2	11089.5	12020.6	11908.5	9002.9
50°	10999.8	11033.4	11347.5	11734.6	11801.9	11925.3	12318.0	11886.0	12929.4	12839.6	9821.8
52.5°	9042.2	9227.2	10096.6	11022.2	11656.0	12166.5	12929.4	13069.5	14460.6	14460.6	11269.0
55°	6832.1	6994.7	7987.6	9603.1	11089.5	12188.9	13378.0	13871.7	15565.7	15588.1	12026.2
57.5°	5536.3	5637.3	6125.3	7780.1	9900.3	11908.5	13911.0	14561.6	16485.6	16586.5	13002.2
60°	4493.0	4549.1	4868.8	6018.7	8256.8	11151.2	14292.4	15548.9	17798.2	17938.4	14247.6
62.5°	3612.3	3668.4	3881.6	4571.6	6478.7	9732.0	14225.1	16575.4	19548.3	19778.2	15879.8
65°	2883.2	2944.9	3085.1	3511.4	4801.5	7970.7	13535.2	17102.6	21360.0	21584.5	16962.4
67.5°	2249.3	2305.4	2400.8	2681.3	3382.4	5962.7	11902.9	16547.4	22173.4	22364.2	17018.5
70°	1699.6	1727.7	1806.2	1985.6	2417.5	3960.1	9316.9	14685.1	21444.2	21618.1	15896.7
72.5°	1318.2	1312.5	1357.5	1447.2	1688.4	2726.1	6175.8	11942.1	18959.3	19138.8	13563.2
75°	1077.0	1071.3	1099.4	1127.5	1222.8	1828.6	3646.0	8991.6	15302.0	14959.9	10175.2
77.5°	908.7	903.1	931.1	936.7	976.0	1262.1	2075.5	5917.8	10208.8	9619.8	5732.6
80°	768.4	762.8	796.5	807.7	835.8	925.6	1194.8	3202.9	5126.8	4857.6	2737.3
82.5°	577.8	600.2	661.8	690.0	723.6	684.4	740.4	1413.5	2378.4	2271.8	1189.2
85°	280.5	330.9	499.2	555.4	594.5	431.9	504.8	667.5	1071.3	1020.9	482.4
87.5°	95.3	84.2	297.3	353.4	387.1	196.3	280.5	370.2	443.1	403.9	151.5
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°	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8	2658.8
2.5°	2686.9	2602.7	2479.3	2383.9	2322.2	2271.8	2249.3	2243.7	2232.5	2226.9	2226.9
5°	2742.9	2591.4	2400.8	2299.8	2271.8	2249.3	2260.5	2266.1	2266.1	2266.1	2266.1
7.5°	2827.0	2613.9	2383.9	2316.6	2311.1	2311.1	2344.7	2361.5	2372.7	2372.7	2372.7
10°	2939.2	2653.2	2412.0	2355.9	2372.7	2383.9	2423.2	2445.7	2456.8	2462.4	2468.1
12.5°	3090.7	2737.3	2468.1	2423.2	2445.7	2451.2	2479.3	2490.5	2501.7	2507.4	2507.4
15°	3292.7	2860.7	2557.8	2501.7	2507.4	2501.7	2501.7	2490.5	2485.0	2485.0	2496.1
17.5°	3500.1	2978.5	2636.3	2557.8	2535.4	2490.5	2456.8	2428.8	2412.0	2400.8	2406.4
20°	3707.7	3085.1	2681.3	2569.0	2507.4	2434.4	2372.7	2333.5	2311.1	2288.5	2299.8
22.5°	3915.2	3186.1	2698.0	2535.4	2445.7	2339.1	2271.8	2210.1	2159.6	2125.9	2131.5
25°	4145.2	3298.2	2698.0	2496.1	2361.5	2249.3	2165.2	2064.2	1991.3	1963.2	1974.5
27.5°	4375.3	3393.6	2670.0	2423.2	2266.1	2153.9	2030.6	1912.7	1867.9	1851.0	1856.7
30°	4605.2	3466.5	2608.3	2333.5	2165.2	2041.8	1879.1	1800.6	1744.4	1699.6	1705.3
32.5°	4835.2	3517.0	2524.1	2221.2	2058.6	1901.6	1766.9	1677.1	1576.2	1520.1	1525.7
35°	5098.8	3556.3	2423.2	2109.1	1940.8	1778.1	1677.1	1531.4	1424.8	1379.9	1368.7
37.5°	5373.7	3584.3	2316.6	1985.6	1823.0	1688.4	1587.4	1407.9	1306.9	1245.2	1239.6
40°	5670.9	3595.6	2187.6	1856.7	1710.8	1632.3	1469.7	1335.1	1161.2	1121.9	1121.9
42.5°	6024.4	3589.9	2058.6	1727.7	1587.4	1503.3	1385.5	1323.8	1172.3	1133.0	1110.6
45°	6428.2	3589.9	1918.3	1576.2	1464.0	1340.6	1290.1	1250.9	1149.9	1166.7	1177.9
47.5°	6888.1	3578.7	1750.1	1452.8	1363.1	1256.5	1228.5	1144.3	1105.0	1116.2	1127.5
50°	7522.1	3595.6	1598.7	1351.8	1290.1	1200.3	1166.7	1121.9	1105.0	1110.6	1105.0
52.5°	8402.6	3539.4	1452.8	1290.1	1234.0	1116.2	1116.2	1110.6	1116.2	1110.6	1110.6
55°	8885.0	3416.0	1346.2	1256.5	1194.8	1077.0	1099.4	1110.6	1121.9	1116.2	1116.2
57.5°	9569.4	3331.9	1262.1	1234.0	1172.3	1065.7	1088.2	1110.6	1116.2	1110.6	1110.6
60°	10377.1	3275.8	1206.0	1239.6	1155.5	1065.7	1093.8	1110.6	1105.0	1099.4	1099.4
62.5°	11313.8	3253.4	1166.7	1256.5	1138.6	1071.3	1093.8	1110.6	1088.2	1082.6	1082.6
65°	11667.3	3051.5	1116.2	1267.7	1149.9	1071.3	1088.2	1093.8	1065.7	1060.2	1054.6
67.5°	11123.2	2703.7	1043.3	1245.2	1183.6	1071.3	1071.3	1065.7	1032.1	1026.5	1015.3
70°	9905.9	2243.7	931.1	1172.3	1206.0	1077.0	1048.9	1020.9	987.2	987.2	964.7
72.5°	8111.0	1766.9	785.3	1043.3	1189.2	1093.8	1004.0	964.7	925.6	925.6	903.1
75°	5844.8	1318.2	628.2	869.4	1116.2	1088.2	948.0	897.4	852.6	847.0	819.0
77.5°	3331.9	925.6	510.5	678.7	992.9	1060.2	897.4	819.0	768.4	751.7	734.8
80°	1710.8	622.7	415.1	532.9	824.6	981.6	858.3	729.2	673.1	645.1	617.0
82.5°	813.3	415.1	319.8	392.6	622.7	858.3	807.7	628.2	566.5	532.9	499.2
85°	364.6	246.8	213.2	252.5	443.1	667.5	712.4	516.1	443.1	555.4	409.5
87.5°	117.8	112.2	112.2	117.8	213.2	291.6	521.7	381.5	353.4	291.6	246.8
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)