

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: P399985

Luminaire Tested: **ARCH-L-PA3-220-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399985
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-PA3-220-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 26065 lumens
Efficiency: N/A
Efficacy: 117.4 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

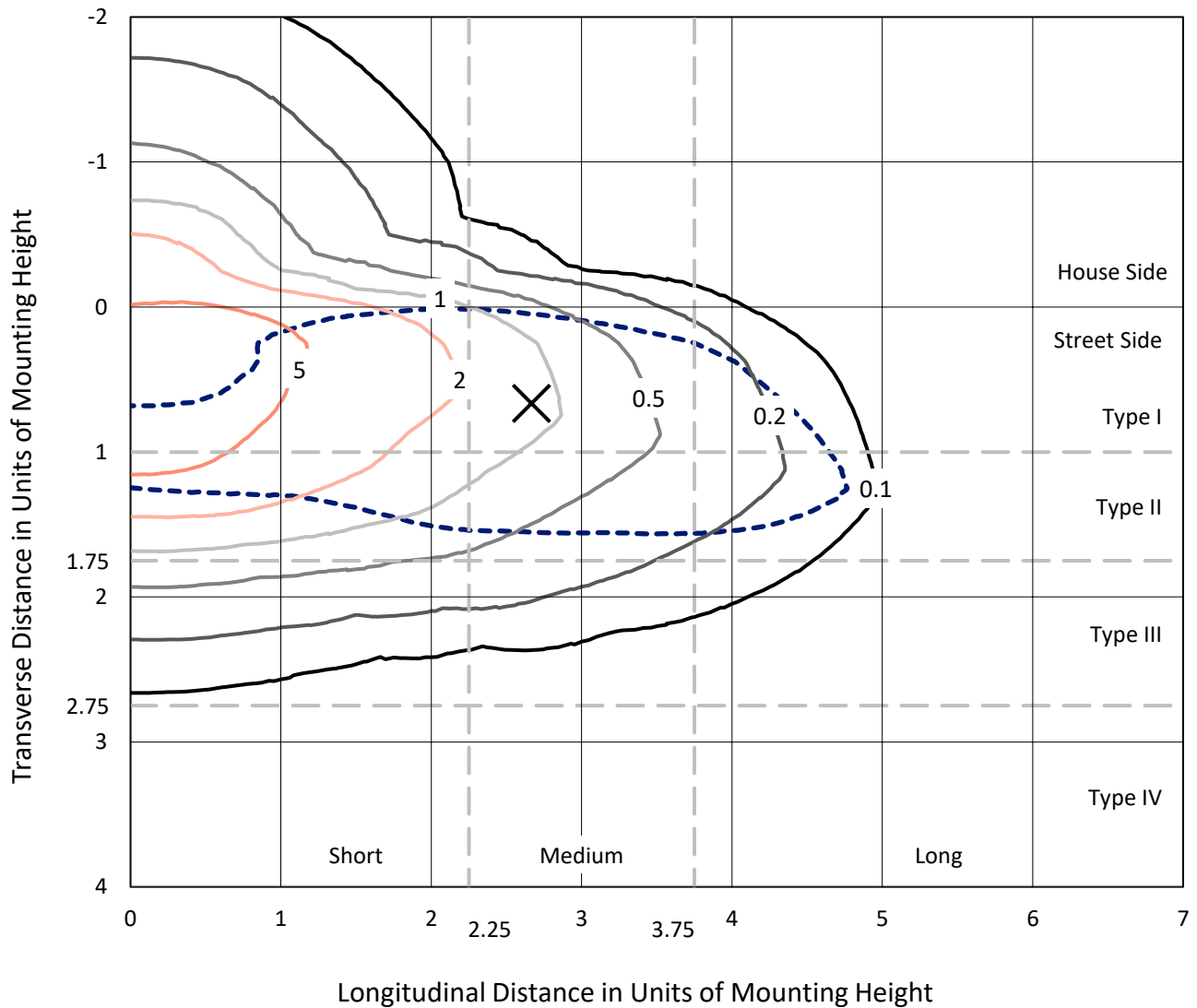
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

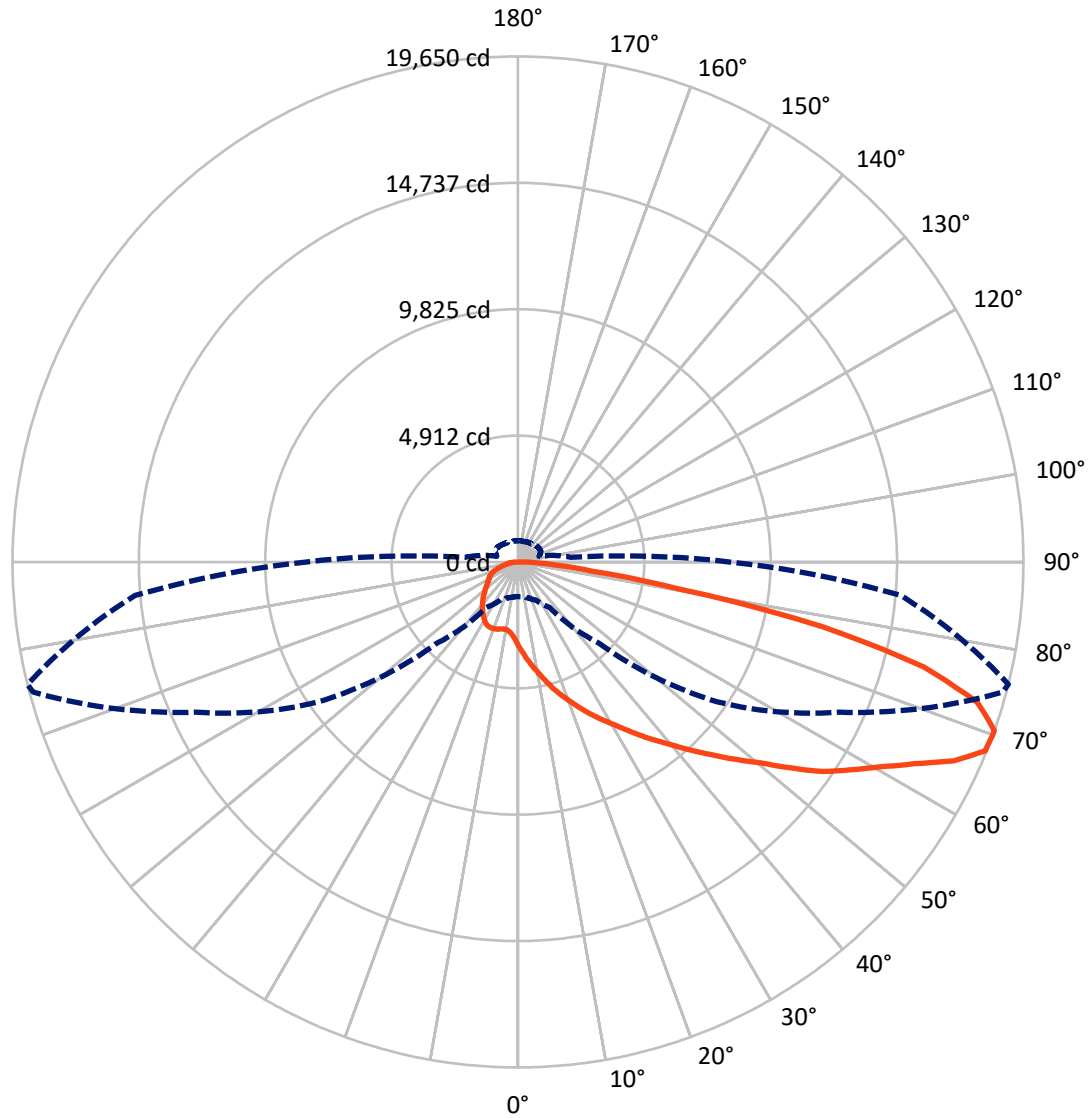
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - 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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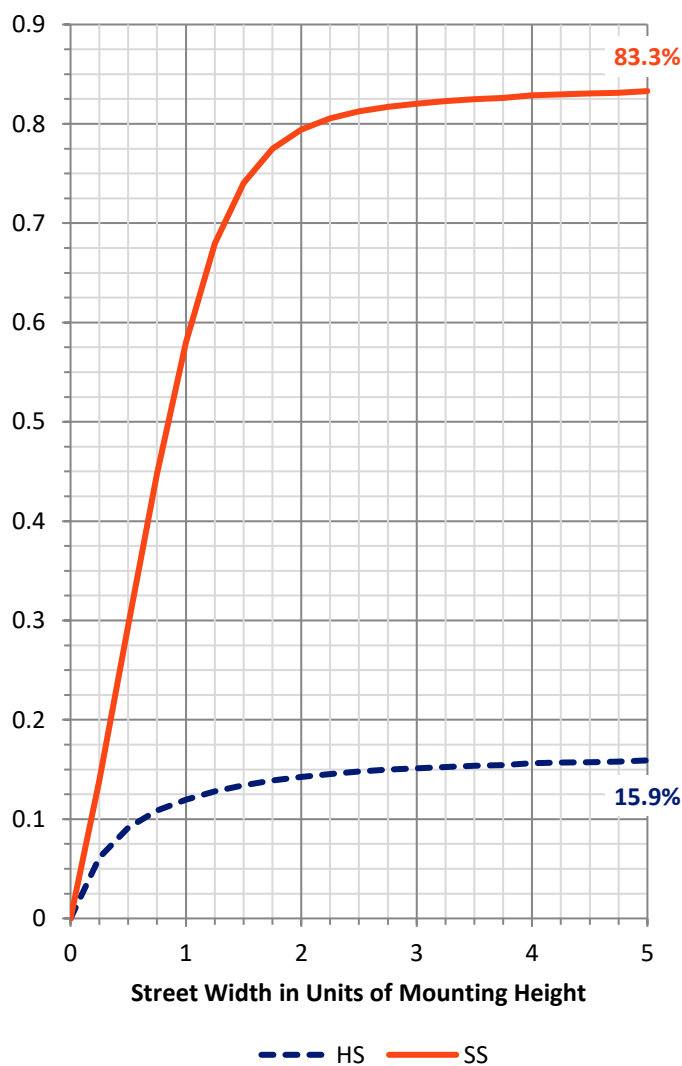
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4255.4	0.0	4255.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	21809.6	0.0	21809.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	26065.0	0.0	26065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	1.3
10°-20°	1151.1	4.4
20°-30°	2059.4	7.9
30°-40°	3331.4	12.8
40°-50°	4819.3	18.5
50°-60°	5516.0	21.2
60°-70°	5074.1	19.5
70°-80°	3137.8	12.0
80°-90°	637.2	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°	26065.0	100.0
0°-180°	26065.0	100.0

Coefficient of Utilization



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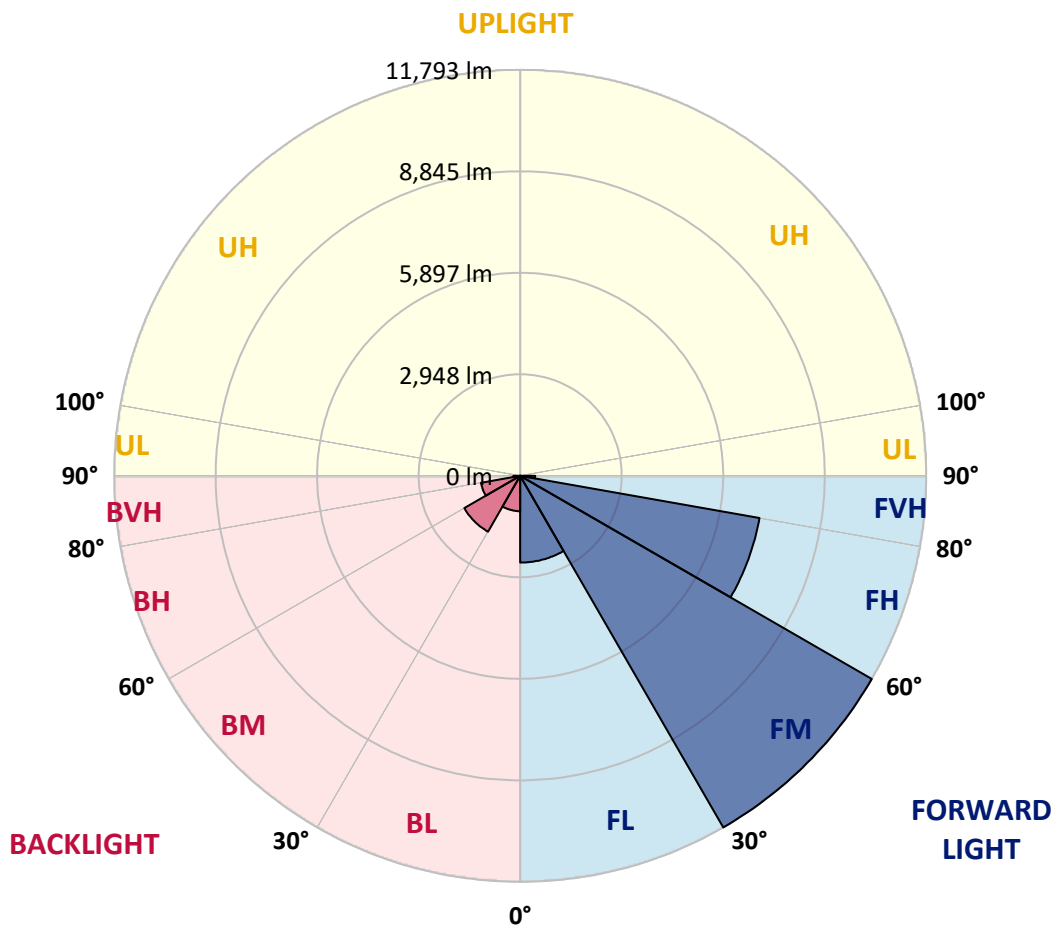
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.3	9.7			
FM (30°-60°)	11793.2	45.2			
FH (60°-80°)	7057.7	27.1			G3/7500
FVH (80°-90°)	437.4	1.7			G3/500
BL (0°-30°)	1027.8	3.9	B3/2500		
BM (30°-60°)	1873.6	7.2	B2/2500		
BH (60°-80°)	1154.2	4.4	B3/2500		G3/2500
BVH (80°-90°)	199.8	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°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	4154.1	4123.3	4119.8	4071.9	4027.3	3907.3	3821.6	3670.8	3520.0	3516.6	3365.8
5°	4801.9	4771.1	4753.9	4695.7	4620.3	4462.6	4308.4	4075.3	3818.2	3801.1	3516.6
7.5°	5240.6	5213.2	5178.9	5154.9	5083.0	4942.4	4753.9	4476.3	4123.3	4089.0	3691.4
10°	5535.4	5518.3	5511.4	5494.3	5449.7	5336.6	5154.9	4860.2	4428.3	4390.6	3876.5
12.5°	5662.2	5655.4	5686.2	5734.2	5751.3	5706.8	5532.0	5254.3	4764.2	4723.1	4099.3
15°	5514.8	5521.7	5600.5	5765.0	5939.8	6035.8	5933.0	5662.2	5144.7	5086.4	4359.8
17.5°	5446.3	5456.6	5511.4	5669.1	5915.8	6214.0	6262.0	6049.5	5511.4	5429.1	4634.0
20°	5566.2	5579.9	5621.1	5744.5	5915.8	6234.6	6484.8	6419.7	5871.3	5785.6	4897.9
22.5°	5871.3	5888.4	5885.0	5963.8	6080.4	6299.7	6608.2	6769.3	6248.3	6152.3	5172.1
25°	6522.5	6508.8	6392.3	6354.6	6385.4	6525.9	6772.7	7105.2	6642.5	6546.5	5460.0
27.5°	7406.8	7389.7	7177.2	6985.2	6813.8	6875.5	7005.8	7376.0	7043.5	6933.8	5734.2
30°	8352.8	8332.2	8085.4	7773.5	7393.1	7304.0	7286.8	7612.4	7447.9	7331.4	6025.5
32.5°	9274.8	9257.6	8993.7	8630.4	8106.0	7838.7	7674.1	7876.4	7907.2	7794.1	6344.3
35°	10114.5	10114.5	9888.3	9456.4	8863.5	8459.0	8188.3	8202.0	8435.0	8304.8	6707.6
37.5°	10861.7	10858.3	10611.5	10186.5	9617.5	9154.8	8818.9	8596.1	8938.9	8825.8	7088.0
40°	11454.7	11430.7	11249.0	10878.8	10306.5	9847.2	9507.8	9058.8	9501.0	9398.2	7492.5
42.5°	11886.5	11872.8	11749.4	11427.2	10882.3	10450.4	10217.3	9641.5	10138.5	10035.7	7965.5
45°	12054.5	12081.9	12081.9	11776.8	11345.0	10950.8	10848.0	10282.5	10827.4	10724.6	8472.7
47.5°	11783.7	11855.7	12003.1	12023.6	11643.2	11375.8	11410.1	10926.8	11536.9	11482.1	9028.0
50°	10937.1	11070.8	11393.0	11975.6	11763.1	11701.4	11890.0	11584.9	12297.8	12280.7	9703.2
52.5°	8753.8	9079.4	10083.7	11129.0	11680.9	11852.2	12366.4	12325.2	13278.1	13305.5	10584.1
55°	6714.4	6837.8	7999.8	9778.6	11177.0	11804.3	12685.1	13048.4	14340.6	14374.9	11393.0
57.5°	5429.1	5511.4	6145.5	7999.8	10028.8	11543.8	12935.3	13470.0	15156.3	15245.5	12112.7
60°	4301.5	4421.5	4846.5	6121.5	8421.3	10916.5	13110.1	13939.6	16033.8	16167.5	12973.0
62.5°	3197.8	3256.1	3657.1	4534.6	6666.5	9788.9	13017.6	14450.3	17110.0	17271.1	14008.1
65°	2275.9	2327.3	2611.7	3225.3	4928.7	8263.7	12479.5	14830.7	18460.4	18625.0	15050.1
67.5°	1703.5	1724.0	1885.1	2255.3	3321.2	6419.7	11389.5	14765.6	19447.6	19594.9	15468.2
70°	1347.0	1353.9	1432.7	1631.5	2159.3	4469.4	9480.4	13809.3	19519.5	19649.8	14940.4
72.5°	1117.4	1113.9	1158.5	1254.5	1504.7	2827.7	7022.9	12033.9	18594.1	18683.2	13466.6
75°	922.0	928.8	959.7	1014.5	1148.2	1864.6	4551.7	9600.4	16404.0	16308.0	11300.4
77.5°	774.6	771.2	784.9	832.9	928.8	1340.1	2666.6	6937.2	12157.3	12109.3	7417.1
80°	623.8	630.7	651.2	692.4	781.5	1021.4	1576.6	4328.9	6522.5	6347.7	3544.0
82.5°	418.2	483.3	524.4	572.4	675.2	754.0	1000.8	2200.4	2916.8	2872.2	1607.5
85°	198.8	263.9	390.7	445.6	548.4	473.0	678.6	1048.8	1460.1	1443.0	579.2
87.5°	41.1	41.1	209.1	250.2	339.3	202.2	377.0	455.9	706.1	661.5	236.5
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°	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5	3259.5
2.5°	3276.7	3184.1	2999.1	2851.7	2700.9	2615.2	2508.9	2457.5	2447.2	2419.8	2440.4
5°	3334.9	3153.3	2803.7	2574.0	2419.8	2344.4	2306.7	2293.0	2289.6	2282.7	2282.7
7.5°	3413.8	3136.2	2680.3	2447.2	2347.8	2323.8	2334.1	2354.7	2358.1	2365.0	2361.5
10°	3509.7	3139.6	2611.7	2416.4	2368.4	2371.8	2406.1	2433.5	2447.2	2457.5	2454.1
12.5°	3643.4	3180.7	2601.5	2436.9	2416.4	2430.1	2464.4	2491.8	2505.5	2508.9	2508.9
15°	3818.2	3266.4	2625.5	2481.5	2464.4	2474.6	2495.2	2505.5	2508.9	2505.5	2505.5
17.5°	4010.2	3369.2	2659.7	2508.9	2481.5	2471.2	2464.4	2454.1	2433.5	2419.8	2419.8
20°	4195.2	3461.8	2676.9	2505.5	2457.5	2416.4	2375.2	2323.8	2289.6	2262.1	2262.1
22.5°	4380.3	3547.4	2676.9	2467.8	2392.4	2313.6	2227.9	2145.6	2094.2	2059.9	2059.9
25°	4575.7	3629.7	2656.3	2402.7	2289.6	2176.5	2059.9	1957.1	1905.7	1871.4	1864.6
27.5°	4740.2	3677.7	2601.5	2310.1	2162.7	2018.8	1885.1	1778.9	1741.2	1710.3	1710.3
30°	4915.0	3708.5	2498.6	2190.2	2018.8	1854.3	1717.2	1631.5	1590.4	1545.8	1542.4
32.5°	5110.4	3729.1	2382.1	2063.3	1871.4	1696.6	1580.1	1511.5	1422.4	1374.4	1367.6
35°	5336.6	3756.5	2258.7	1919.4	1724.0	1566.4	1497.8	1384.7	1299.0	1257.9	1254.5
37.5°	5576.5	3777.1	2125.0	1792.6	1590.4	1480.7	1412.1	1278.5	1203.0	1141.4	1134.5
40°	5830.2	3777.1	1987.9	1669.2	1484.1	1443.0	1312.7	1192.8	1065.9	1035.1	1028.2
42.5°	6111.2	3770.2	1850.8	1549.2	1384.7	1357.3	1254.5	1127.6	1062.5	1035.1	1028.2
45°	6409.4	3746.2	1720.6	1412.1	1281.9	1227.0	1148.2	1113.9	1086.5	1086.5	1086.5
47.5°	6748.7	3725.7	1573.2	1288.7	1206.5	1144.8	1086.5	1065.9	1062.5	1072.8	1083.1
50°	7184.0	3718.8	1449.8	1199.6	1148.2	1076.2	1069.4	1052.2	1055.7	1055.7	1055.7
52.5°	7711.8	3657.1	1333.3	1134.5	1089.9	1004.3	1024.8	1042.0	1048.8	1045.4	1042.0
55°	8099.2	3547.4	1233.9	1089.9	1048.8	976.8	1004.3	1031.7	1038.5	1028.2	1028.2
57.5°	8448.8	3393.2	1155.1	1055.7	1021.4	959.7	990.5	1018.0	1011.1	1007.7	1004.3
60°	8849.8	3245.8	1093.4	1038.5	994.0	952.8	980.3	997.4	987.1	980.3	976.8
62.5°	9285.1	3101.9	1048.8	1038.5	973.4	949.4	970.0	976.8	956.3	949.4	949.4
65°	9487.3	2875.7	1000.8	1038.5	963.1	942.6	949.4	942.6	922.0	922.0	918.6
67.5°	9154.8	2502.1	939.1	1024.8	976.8	932.3	918.6	908.3	884.3	884.3	877.4
70°	8236.3	2056.5	850.0	980.3	980.3	928.8	877.4	853.4	826.0	836.3	822.6
72.5°	7036.6	1631.5	740.3	904.9	959.7	925.4	832.9	795.2	771.2	781.5	760.9
75°	5699.9	1264.7	610.1	784.9	908.3	908.3	788.3	736.9	709.5	709.5	685.5
77.5°	3633.1	935.7	497.0	651.2	815.7	884.3	750.6	671.8	630.7	620.4	603.2
80°	1799.4	658.1	407.9	517.6	695.8	829.5	723.2	596.4	538.1	517.6	486.7
82.5°	956.3	455.9	325.6	404.4	555.3	747.2	688.9	514.1	442.1	411.3	377.0
85°	428.4	281.1	260.5	308.5	421.6	613.5	620.4	421.6	339.3	404.4	298.2
87.5°	157.7	126.8	126.8	157.7	243.4	257.1	438.7	270.8	215.9	147.4	116.5
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)