

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: P399922

Luminaire Tested: **ARCH-L-PA3-210-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-210-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27424 lumens
Efficiency: N/A
Efficacy: 130.0 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

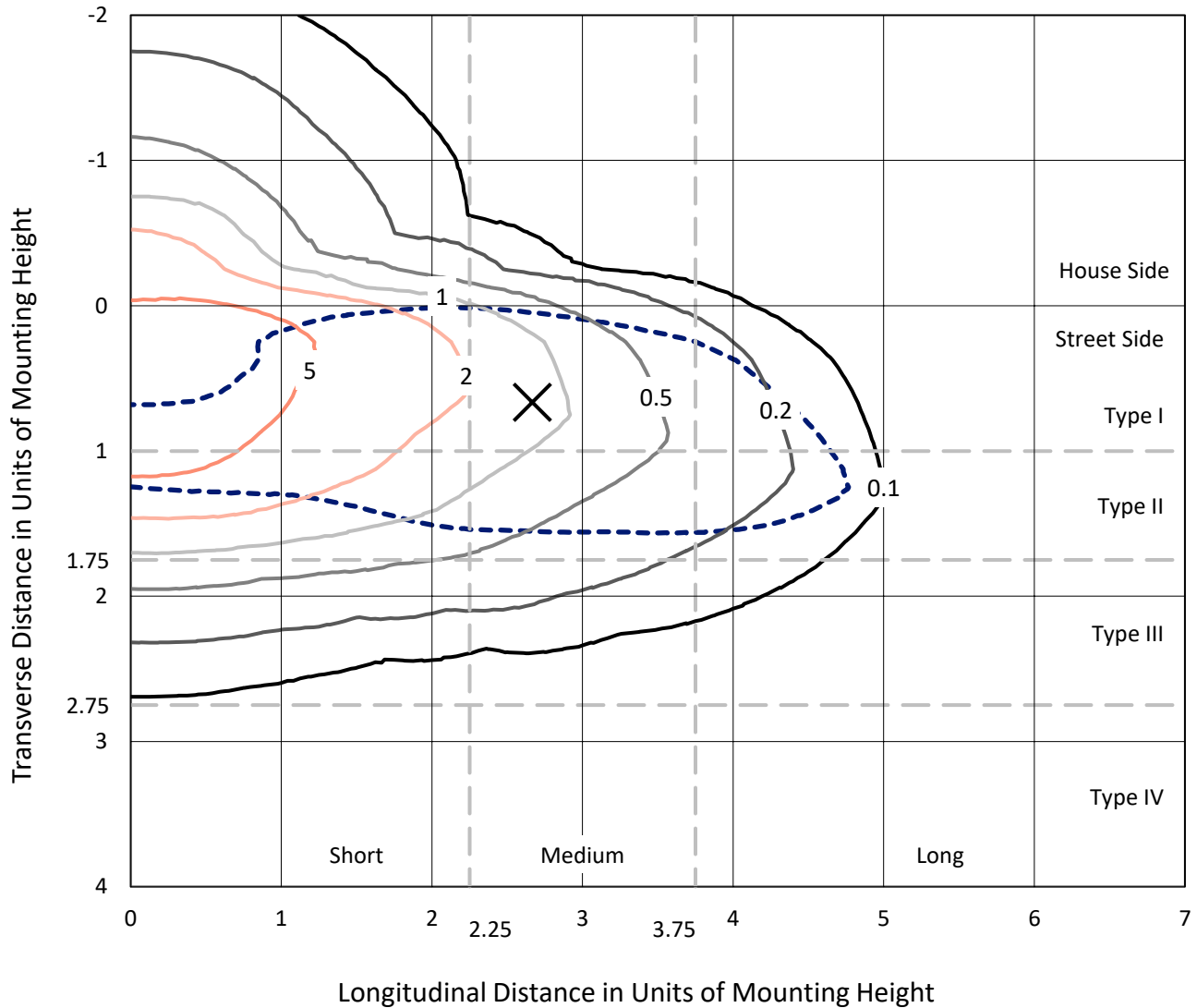
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

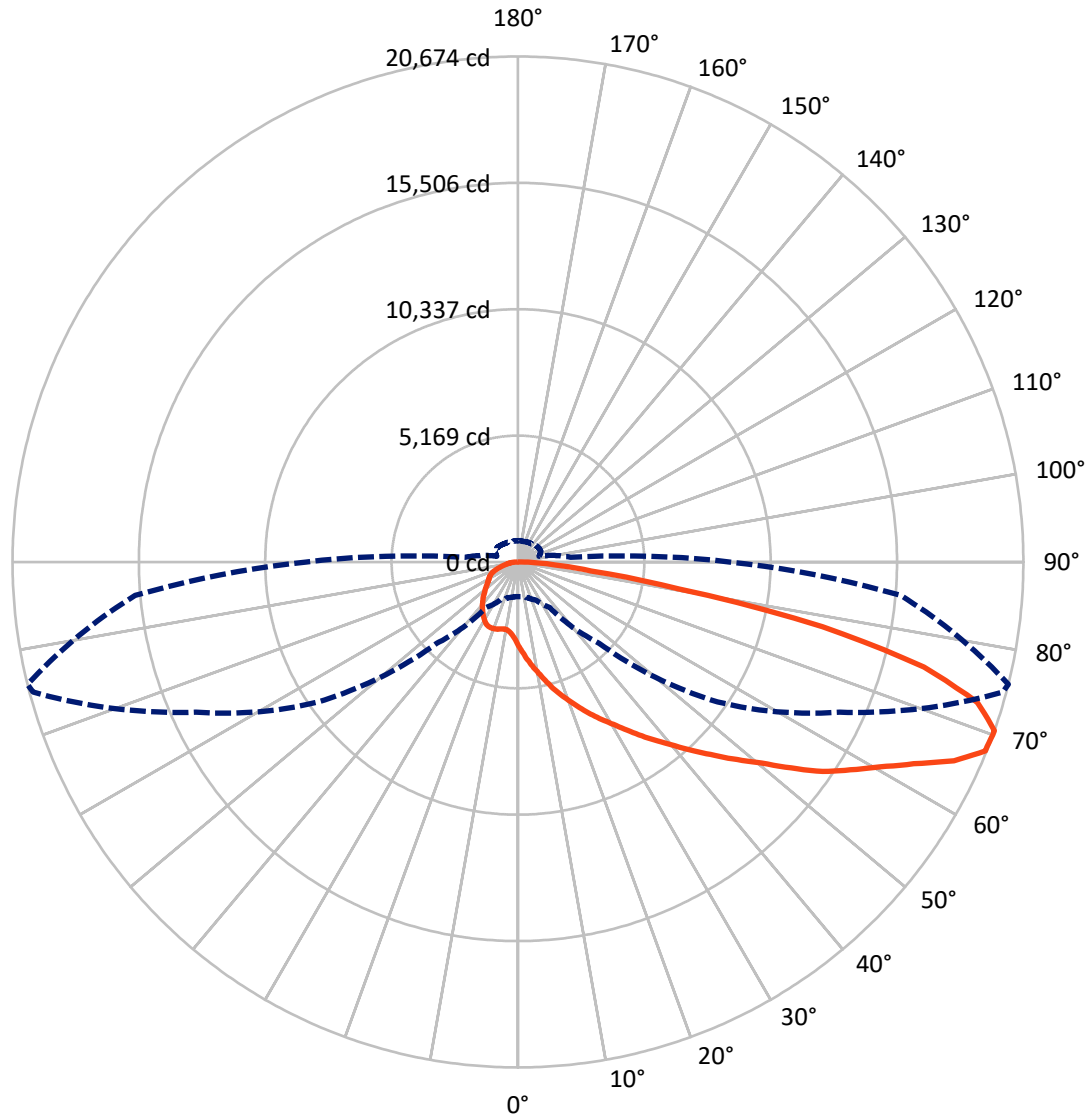
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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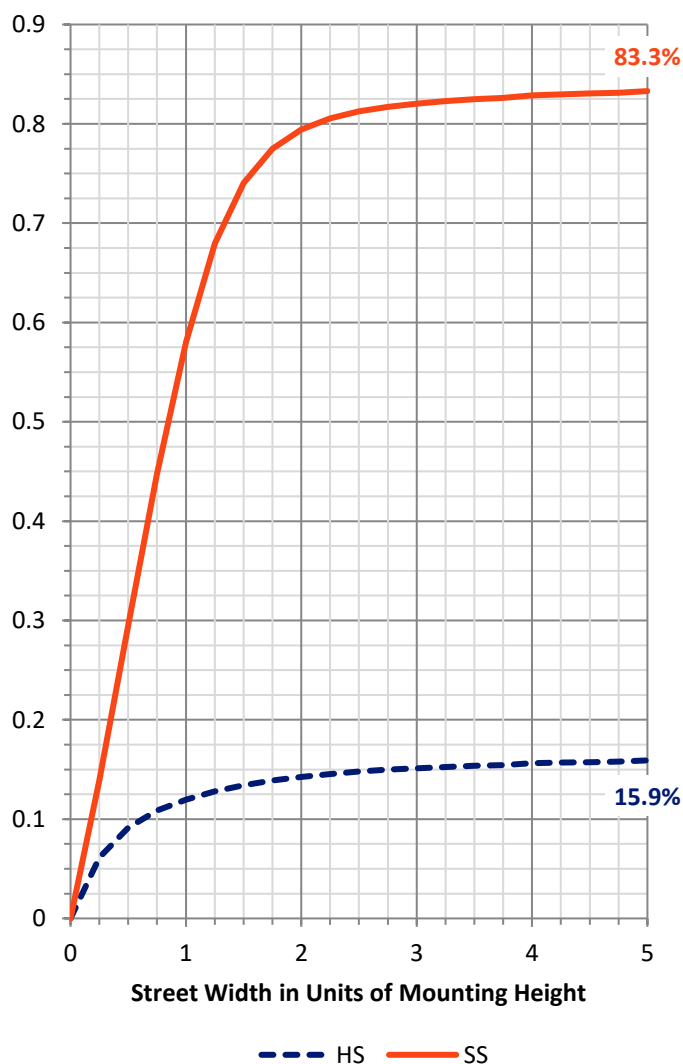
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4477.2	0.0	4477.2
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	22946.8	0.0	22946.8
	% Fixture	83.7	0.0	83.7
Total	Lumens	27424.0	0.0	27424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.3	1.3
10°-20°	1211.1	4.4
20°-30°	2166.8	7.9
30°-40°	3505.1	12.8
40°-50°	5070.6	18.5
50°-60°	5803.6	21.2
60°-70°	5338.7	19.5
70°-80°	3301.4	12.0
80°-90°	670.4	2.4
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°	27424.0	100.0
0°-180°	27424.0	100.0

Coefficient of Utilization



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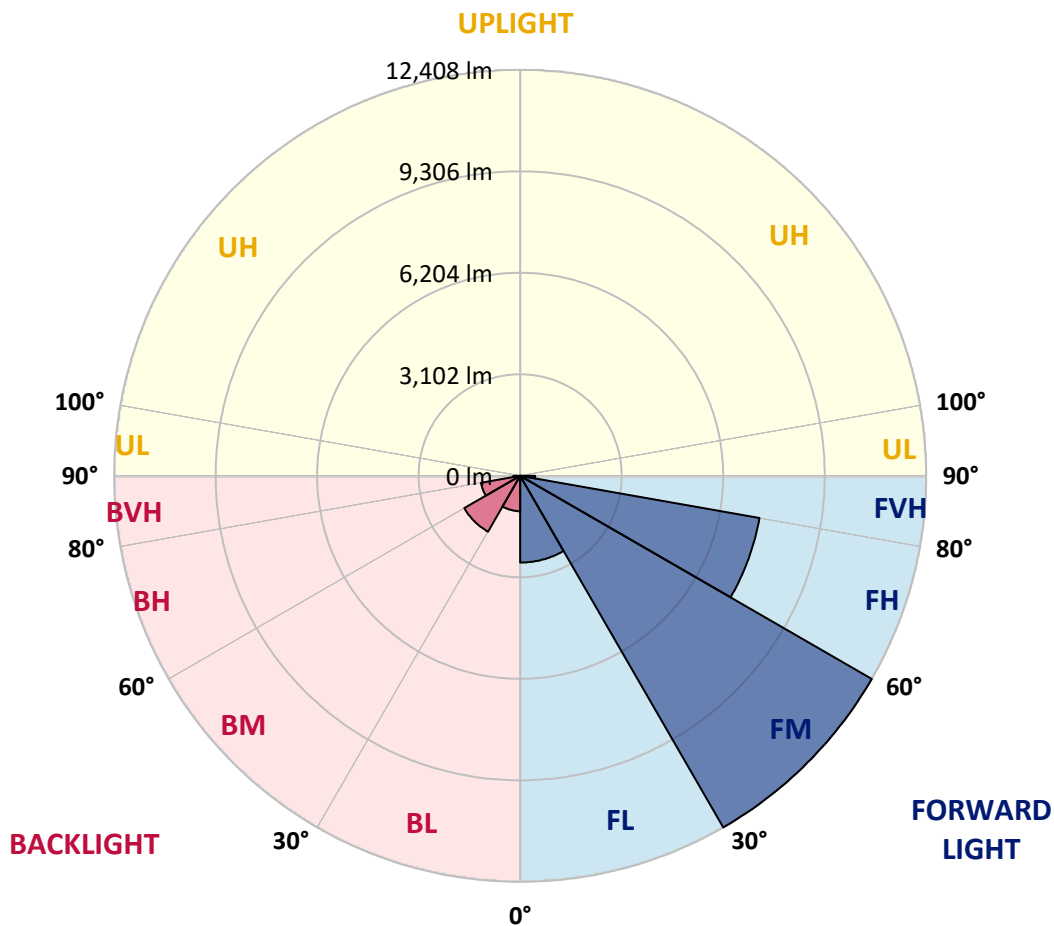
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2652.8	9.7			
FM (30°-60°)	12408.1	45.2			
FH (60°-80°)	7425.7	27.1			G3/7500
FVH (80°-90°)	460.2	1.7			G3/500
BL (0°-30°)	1081.4	3.9	B3/2500		
BM (30°-60°)	1971.3	7.2	B2/2500		
BH (60°-80°)	1214.4	4.4	B3/2500		G3/2500
BVH (80°-90°)	210.2	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°	75°	76°	85°
0°	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5
2.5°	4370.7	4338.2	4334.6	4284.2	4237.3	4111.1	4020.9	3862.2	3703.6	3700.0	3541.3
5°	5052.3	5019.8	5001.8	4940.5	4861.1	4695.3	4533.0	4287.8	4017.3	3999.3	3700.0
7.5°	5513.9	5485.0	5449.0	5423.7	5348.0	5200.1	5001.8	4709.7	4338.2	4302.2	3883.9
10°	5824.0	5806.0	5798.8	5780.7	5733.8	5614.8	5423.7	5113.6	4659.2	4619.5	4078.6
12.5°	5957.4	5950.2	5982.7	6033.2	6051.2	6004.3	5820.4	5528.3	5012.6	4969.3	4313.0
15°	5802.4	5809.6	5892.5	6065.6	6249.5	6350.5	6242.3	5957.4	5412.9	5351.6	4587.1
17.5°	5730.2	5741.1	5798.8	5964.6	6224.3	6538.0	6588.5	6364.9	5798.8	5712.2	4875.6
20°	5856.5	5870.9	5914.2	6044.0	6224.3	6559.7	6822.9	6754.4	6177.4	6087.3	5153.2
22.5°	6177.4	6195.4	6191.8	6274.8	6397.4	6628.2	6952.7	7122.2	6574.1	6473.1	5441.7
25°	6862.6	6848.2	6725.5	6685.9	6718.3	6866.2	7125.8	7475.6	6988.8	6887.8	5744.7
27.5°	7793.0	7774.9	7551.4	7349.4	7169.1	7234.0	7371.1	7760.5	7410.7	7295.3	6033.2
30°	8788.3	8766.7	8507.0	8178.8	7778.6	7684.8	7666.8	8009.4	7836.3	7713.6	6339.7
32.5°	9758.4	9740.3	9462.6	9080.4	8528.6	8247.4	8074.3	8287.0	8319.5	8200.5	6675.1
35°	10641.9	10641.9	10403.9	9949.5	9325.6	8900.1	8615.2	8629.6	8874.8	8737.8	7057.3
37.5°	11428.0	11424.4	11164.8	10717.6	10119.0	9632.1	9278.7	9044.3	9404.9	9285.9	7457.6
40°	12051.9	12026.7	11835.5	11446.1	10843.8	10360.6	10003.6	9531.2	9996.4	9888.2	7883.1
42.5°	12506.3	12491.8	12362.0	12023.0	11449.7	10995.3	10750.1	10144.2	10667.1	10558.9	8380.8
45°	12683.0	12711.8	12711.8	12390.9	11936.5	11521.8	11413.6	10818.6	11392.0	11283.8	8914.5
47.5°	12398.1	12473.8	12628.9	12650.5	12250.2	11969.0	12005.0	11496.5	12138.4	12080.7	9498.7
50°	11507.4	11648.0	11987.0	12600.0	12376.5	12311.5	12509.9	12188.9	12939.0	12921.0	10209.1
52.5°	9210.2	9552.8	10609.4	11709.3	12289.9	12470.2	13011.1	12967.9	13970.4	13999.2	11135.9
55°	7064.5	7194.4	8416.9	10288.5	11759.8	12419.7	13346.5	13728.8	15088.3	15124.4	11987.0
57.5°	5712.2	5798.8	6465.9	8416.9	10551.7	12145.7	13609.8	14172.3	15946.6	16040.3	12744.3
60°	4525.8	4652.0	5099.2	6440.7	8860.4	11485.7	13793.7	14666.4	16869.8	17010.4	13649.4
62.5°	3364.6	3425.9	3847.8	4771.0	7014.0	10299.3	13696.3	15203.7	18002.1	18171.6	14738.5
65°	2394.5	2448.6	2747.9	3393.4	5185.7	8694.5	13130.1	15604.0	19422.9	19596.0	15834.8
67.5°	1792.3	1813.9	1983.4	2372.9	3494.4	6754.4	11983.4	15535.5	20461.5	20616.6	16274.7
70°	1417.2	1424.4	1507.4	1716.5	2271.9	4702.5	9974.7	14529.3	20537.3	20674.3	15719.4
72.5°	1175.6	1172.0	1218.9	1319.9	1583.1	2975.1	7389.1	12661.3	19563.6	19657.4	14168.7
75°	970.1	977.3	1009.7	1067.4	1208.1	1961.8	4789.0	10100.9	17259.2	17158.3	11889.6
77.5°	815.0	811.4	825.8	876.3	977.3	1410.0	2805.6	7298.9	12791.2	12740.7	7803.8
80°	656.3	663.5	685.2	728.5	822.2	1074.6	1658.8	4554.6	6862.6	6678.7	3728.8
82.5°	440.0	508.5	551.7	602.2	710.4	793.4	1053.0	2315.2	3068.9	3022.0	1691.3
85°	209.2	277.7	411.1	468.8	577.0	497.7	714.0	1103.5	1536.2	1518.2	609.4
87.5°	43.3	43.3	220.0	263.3	357.0	212.8	396.7	479.6	742.9	696.0	248.8
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°	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5
2.5°	3447.5	3350.2	3155.4	3000.4	2841.7	2751.5	2639.7	2585.6	2574.8	2546.0	2567.6
5°	3508.8	3317.7	2949.9	2708.3	2546.0	2466.6	2427.0	2412.5	2408.9	2401.7	2401.7
7.5°	3591.8	3299.7	2820.0	2574.8	2470.2	2445.0	2455.8	2477.5	2481.1	2488.3	2484.7
10°	3692.7	3303.3	2747.9	2542.4	2491.9	2495.5	2531.5	2560.4	2574.8	2585.6	2582.0
12.5°	3833.4	3346.5	2737.1	2564.0	2542.4	2556.8	2592.9	2621.7	2636.1	2639.7	2639.7
15°	4017.3	3436.7	2762.3	2610.9	2592.9	2603.7	2625.3	2636.1	2639.7	2636.1	2636.1
17.5°	4219.2	3544.9	2798.4	2639.7	2610.9	2600.1	2592.9	2582.0	2560.4	2546.0	2546.0
20°	4414.0	3642.3	2816.4	2636.1	2585.6	2542.4	2499.1	2445.0	2408.9	2380.1	2380.1
22.5°	4608.7	3732.4	2816.4	2596.5	2517.1	2434.2	2344.0	2257.5	2203.4	2167.3	2167.3
25°	4814.3	3819.0	2794.8	2527.9	2408.9	2289.9	2167.3	2059.1	2005.0	1969.0	1961.8
27.5°	4987.4	3869.4	2737.1	2430.6	2275.5	2124.0	1983.4	1871.6	1831.9	1799.5	1799.5
30°	5171.3	3901.9	2628.9	2304.4	2124.0	1950.9	1806.7	1716.5	1673.3	1626.4	1622.8
32.5°	5376.8	3923.5	2506.3	2170.9	1969.0	1785.1	1662.5	1590.3	1496.6	1446.1	1438.9
35°	5614.8	3952.4	2376.5	2019.5	1813.9	1648.0	1575.9	1456.9	1366.7	1323.5	1319.9
37.5°	5867.3	3974.0	2235.8	1886.0	1673.3	1557.9	1485.8	1345.1	1265.8	1200.9	1193.6
40°	6134.1	3974.0	2091.6	1756.2	1561.5	1518.2	1381.2	1255.0	1121.5	1089.1	1081.9
42.5°	6429.8	3966.8	1947.3	1630.0	1456.9	1428.1	1319.9	1186.4	1117.9	1089.1	1081.9
45°	6743.6	3941.6	1810.3	1485.8	1348.7	1291.0	1208.1	1172.0	1143.2	1143.2	1143.2
47.5°	7100.6	3919.9	1655.2	1355.9	1269.4	1204.5	1143.2	1121.5	1117.9	1128.7	1139.6
50°	7558.6	3912.7	1525.4	1262.2	1208.1	1132.3	1125.1	1107.1	1110.7	1110.7	1110.7
52.5°	8113.9	3847.8	1402.8	1193.6	1146.8	1056.6	1078.3	1096.3	1103.5	1099.9	1096.3
55°	8521.4	3732.4	1298.2	1146.8	1103.5	1027.8	1056.6	1085.5	1092.7	1081.9	1081.9
57.5°	8889.3	3570.1	1215.3	1110.7	1074.6	1009.7	1042.2	1071.0	1063.8	1060.2	1056.6
60°	9311.2	3415.1	1150.4	1092.7	1045.8	1002.5	1031.4	1049.4	1038.6	1031.4	1027.8
62.5°	9769.2	3263.6	1103.5	1092.7	1024.2	998.9	1020.6	1027.8	1006.1	998.9	998.9
65°	9981.9	3025.6	1053.0	1092.7	1013.3	991.7	998.9	991.7	970.1	970.1	966.5
67.5°	9632.1	2632.5	988.1	1078.3	1027.8	980.9	966.5	955.6	930.4	930.4	923.2
70°	8665.7	2163.7	894.3	1031.4	1031.4	977.3	923.2	897.9	869.1	879.9	865.5
72.5°	7403.5	1716.5	778.9	952.0	1009.7	973.7	876.3	836.6	811.4	822.2	800.6
75°	5997.1	1330.7	641.9	825.8	955.6	955.6	829.4	775.3	746.5	746.5	721.2
77.5°	3822.6	984.5	522.9	685.2	858.3	930.4	789.8	706.8	663.5	652.7	634.7
80°	1893.3	692.4	429.1	544.5	732.1	872.7	760.9	627.5	566.2	544.5	512.1
82.5°	1006.1	479.6	342.6	425.5	584.2	786.1	724.8	540.9	465.2	432.7	396.7
85°	450.8	295.7	274.1	324.6	443.6	645.5	652.7	443.6	357.0	425.5	313.7
87.5°	165.9	133.4	133.4	165.9	256.0	270.5	461.6	284.9	227.2	155.1	122.6
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)