

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: P400066

Luminaire Tested: **ARCH-L-PA3-230-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400066
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-PA3-230-730-U-T2R
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: 29097 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

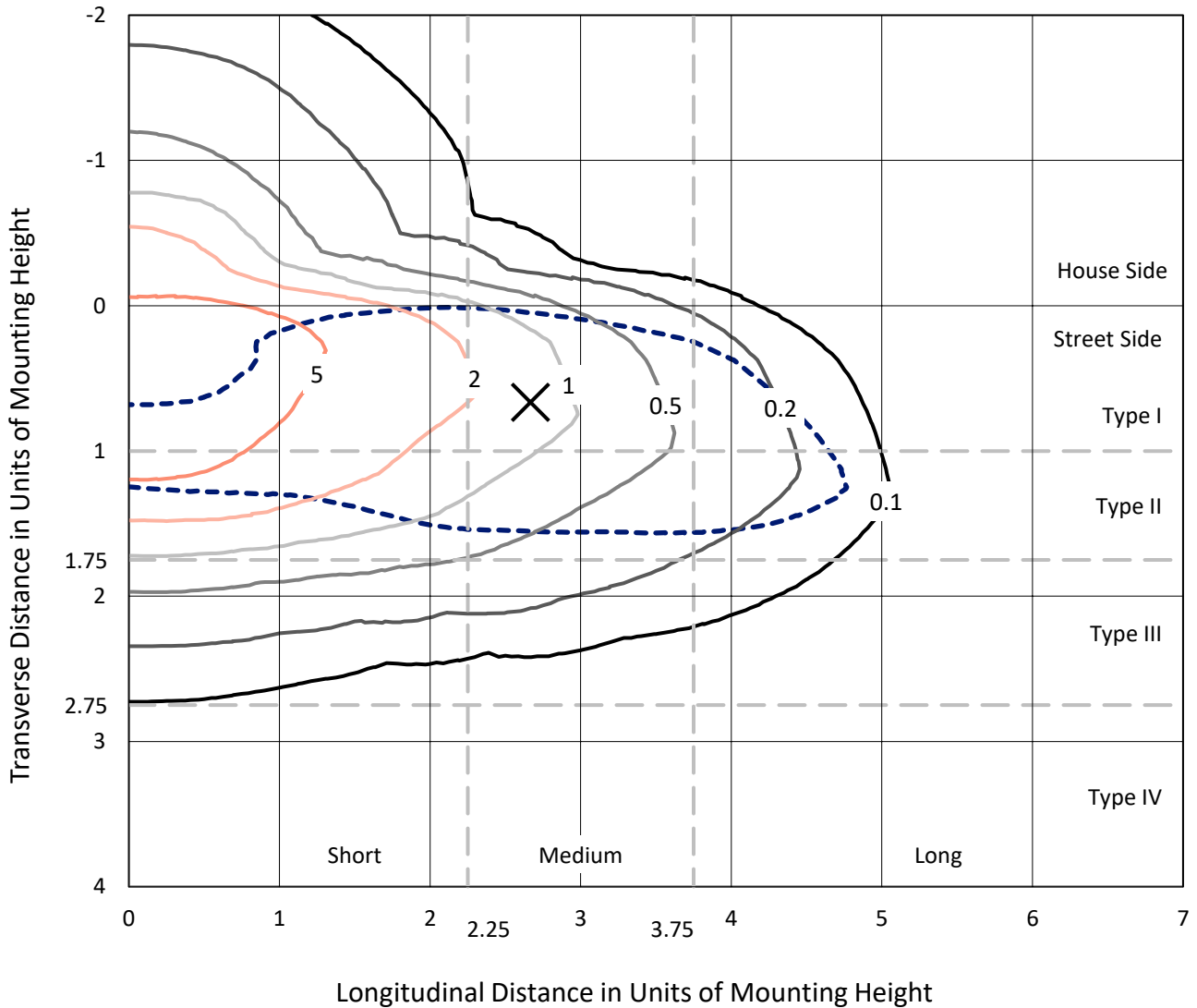
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

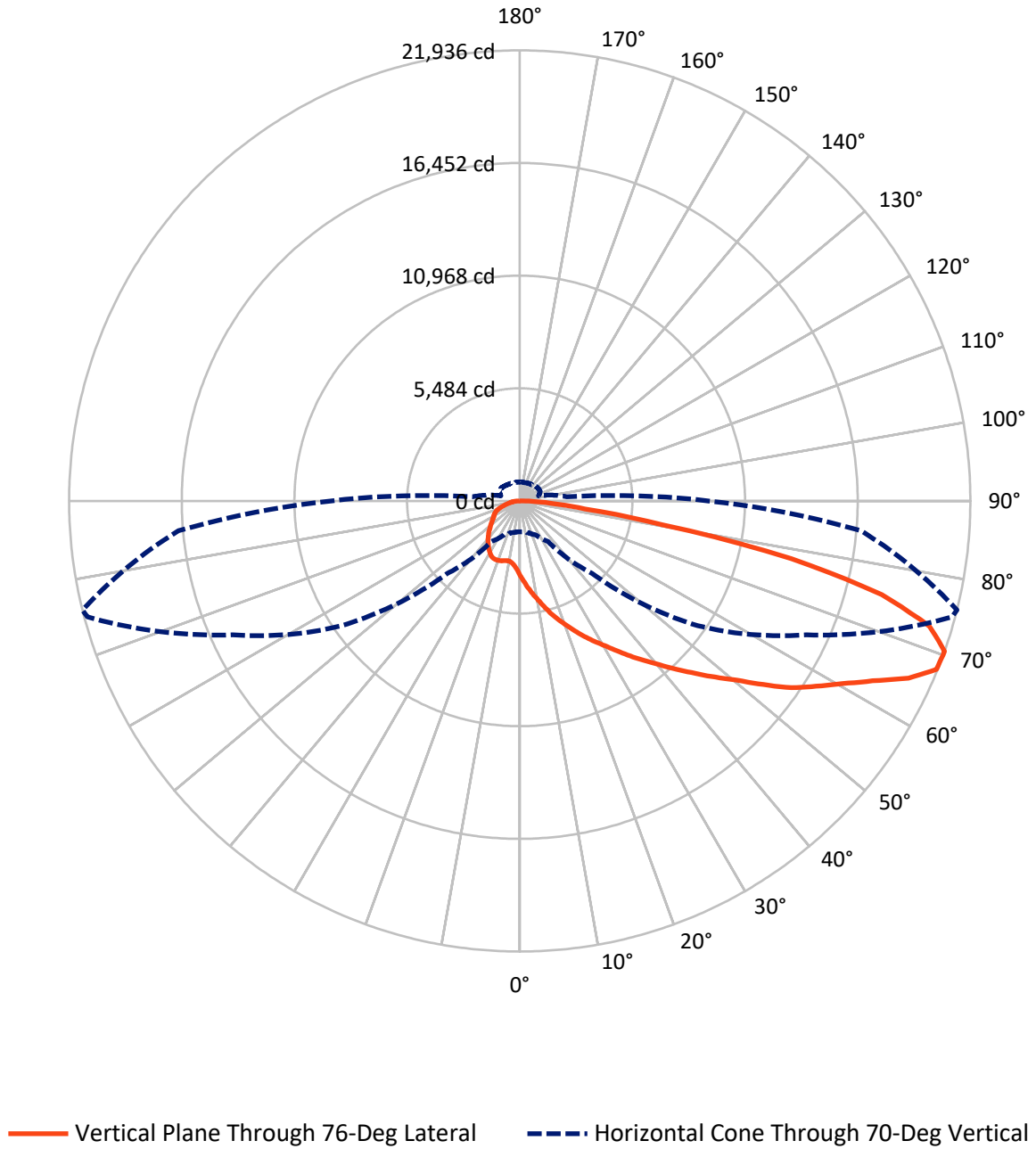
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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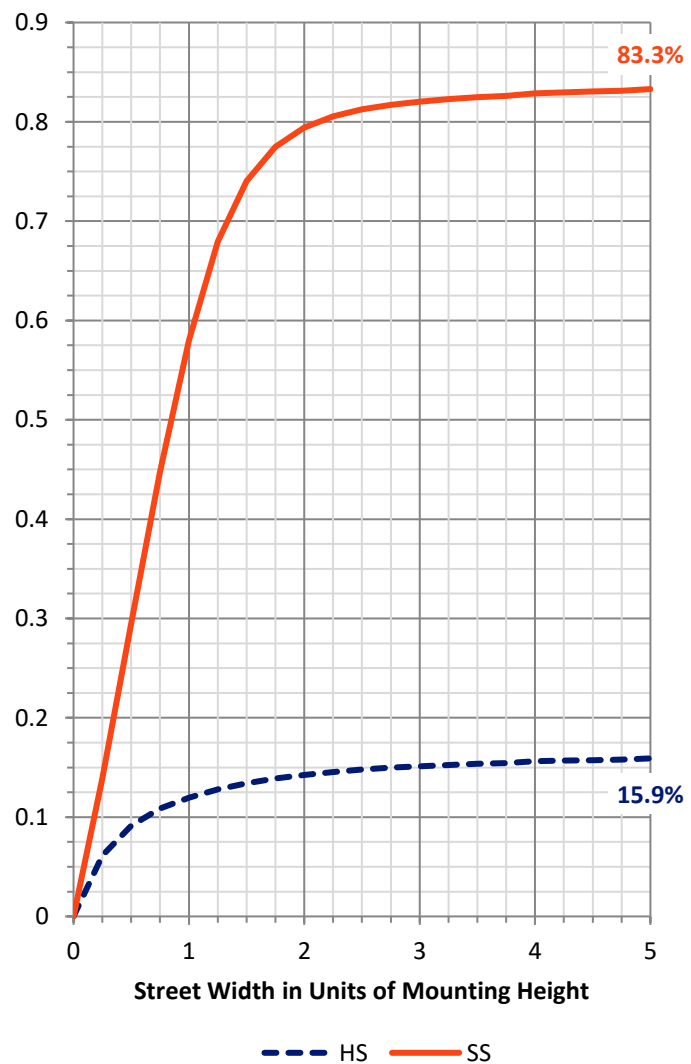
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4750.4	0.0	4750.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	24346.6	0.0	24346.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	29097.0	0.0	29097.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.1	1.3
10°-20°	1285.0	4.4
20°-30°	2299.0	7.9
30°-40°	3718.9	12.8
40°-50°	5380.0	18.5
50°-60°	6157.7	21.2
60°-70°	5664.4	19.5
70°-80°	3502.8	12.0
80°-90°	711.3	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°	29097.0	100.0
0°-180°	29097.0	100.0



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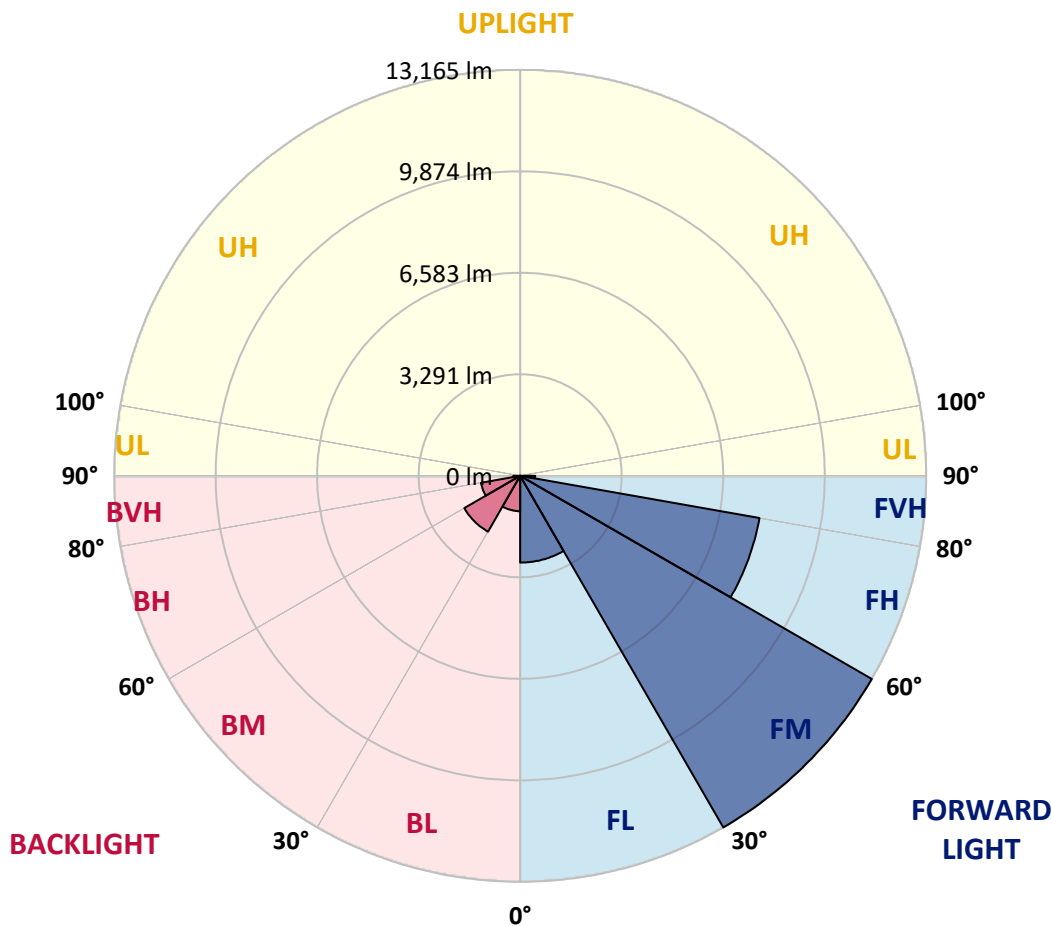
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2814.6	9.7			
FM (30°-60°)	13165.0	45.2			
FH (60°-80°)	7878.7	27.1			G4/12000
FVH (80°-90°)	488.3	1.7			G3/500
BL (0°-30°)	1147.4	3.9	B3/2500		
BM (30°-60°)	2091.6	7.2	B2/2500		
BH (60°-80°)	1288.5	4.4	B3/2500		G3/2500
BVH (80°-90°)	223.0	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7
2.5°	4637.3	4602.9	4599.1	4545.5	4495.8	4361.9	4266.2	4097.8	3929.5	3925.7	3757.3
5°	5360.5	5326.1	5306.9	5241.9	5157.7	4981.7	4809.5	4549.3	4262.4	4243.2	3925.7
7.5°	5850.2	5819.6	5781.4	5754.6	5674.2	5517.4	5306.9	4997.0	4602.9	4564.6	4120.8
10°	6179.3	6160.2	6152.5	6133.4	6083.6	5957.4	5754.6	5425.5	4943.4	4901.3	4327.4
12.5°	6320.9	6313.2	6347.6	6401.2	6420.3	6370.6	6175.5	5865.5	5318.4	5272.5	4576.1
15°	6156.3	6164.0	6252.0	6435.6	6630.8	6737.9	6623.1	6320.9	5743.1	5678.1	4866.9
17.5°	6079.8	6091.3	6152.5	6328.5	6604.0	6936.9	6990.4	6753.2	6152.5	6060.7	5173.0
20°	6213.7	6229.0	6274.9	6412.7	6604.0	6959.8	7239.1	7166.4	6554.3	6458.6	5467.6
22.5°	6554.3	6573.4	6569.6	6657.6	6787.7	7032.5	7376.9	7556.7	6975.1	6868.0	5773.7
25°	7281.2	7265.9	7135.8	7093.8	7128.2	7285.1	7560.5	7931.7	7415.2	7308.0	6095.1
27.5°	8268.4	8249.3	8012.0	7797.8	7606.5	7675.3	7820.7	8234.0	7862.8	7740.4	6401.2
30°	9324.4	9301.5	9026.0	8677.8	8253.1	8153.6	8134.5	8498.0	8314.3	8184.2	6726.4
32.5°	10353.7	10334.5	10039.9	9634.3	9048.9	8750.5	8566.8	8792.6	8827.0	8700.8	7082.3
35°	11291.1	11291.1	11038.6	10556.5	9894.5	9443.0	9140.8	9156.1	9416.2	9270.9	7487.8
37.5°	12125.2	12121.4	11845.9	11371.4	10736.3	10219.7	9844.8	9596.1	9978.7	9852.4	7912.6
40°	12787.1	12760.3	12557.5	12144.3	11505.3	10992.6	10613.8	10112.6	10606.2	10491.4	8364.0
42.5°	13269.2	13253.9	13116.2	12756.5	12148.1	11666.0	11405.9	10763.1	11317.9	11203.1	8892.1
45°	13456.7	13487.3	13487.3	13146.8	12664.7	12224.7	12109.9	11478.6	12086.9	11972.1	9458.3
47.5°	13154.4	13234.8	13399.3	13422.3	12997.6	12699.1	12737.4	12197.9	12878.9	12817.7	10078.2
50°	12209.4	12358.6	12718.2	13368.7	13131.5	13062.6	13273.0	12932.5	13728.4	13709.2	10831.9
52.5°	9772.1	10135.6	11256.6	12423.6	13039.6	13231.0	13804.9	13759.0	14822.7	14853.3	11815.3
55°	7495.5	7633.2	8930.3	10916.1	12477.2	13177.4	14160.7	14566.3	16008.8	16047.0	12718.2
57.5°	6060.7	6152.5	6860.4	8930.3	11195.4	12886.6	14440.0	15036.9	16919.4	17018.9	13521.7
60°	4801.9	4935.8	5410.2	6833.6	9400.9	12186.4	14635.2	15561.1	17898.9	18048.1	14482.1
62.5°	3569.8	3634.9	4082.5	5062.0	7441.9	10927.6	14531.9	16131.2	19100.3	19280.2	15637.6
65°	2540.6	2598.0	2915.6	3600.4	5502.1	9224.9	13931.1	16555.9	20607.8	20791.5	16800.8
67.5°	1901.6	1924.6	2104.4	2517.6	3707.6	7166.4	12714.4	16483.2	21709.8	21874.3	17267.6
70°	1503.7	1511.3	1599.3	1821.3	2410.5	4989.3	10583.2	15415.7	21790.1	21935.5	16678.4
72.5°	1247.3	1243.5	1293.3	1400.4	1679.7	3156.6	7839.9	13433.7	20757.1	20856.5	15033.1
75°	1029.2	1036.9	1071.3	1132.6	1281.8	2081.4	5081.2	10717.2	18312.1	18205.0	12614.9
77.5°	864.7	860.9	876.2	929.8	1036.9	1496.0	2976.8	7744.2	13571.5	13517.9	8279.9
80°	696.4	704.0	727.0	772.9	872.4	1140.2	1760.0	4832.5	7281.2	7086.1	3956.3
82.5°	466.8	539.5	585.4	639.0	753.8	841.8	1117.2	2456.4	3256.1	3206.3	1794.5
85°	221.9	294.6	436.2	497.4	612.2	528.0	757.6	1170.8	1630.0	1610.8	646.6
87.5°	45.9	45.9	233.4	279.3	378.8	225.7	420.9	508.9	788.2	738.5	264.0
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°	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7	3638.7
2.5°	3657.8	3554.5	3347.9	3183.4	3015.0	2919.4	2800.8	2743.4	2731.9	2701.3	2724.2
5°	3722.9	3520.1	3129.8	2873.5	2701.3	2617.1	2575.0	2559.7	2555.9	2548.2	2548.2
7.5°	3810.9	3501.0	2992.1	2731.9	2620.9	2594.2	2605.6	2628.6	2632.4	2640.1	2636.2
10°	3918.0	3504.8	2915.6	2697.5	2643.9	2647.7	2686.0	2716.6	2731.9	2743.4	2739.6
12.5°	4067.2	3550.7	2904.1	2720.4	2697.5	2712.8	2751.0	2781.6	2796.9	2800.8	2800.8
15°	4262.4	3646.4	2930.9	2770.2	2751.0	2762.5	2785.5	2796.9	2800.8	2796.9	2796.9
17.5°	4476.6	3761.1	2969.1	2800.8	2770.2	2758.7	2751.0	2739.6	2716.6	2701.3	2701.3
20°	4683.3	3864.4	2988.3	2796.9	2743.4	2697.5	2651.5	2594.2	2555.9	2525.3	2525.3
22.5°	4889.9	3960.1	2988.3	2754.9	2670.7	2582.7	2487.0	2395.2	2337.8	2299.5	2299.5
25°	5108.0	4051.9	2965.3	2682.2	2555.9	2429.6	2299.5	2184.8	2127.4	2089.1	2081.4
27.5°	5291.6	4105.5	2904.1	2578.9	2414.3	2253.6	2104.4	1985.8	1943.7	1909.3	1909.3
30°	5486.8	4139.9	2789.3	2444.9	2253.6	2070.0	1916.9	1821.3	1775.4	1725.6	1721.8
32.5°	5704.8	4162.9	2659.2	2303.4	2089.1	1894.0	1763.9	1687.3	1587.9	1534.3	1526.6
35°	5957.4	4193.5	2521.5	2142.7	1924.6	1748.6	1672.0	1545.8	1450.1	1404.2	1400.4
37.5°	6225.2	4216.5	2372.2	2001.1	1775.4	1652.9	1576.4	1427.2	1343.0	1274.1	1266.5
40°	6508.3	4216.5	2219.2	1863.4	1656.7	1610.8	1465.4	1331.5	1189.9	1155.5	1147.9
42.5°	6822.1	4208.8	2066.1	1729.4	1545.8	1515.2	1400.4	1258.8	1186.1	1155.5	1147.9
45°	7155.0	4182.0	1920.7	1576.4	1431.0	1369.8	1281.8	1243.5	1212.9	1212.9	1212.9
47.5°	7533.8	4159.1	1756.2	1438.6	1346.8	1277.9	1212.9	1189.9	1186.1	1197.6	1209.1
50°	8019.7	4151.4	1618.5	1339.2	1281.8	1201.4	1193.8	1174.6	1178.5	1178.5	1178.5
52.5°	8608.9	4082.5	1488.4	1266.5	1216.7	1121.1	1144.0	1163.2	1170.8	1167.0	1163.2
55°	9041.3	3960.1	1377.4	1216.7	1170.8	1090.5	1121.1	1151.7	1159.3	1147.9	1147.9
57.5°	9431.6	3787.9	1289.4	1178.5	1140.2	1071.3	1105.8	1136.4	1128.7	1124.9	1121.1
60°	9879.2	3623.4	1220.6	1159.3	1109.6	1063.7	1094.3	1113.4	1101.9	1094.3	1090.5
62.5°	10365.1	3462.7	1170.8	1159.3	1086.6	1059.9	1082.8	1090.5	1067.5	1059.9	1059.9
65°	10590.9	3210.2	1117.2	1159.3	1075.2	1052.2	1059.9	1052.2	1029.2	1029.2	1025.4
67.5°	10219.7	2793.1	1048.4	1144.0	1090.5	1040.7	1025.4	1013.9	987.2	987.2	979.5
70°	9194.3	2295.7	948.9	1094.3	1094.3	1036.9	979.5	952.7	922.1	933.6	918.3
72.5°	7855.2	1821.3	826.5	1010.1	1071.3	1033.1	929.8	887.7	860.9	872.4	849.4
75°	6362.9	1411.9	681.1	876.2	1013.9	1013.9	880.0	822.6	792.0	792.0	765.2
77.5°	4055.8	1044.5	554.8	727.0	910.6	987.2	837.9	749.9	704.0	692.5	673.4
80°	2008.7	734.6	455.3	577.8	776.7	925.9	807.3	665.8	600.7	577.8	543.3
82.5°	1067.5	508.9	363.5	451.5	619.8	834.1	769.1	573.9	493.6	459.1	420.9
85°	478.3	313.7	290.8	344.4	470.6	684.9	692.5	470.6	378.8	451.5	332.9
87.5°	176.0	141.6	141.6	176.0	271.7	287.0	489.8	302.3	241.0	164.5	130.1
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)