

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: P399967

Luminaire Tested: **ARCH-L-PA3-210-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399967
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-PA3-210-830-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 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: 23930 lumens
Efficiency: N/A
Efficacy: 113.4 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

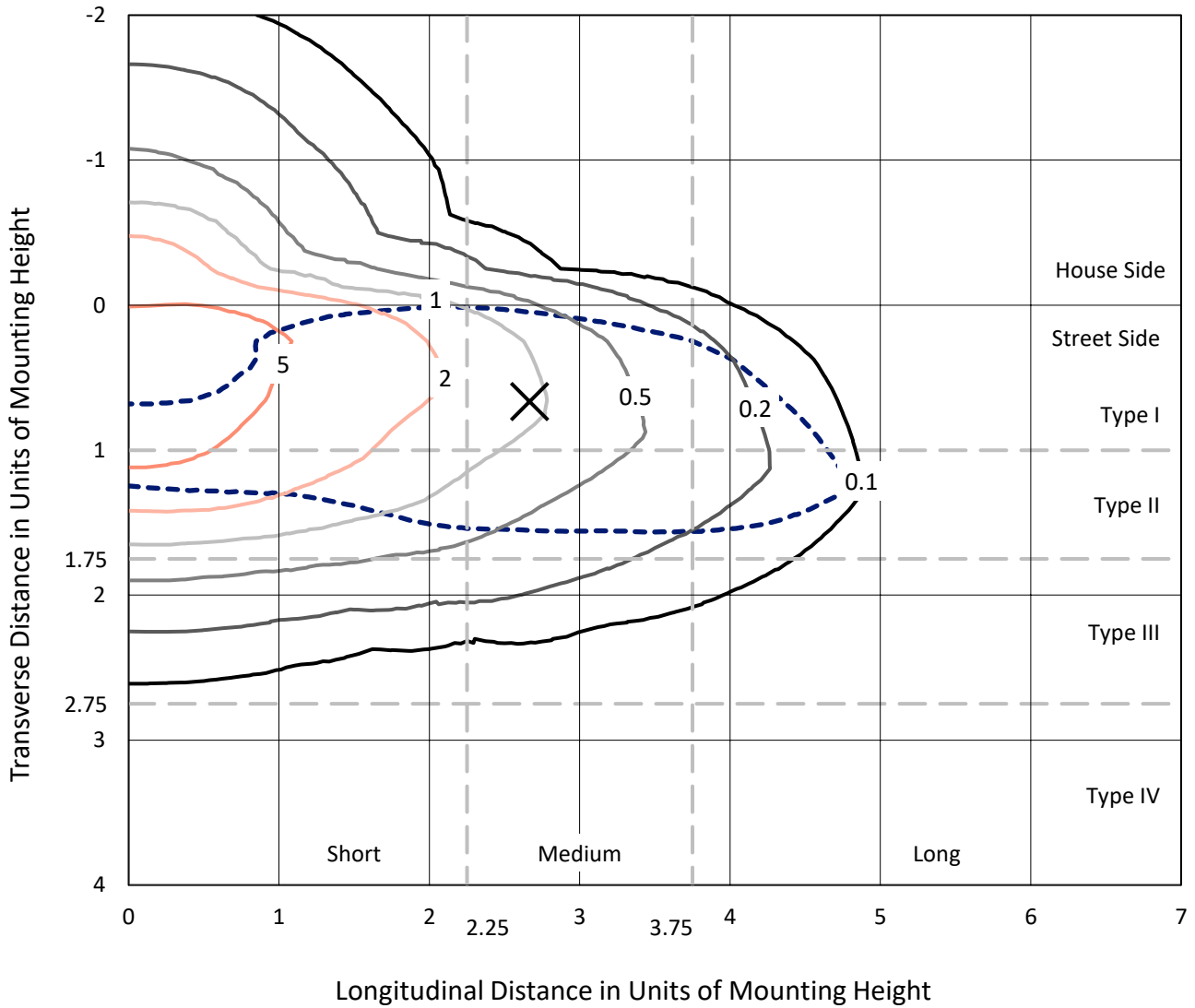
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

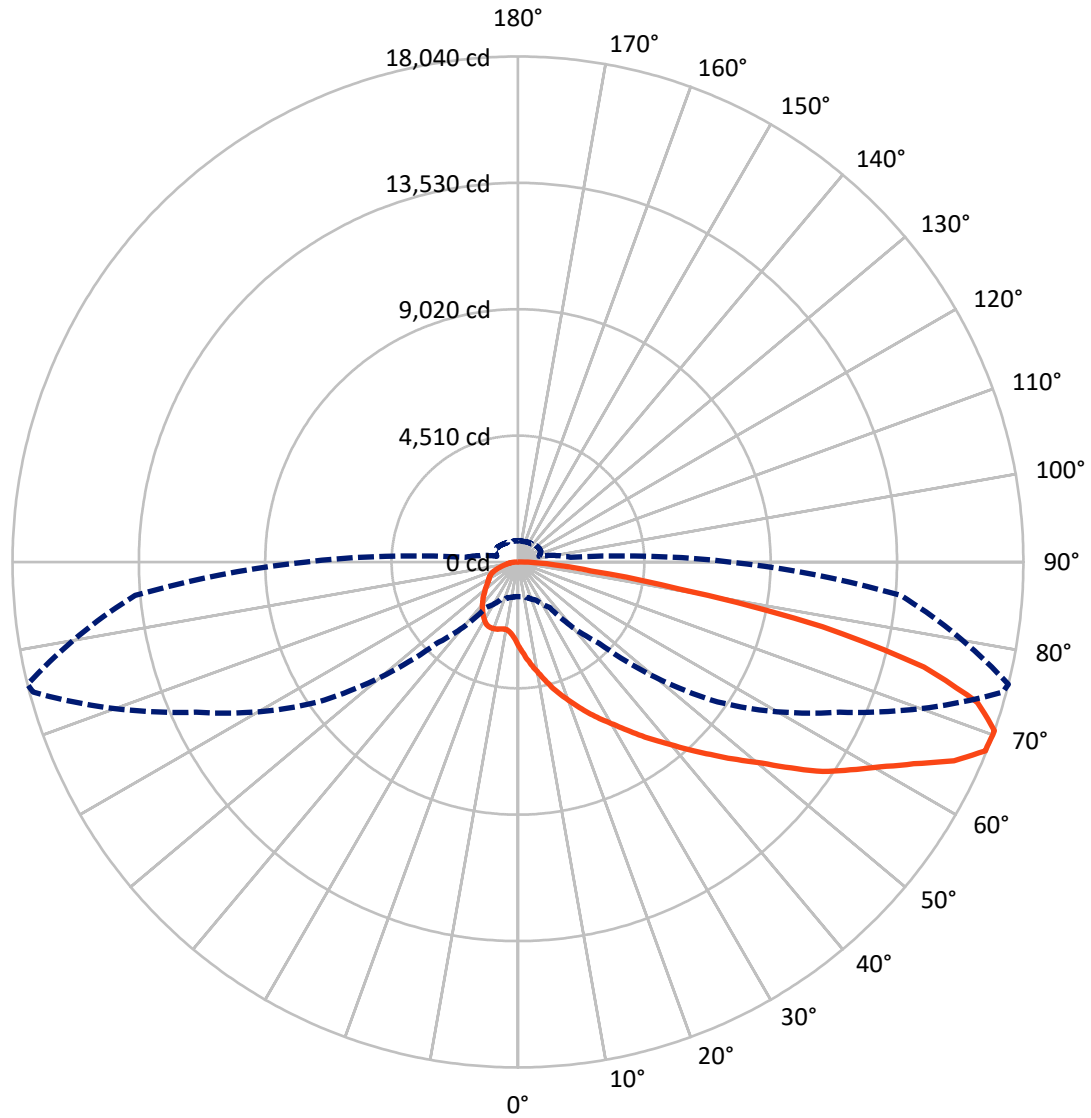
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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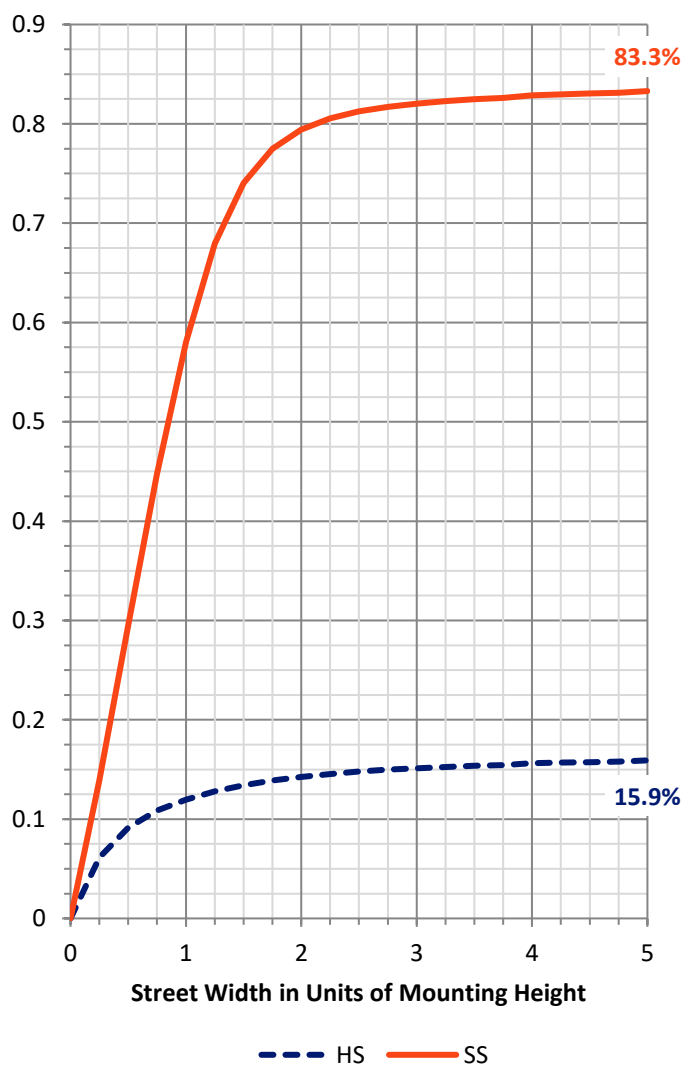
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3906.8	0.0	3906.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	20023.2	0.0	20023.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	23930.0	0.0	23930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	1.3
10°-20°	1056.8	4.4
20°-30°	1890.7	7.9
30°-40°	3058.5	12.8
40°-50°	4424.6	18.5
50°-60°	5064.2	21.2
60°-70°	4658.5	19.5
70°-80°	2880.8	12.0
80°-90°	585.0	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°	23930.0	100.0
0°-180°	23930.0	100.0

Coefficient of Utilization



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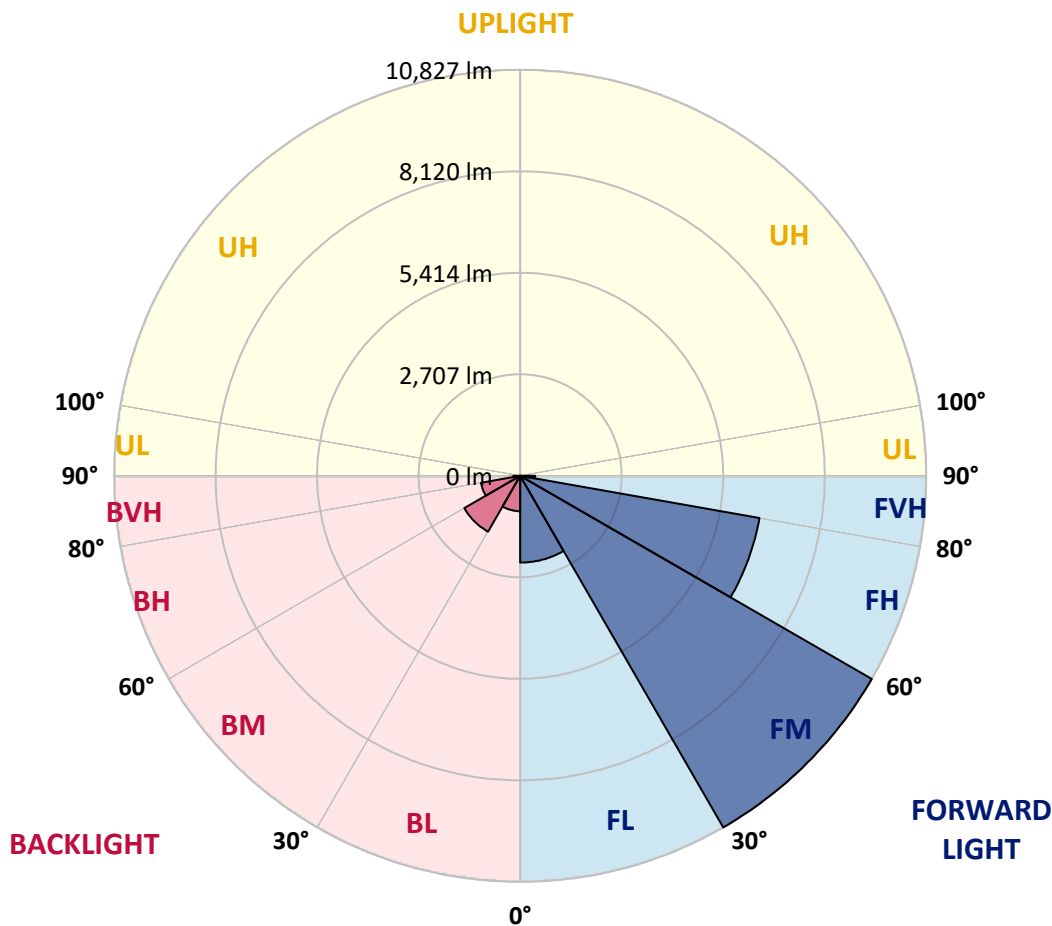
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2314.8	9.7			
FM (30°-60°)	10827.2	45.2			
FH (60°-80°)	6479.6	27.1			G3/7500
FVH (80°-90°)	401.6	1.7			G3/500
BL (0°-30°)	943.6	3.9	B2/1000		
BM (30°-60°)	1720.1	7.2	B2/2500		
BH (60°-80°)	1059.7	4.4	B3/2500		G3/2500
BVH (80°-90°)	183.4	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°	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5
2.5°	3813.8	3785.5	3782.4	3738.3	3697.4	3587.3	3508.6	3370.2	3231.7	3228.6	3090.1
5°	4408.6	4380.3	4364.5	4311.0	4241.8	4097.1	3955.5	3741.5	3505.5	3489.7	3228.6
7.5°	4811.4	4786.2	4754.7	4732.7	4666.6	4537.6	4364.5	4109.6	3785.5	3754.1	3389.0
10°	5082.0	5066.2	5060.0	5044.2	5003.3	4899.5	4732.7	4462.1	4065.6	4031.0	3559.0
12.5°	5198.4	5192.1	5220.4	5264.5	5280.2	5239.3	5078.8	4824.0	4374.0	4336.2	3763.5
15°	5063.1	5069.4	5141.8	5292.8	5453.3	5541.4	5447.0	5198.4	4723.3	4669.8	4002.7
17.5°	5000.2	5009.6	5060.0	5204.7	5431.3	5705.0	5749.1	5554.0	5060.0	4984.4	4254.4
20°	5110.3	5122.9	5160.7	5273.9	5431.3	5723.9	5953.6	5893.8	5390.4	5311.7	4496.7
22.5°	5390.4	5406.1	5403.0	5475.3	5582.3	5783.7	6066.9	6214.8	5736.5	5648.4	4748.4
25°	5988.2	5975.7	5868.7	5834.1	5862.4	5991.4	6218.0	6523.2	6098.4	6010.3	5012.8
27.5°	6800.1	6784.4	6589.3	6413.1	6255.7	6312.4	6431.9	6771.8	6466.5	6365.9	5264.5
30°	7668.6	7649.7	7423.2	7136.8	6787.5	6705.7	6690.0	6988.9	6837.9	6730.9	5532.0
32.5°	8515.1	8499.3	8257.0	7923.5	7442.0	7196.6	7045.5	7231.2	7259.5	7155.7	5824.6
35°	9286.0	9286.0	9078.3	8681.9	8137.5	7766.2	7517.6	7530.1	7744.1	7624.5	6158.2
37.5°	9972.0	9968.9	9742.3	9352.1	8829.7	8404.9	8096.6	7892.0	8206.7	8102.9	6507.5
40°	10516.4	10494.4	10327.6	9987.7	9462.2	9040.6	8729.1	8316.8	8722.8	8628.4	6878.8
42.5°	10912.9	10900.3	10787.0	10491.2	9990.9	9594.4	9380.4	8851.8	9308.1	9213.7	7313.0
45°	11067.1	11092.3	11092.3	10812.2	10415.7	10053.8	9959.4	9440.2	9940.5	9846.1	7778.7
47.5°	10818.5	10884.6	11019.9	11038.8	10689.5	10444.0	10475.5	10031.8	10591.9	10541.6	8288.5
50°	10041.2	10164.0	10459.8	10994.7	10799.6	10743.0	10916.0	10636.0	11290.5	11274.8	8908.4
52.5°	8036.8	8335.7	9257.7	10217.5	10724.1	10881.4	11353.4	11315.7	12190.5	12215.6	9717.1
55°	6164.5	6277.7	7344.5	8977.6	10261.5	10837.4	11646.1	11979.6	13166.0	13197.4	10459.8
57.5°	4984.4	5060.0	5642.1	7344.5	9207.4	10598.2	11875.8	12366.7	13914.9	13996.7	11120.6
60°	3949.2	4059.3	4449.5	5620.1	7731.5	10022.4	12036.3	12797.8	14720.4	14843.2	11910.4
62.5°	2935.9	2989.4	3357.6	4163.1	6120.4	8987.1	11951.3	13266.7	15708.5	15856.4	12860.7
65°	2089.4	2136.6	2397.8	2961.1	4525.0	7586.8	11457.3	13615.9	16948.3	17099.4	13817.3
67.5°	1563.9	1582.8	1730.7	2070.6	3049.2	5893.8	10456.6	13556.2	17854.6	17989.9	14201.2
70°	1236.7	1243.0	1315.3	1497.8	1982.4	4103.3	8703.9	12678.2	17920.7	18040.3	13716.6
72.5°	1025.8	1022.7	1063.6	1151.7	1381.4	2596.1	6447.7	11048.2	17071.1	17152.9	12363.5
75°	846.5	852.8	881.1	931.4	1054.2	1711.8	4178.9	8814.0	15060.3	14972.2	10374.8
77.5°	711.2	708.0	720.6	764.7	852.8	1230.4	2448.2	6369.0	11161.5	11117.4	6809.5
80°	572.7	579.0	597.9	635.6	717.5	937.7	1447.5	3974.3	5988.2	5827.8	3253.7
82.5°	383.9	443.7	481.5	525.5	619.9	692.3	918.8	2020.2	2677.9	2637.0	1475.8
85°	182.5	242.3	358.7	409.1	503.5	434.2	623.1	962.9	1340.5	1324.8	531.8
87.5°	37.8	37.8	192.0	229.7	311.5	185.7	346.1	418.5	648.2	607.3	217.1
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°	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5	2992.5
2.5°	3008.3	2923.3	2753.4	2618.1	2479.6	2401.0	2303.4	2256.2	2246.8	2221.6	2240.5
5°	3061.8	2895.0	2574.0	2363.2	2221.6	2152.4	2117.8	2105.2	2102.0	2095.7	2095.7
7.5°	3134.2	2879.3	2460.7	2246.8	2155.5	2133.5	2142.9	2161.8	2165.0	2171.2	2168.1
10°	3222.3	2882.4	2397.8	2218.5	2174.4	2177.5	2209.0	2234.2	2246.8	2256.2	2253.1
12.5°	3345.0	2920.2	2388.4	2237.3	2218.5	2231.0	2262.5	2287.7	2300.3	2303.4	2303.4
15°	3505.5	2998.8	2410.4	2278.2	2262.5	2271.9	2290.8	2300.3	2303.4	2300.3	2300.3
17.5°	3681.7	3093.2	2441.9	2303.4	2278.2	2268.8	2262.5	2253.1	2234.2	2221.6	2221.6
20°	3851.6	3178.2	2457.6	2300.3	2256.2	2218.5	2180.7	2133.5	2102.0	2076.8	2076.8
22.5°	4021.5	3256.9	2457.6	2265.7	2196.4	2124.0	2045.4	1969.9	1922.7	1891.2	1891.2
25°	4200.9	3332.4	2438.7	2205.9	2102.0	1998.2	1891.2	1796.8	1749.6	1718.1	1711.8
27.5°	4351.9	3376.5	2388.4	2120.9	1985.6	1853.4	1730.7	1633.2	1598.5	1570.2	1570.2
30°	4512.4	3404.8	2294.0	2010.8	1853.4	1702.4	1576.5	1497.8	1460.1	1419.2	1416.0
32.5°	4691.8	3423.7	2187.0	1894.3	1718.1	1557.6	1450.6	1387.7	1305.9	1261.8	1255.5
35°	4899.5	3448.8	2073.7	1762.2	1582.8	1438.1	1375.1	1271.3	1192.6	1154.9	1151.7
37.5°	5119.7	3467.7	1951.0	1645.7	1460.1	1359.4	1296.5	1173.7	1104.5	1047.9	1041.6
40°	5352.6	3467.7	1825.1	1532.5	1362.5	1324.8	1205.2	1095.1	978.6	950.3	944.0
42.5°	5610.6	3461.4	1699.2	1422.3	1271.3	1246.1	1151.7	1035.3	975.5	950.3	944.0
45°	5884.4	3439.4	1579.7	1296.5	1176.9	1126.5	1054.2	1022.7	997.5	997.5	997.5
47.5°	6195.9	3420.5	1444.4	1183.2	1107.7	1051.0	997.5	978.6	975.5	984.9	994.4
50°	6595.6	3414.2	1331.1	1101.4	1054.2	988.1	981.8	966.0	969.2	969.2	969.2
52.5°	7080.2	3357.6	1224.1	1041.6	1000.7	922.0	940.9	956.6	962.9	959.8	956.6
55°	7435.7	3256.9	1132.8	1000.7	962.9	896.8	922.0	947.2	953.5	944.0	944.0
57.5°	7756.7	3115.3	1060.5	969.2	937.7	881.1	909.4	934.6	928.3	925.1	922.0
60°	8124.9	2980.0	1003.8	953.5	912.6	874.8	900.0	915.7	906.3	900.0	896.8
62.5°	8524.5	2847.8	962.9	953.5	893.7	871.6	890.5	896.8	877.9	871.6	871.6
65°	8710.2	2640.1	918.8	953.5	884.2	865.4	871.6	865.4	846.5	846.5	843.3
67.5°	8404.9	2297.1	862.2	940.9	896.8	855.9	843.3	833.9	811.9	811.9	805.6
70°	7561.6	1888.0	780.4	900.0	900.0	852.8	805.6	783.5	758.4	767.8	755.2
72.5°	6460.3	1497.8	679.7	830.7	881.1	849.6	764.7	730.0	708.0	717.5	698.6
75°	5233.0	1161.1	560.1	720.6	833.9	833.9	723.7	676.5	651.4	651.4	629.3
77.5°	3335.5	859.1	456.3	597.9	748.9	811.9	689.1	616.8	579.0	569.6	553.8
80°	1652.0	604.2	374.5	475.2	638.8	761.5	664.0	547.5	494.0	475.2	446.8
82.5°	877.9	418.5	298.9	371.3	509.8	686.0	632.5	472.0	405.9	377.6	346.1
85°	393.3	258.0	239.2	283.2	387.0	563.3	569.6	387.0	311.5	371.3	273.8
87.5°	144.7	116.4	116.4	144.7	223.4	236.0	402.8	248.6	198.2	135.3	107.0
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)