

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: P236836

Luminaire Tested: **ARCH-L-AF72-230-D-U-T2R-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-230-D-U-T2R-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26004.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

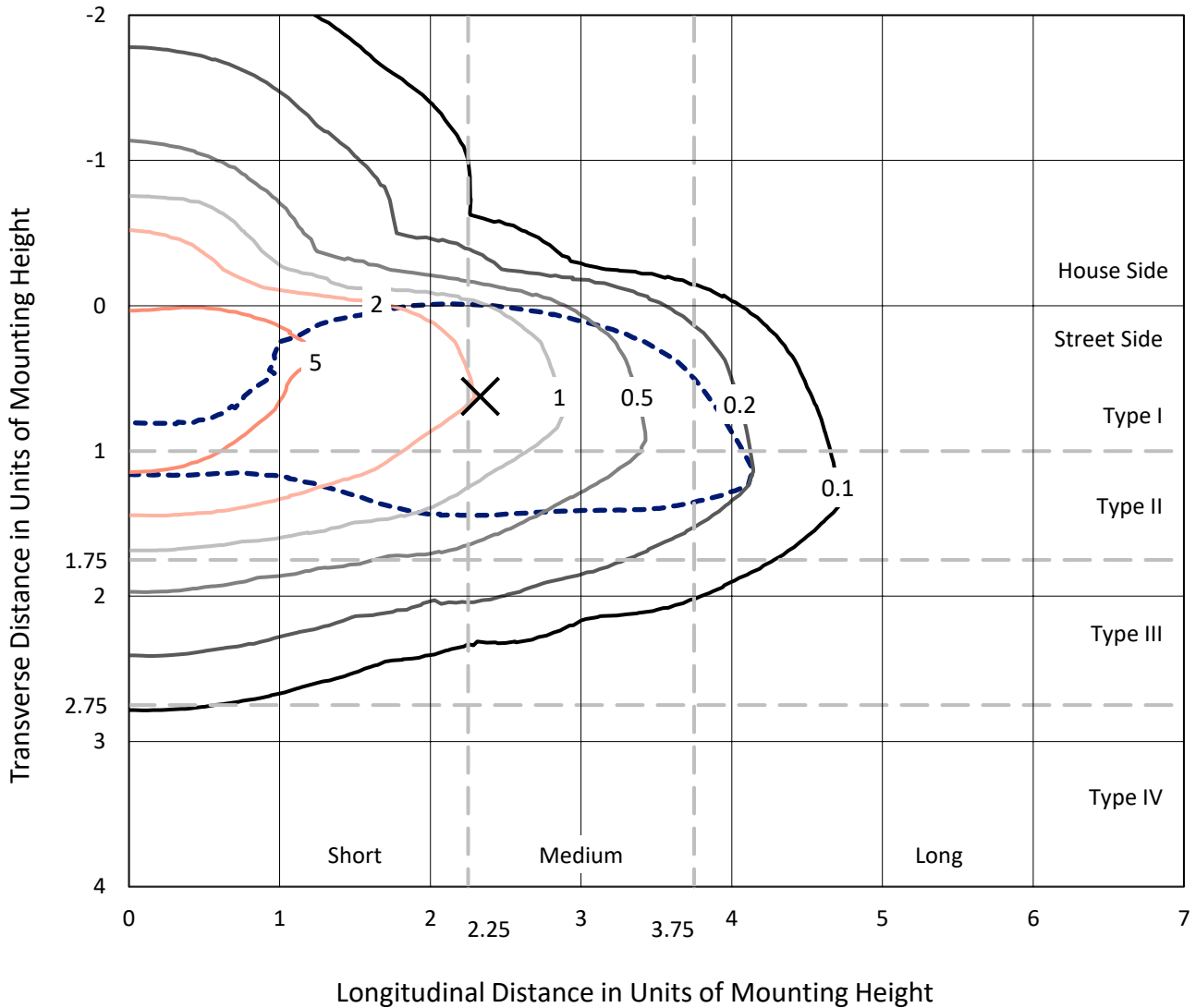
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

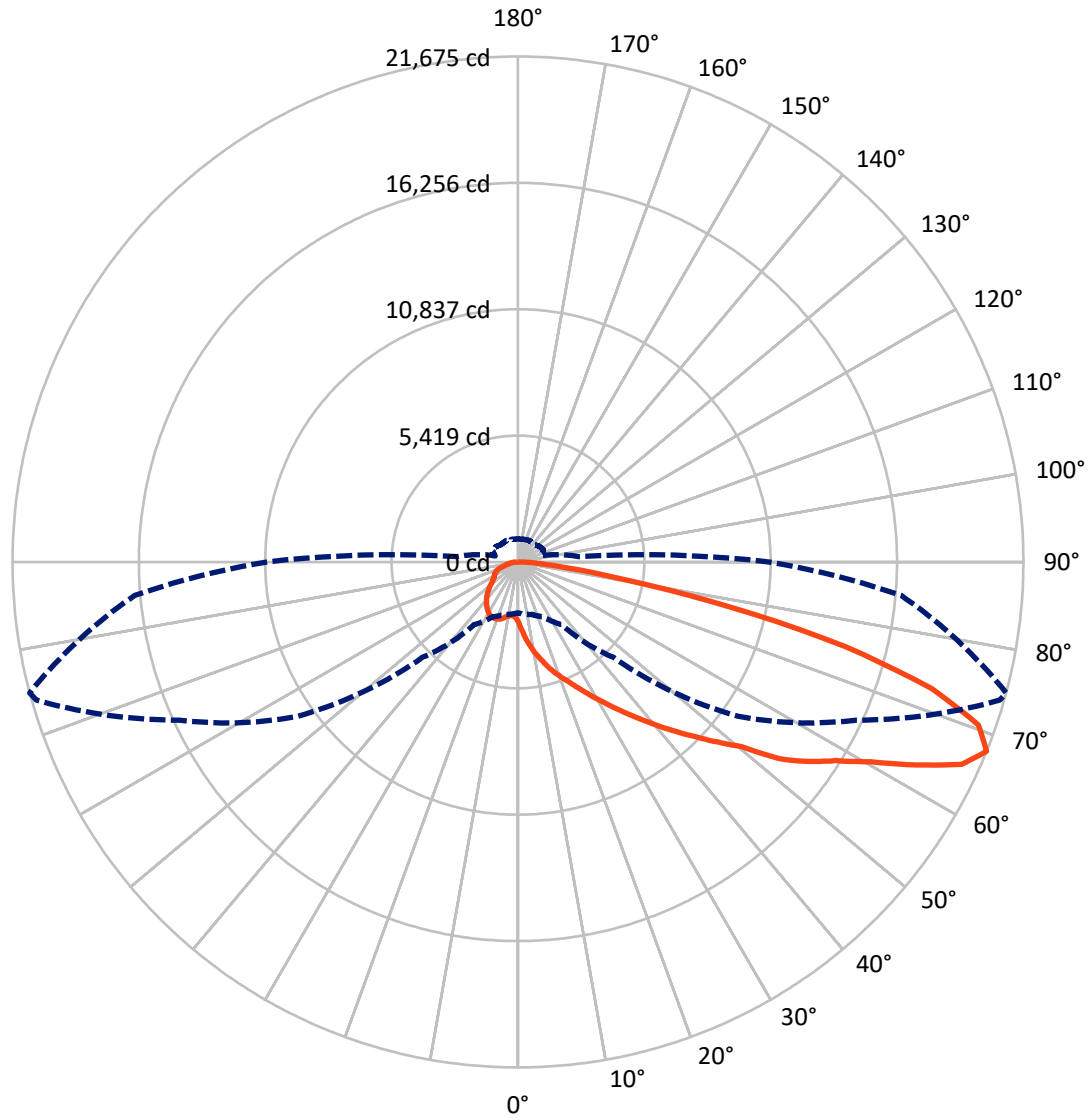
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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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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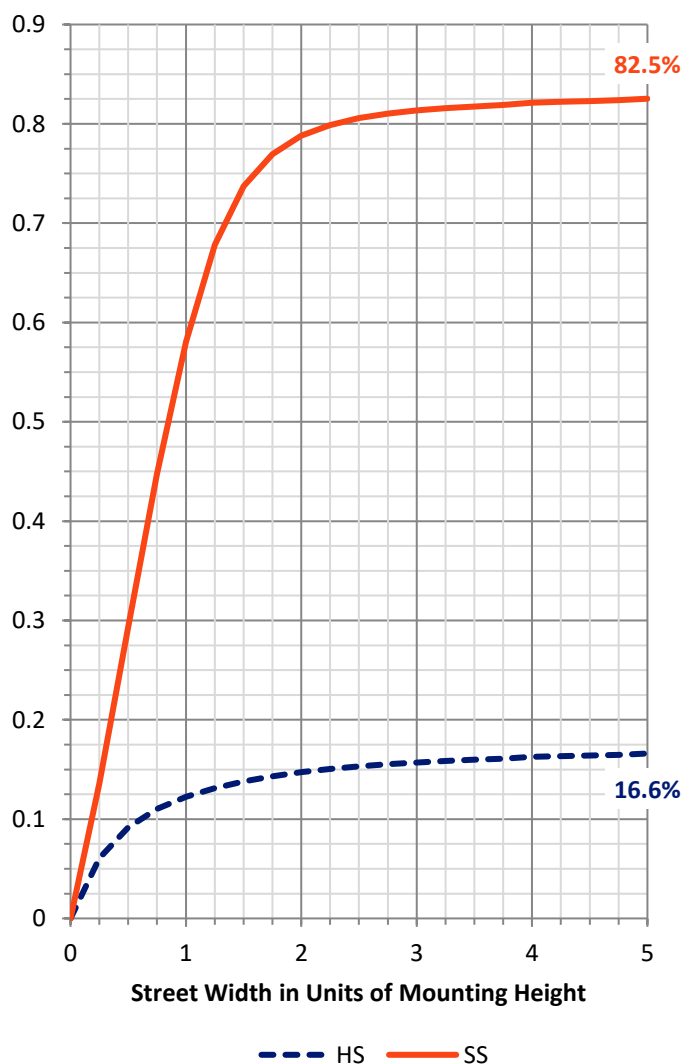
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4440.7	0.0	4440.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	21564.1	0.0	21564.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	26004.8	0.0	26004.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	1.2
10°-20°	1094.0	4.2
20°-30°	1995.4	7.7
30°-40°	3275.2	12.6
40°-50°	4736.4	18.2
50°-60°	5581.9	21.5
60°-70°	5424.3	20.9
70°-80°	3015.1	11.6
80°-90°	579.8	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°	26004.8	100.0
0°-180°	26004.8	100.0

Coefficient of Utilization



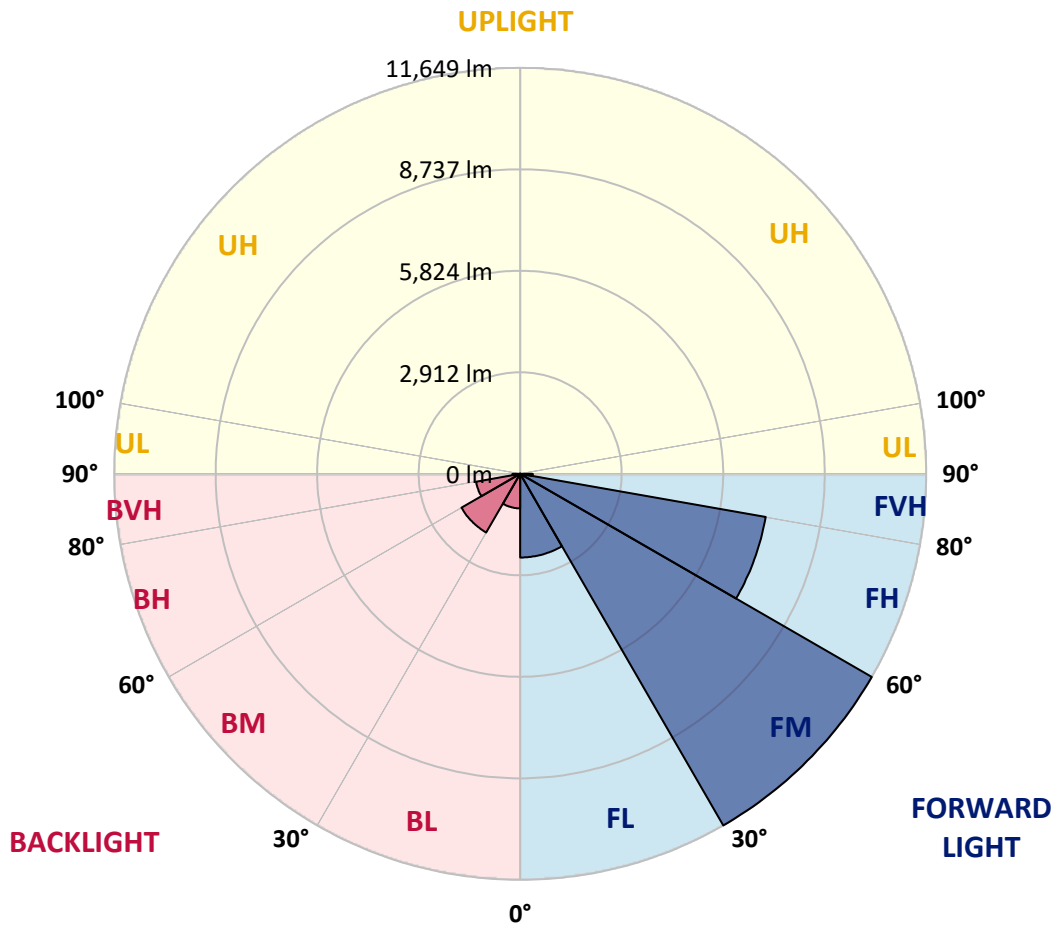
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2400.9	9.2			
FM (30°-60°)	11648.8	44.8			
FH (60°-80°)	7153.6	27.5			G3/7500
FVH (80°-90°)	360.8	1.4			G3/500
BL (0°-30°)	991.2	3.8	B2/1000		
BM (30°-60°)	1944.8	7.5	B2/2500		
BH (60°-80°)	1285.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	218.9	0.8			G2/225
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°	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8
2.5°	3653.2	3664.1	3642.3	3593.4	3522.7	3392.3	3278.1	3077.0	2897.5	2875.8	2685.6
5°	4294.7	4305.6	4278.4	4218.6	4142.4	4001.2	3843.5	3582.5	3294.3	3240.1	2837.8
7.5°	4735.1	4740.4	4707.9	4648.1	4588.3	4447.0	4289.3	3995.7	3642.3	3598.9	3033.5
10°	5110.2	5121.0	5077.5	5039.5	4974.2	4832.9	4669.8	4360.0	3995.7	3935.9	3234.6
12.5°	5458.0	5469.0	5441.7	5409.1	5387.3	5256.9	5077.5	4707.9	4316.4	4251.2	3473.8
15°	5691.9	5702.7	5708.1	5751.6	5778.8	5686.4	5507.0	5104.7	4664.4	4604.6	3756.6
17.5°	5626.7	5653.7	5735.3	5893.0	6061.4	6066.9	5920.2	5496.2	5006.8	4941.6	4044.7
20°	5436.3	5458.0	5556.0	5795.1	6126.7	6317.1	6306.1	5893.0	5327.6	5256.9	4311.1
22.5°	5594.0	5621.2	5621.2	5767.9	6094.2	6447.5	6588.9	6284.4	5648.3	5583.1	4577.4
25°	6268.1	6284.4	6170.2	6110.5	6230.1	6556.2	6822.5	6708.4	6039.8	5963.7	4865.6
27.5°	7208.6	7181.4	7040.0	6800.9	6670.4	6757.3	7029.2	7110.7	6491.0	6398.6	5164.4
30°	8143.6	8127.4	7964.2	7643.4	7349.9	7165.1	7257.5	7469.5	6980.2	6871.6	5452.7
32.5°	9019.0	8991.7	8812.3	8437.2	8105.6	7763.1	7583.6	7795.6	7502.2	7377.0	5773.4
35°	9823.5	9752.8	9573.4	9181.9	8839.5	8513.3	8072.9	8105.6	8067.4	7937.0	6126.7
37.5°	10475.8	10421.4	10225.7	9861.5	9497.3	9187.4	8725.3	8459.0	8676.4	8551.4	6534.5
40°	11052.0	10992.2	10791.1	10426.8	10089.9	9796.3	9432.1	8888.4	9361.4	9220.1	6991.2
42.5°	11487.0	11443.5	11280.4	10921.5	10595.4	10329.1	10149.6	9432.1	10073.4	9937.5	7491.3
45°	11720.7	11677.2	11590.2	11302.1	11003.2	10796.6	10812.9	10078.9	10818.3	10704.1	8083.9
47.5°	11432.6	11465.2	11541.3	11487.0	11302.1	11204.3	11405.5	10747.7	11650.1	11541.3	8725.3
50°	10660.7	10693.3	10997.7	11372.8	11438.1	11557.7	11938.2	11519.5	12530.7	12443.7	9519.0
52.5°	8763.3	8942.8	9785.4	10682.4	11296.7	11791.4	12530.7	12666.7	14014.9	14014.9	10921.5
55°	6621.4	6779.1	7741.3	9307.0	10747.7	11813.1	12965.7	13444.1	15085.9	15107.6	11655.4
57.5°	5365.6	5463.5	5936.5	7540.2	9595.1	11541.3	13482.0	14112.7	15977.4	16075.2	12601.4
60°	4354.5	4408.8	4718.7	5833.2	8002.2	10807.4	13851.8	15069.5	17249.6	17385.4	13808.3
62.5°	3501.0	3555.4	3761.9	4430.6	6278.9	9432.1	13786.6	16064.4	18945.5	19168.6	15390.3
65°	2794.3	2854.1	2990.0	3403.1	4653.5	7725.0	13117.8	16575.4	20701.6	20919.0	16439.4
67.5°	2179.9	2234.4	2326.7	2598.5	3278.1	5778.8	11535.9	16037.2	21489.7	21674.7	16493.8
70°	1647.2	1674.4	1750.6	1924.5	2343.1	3838.1	9029.7	14232.3	20783.1	20951.7	15406.5
72.5°	1277.6	1272.1	1315.6	1402.6	1636.3	2642.1	5985.4	11574.0	18374.7	18548.7	13145.1
75°	1043.8	1038.3	1065.5	1092.7	1185.1	1772.3	3533.7	8714.4	14830.3	14498.7	9861.5
77.5°	880.7	875.2	902.5	907.8	945.9	1223.1	2011.5	5735.3	9894.1	9323.3	5556.0
80°	744.8	739.3	771.9	782.9	810.0	897.0	1157.9	3104.2	4968.8	4707.9	2653.0
82.5°	560.0	581.7	641.5	668.6	701.3	663.2	717.7	1370.0	2305.1	2201.7	1152.4
85°	271.8	320.7	483.8	538.2	576.3	418.6	489.3	647.0	1038.3	989.5	467.5
87.5°	92.5	81.5	288.1	342.5	375.1	190.2	271.8	358.8	429.5	391.3	146.7
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°	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8	2576.8
2.5°	2603.9	2522.5	2402.8	2310.4	2250.6	2201.7	2179.9	2174.5	2163.7	2158.2	2158.2
5°	2658.4	2511.6	2326.7	2228.9	2201.7	2179.9	2190.8	2196.3	2196.3	2196.3	2196.3
7.5°	2739.9	2533.2	2310.4	2245.2	2239.9	2239.9	2272.4	2288.7	2299.6	2299.6	2299.6
10°	2848.6	2571.4	2337.6	2283.3	2299.6	2310.4	2348.5	2370.3	2381.1	2386.5	2392.0
12.5°	2995.5	2653.0	2392.0	2348.5	2370.3	2375.7	2402.8	2413.7	2424.6	2430.0	2430.0
15°	3191.1	2772.6	2479.0	2424.6	2430.0	2424.6	2424.6	2413.7	2408.3	2408.3	2419.2
17.5°	3392.3	2886.7	2555.0	2479.0	2457.2	2413.7	2381.1	2353.9	2337.6	2326.7	2332.1
20°	3593.4	2990.0	2598.5	2489.8	2430.0	2359.4	2299.6	2261.5	2239.9	2218.1	2228.9
22.5°	3794.6	3087.8	2614.9	2457.2	2370.3	2266.9	2201.7	2141.9	2093.0	2060.4	2065.8
25°	4017.5	3196.6	2614.9	2419.2	2288.7	2179.9	2098.5	2000.5	1929.8	1902.7	1913.5
27.5°	4240.4	3289.0	2587.7	2348.5	2196.3	2087.5	1968.0	1853.8	1810.3	1794.0	1799.4
30°	4463.2	3359.6	2527.9	2261.5	2098.5	1978.8	1821.2	1745.1	1690.7	1647.2	1652.6
32.5°	4686.1	3408.6	2446.4	2152.7	1995.2	1842.8	1712.4	1625.4	1527.7	1473.3	1478.8
35°	4941.6	3446.6	2348.5	2044.0	1881.0	1723.3	1625.4	1484.1	1380.8	1337.4	1326.5
37.5°	5208.0	3473.8	2245.2	1924.5	1766.8	1636.3	1538.5	1364.5	1266.7	1206.9	1201.5
40°	5496.2	3484.8	2120.1	1799.4	1658.1	1582.0	1424.3	1293.8	1125.4	1087.2	1087.2
42.5°	5838.6	3479.3	1995.2	1674.4	1538.5	1457.0	1342.8	1282.9	1136.2	1098.2	1076.4
45°	6230.1	3479.3	1859.3	1527.7	1418.8	1299.3	1250.4	1212.3	1114.5	1130.8	1141.6
47.5°	6675.8	3468.3	1696.1	1408.1	1321.1	1217.7	1190.6	1109.0	1071.0	1081.7	1092.7
50°	7290.1	3484.8	1549.4	1310.1	1250.4	1163.4	1130.8	1087.2	1071.0	1076.4	1071.0
52.5°	8143.6	3430.3	1408.1	1250.4	1196.0	1081.7	1081.7	1076.4	1081.7	1076.4	1076.4
55°	8611.2	3310.8	1304.7	1217.7	1157.9	1043.8	1065.5	1076.4	1087.2	1081.7	1081.7
57.5°	9274.4	3229.1	1223.1	1196.0	1136.2	1032.9	1054.7	1076.4	1081.7	1076.4	1076.4
60°	10057.2	3174.8	1168.8	1201.5	1119.9	1032.9	1060.1	1076.4	1071.0	1065.5	1065.5
62.5°	10965.0	3153.1	1130.8	1217.7	1103.6	1038.3	1060.1	1076.4	1054.7	1049.2	1049.2
65°	11307.6	2957.3	1081.7	1228.6	1114.5	1038.3	1054.7	1060.1	1032.9	1027.5	1022.0
67.5°	10780.3	2620.4	1011.2	1206.9	1147.1	1038.3	1038.3	1032.9	1000.3	994.8	984.0
70°	9600.6	2174.5	902.5	1136.2	1168.8	1043.8	1016.5	989.5	956.8	956.8	935.0
72.5°	7860.9	1712.4	761.1	1011.2	1152.4	1060.1	973.1	935.0	897.0	897.0	875.2
75°	5664.6	1277.6	608.9	842.6	1081.7	1054.7	918.8	869.8	826.3	820.9	793.7
77.5°	3229.1	897.0	494.7	657.8	962.2	1027.5	869.8	793.7	744.8	728.4	712.2
80°	1658.1	603.4	402.3	516.5	799.1	951.3	831.8	706.7	652.4	625.2	597.9
82.5°	788.3	402.3	309.9	380.6	603.4	831.8	782.9	608.9	549.0	516.5	483.8
85°	353.4	239.2	206.6	244.6	429.5	647.0	690.4	500.2	429.5	538.2	396.8
87.5°	114.1	108.7	108.7	114.1	206.6	282.7	505.6	369.7	342.5	282.7	239.2
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)