

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: McGRAW-EDISON

Report Number: P459111

Luminaire Tested: **GALN-SA6A-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25406 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

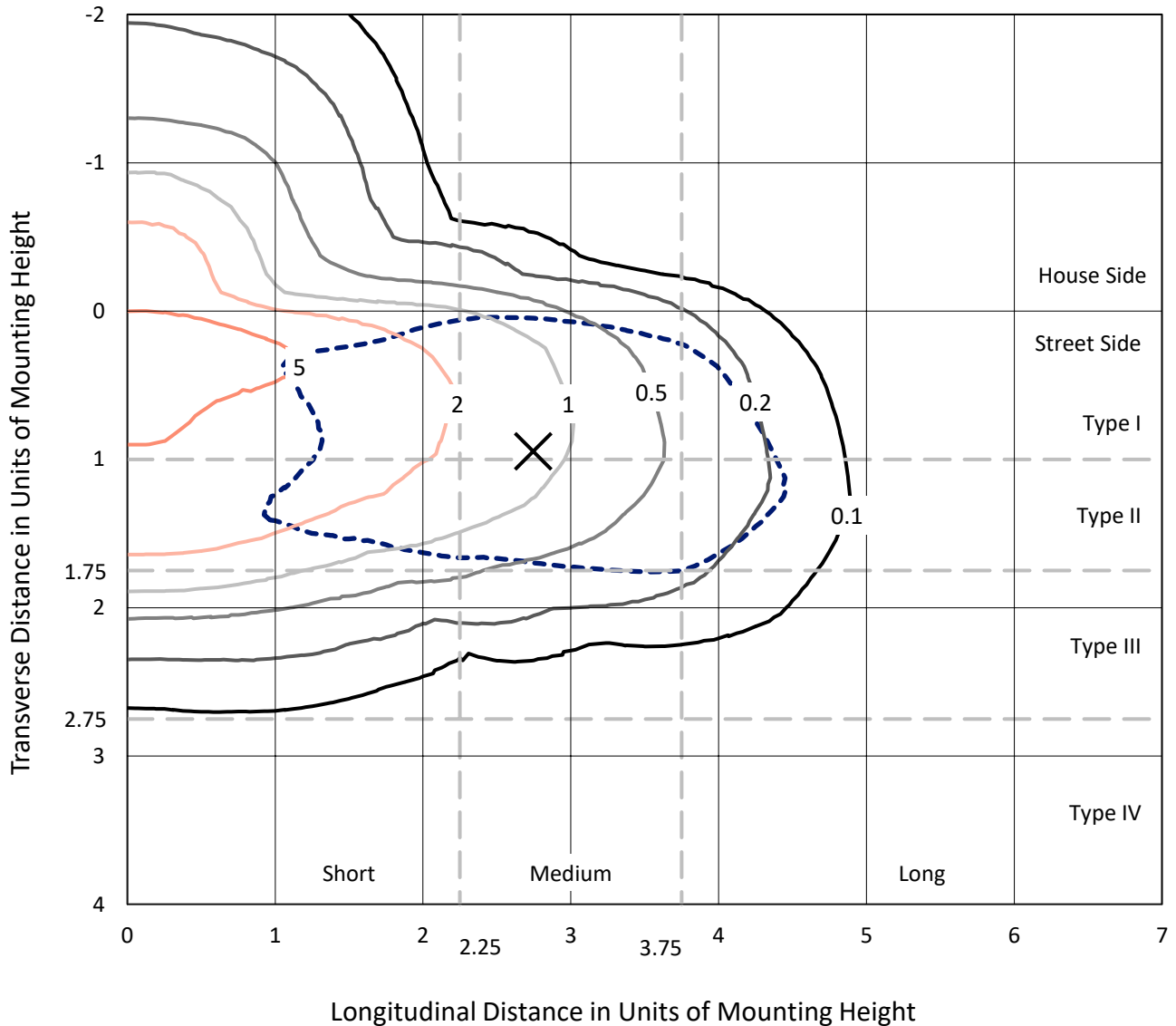
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

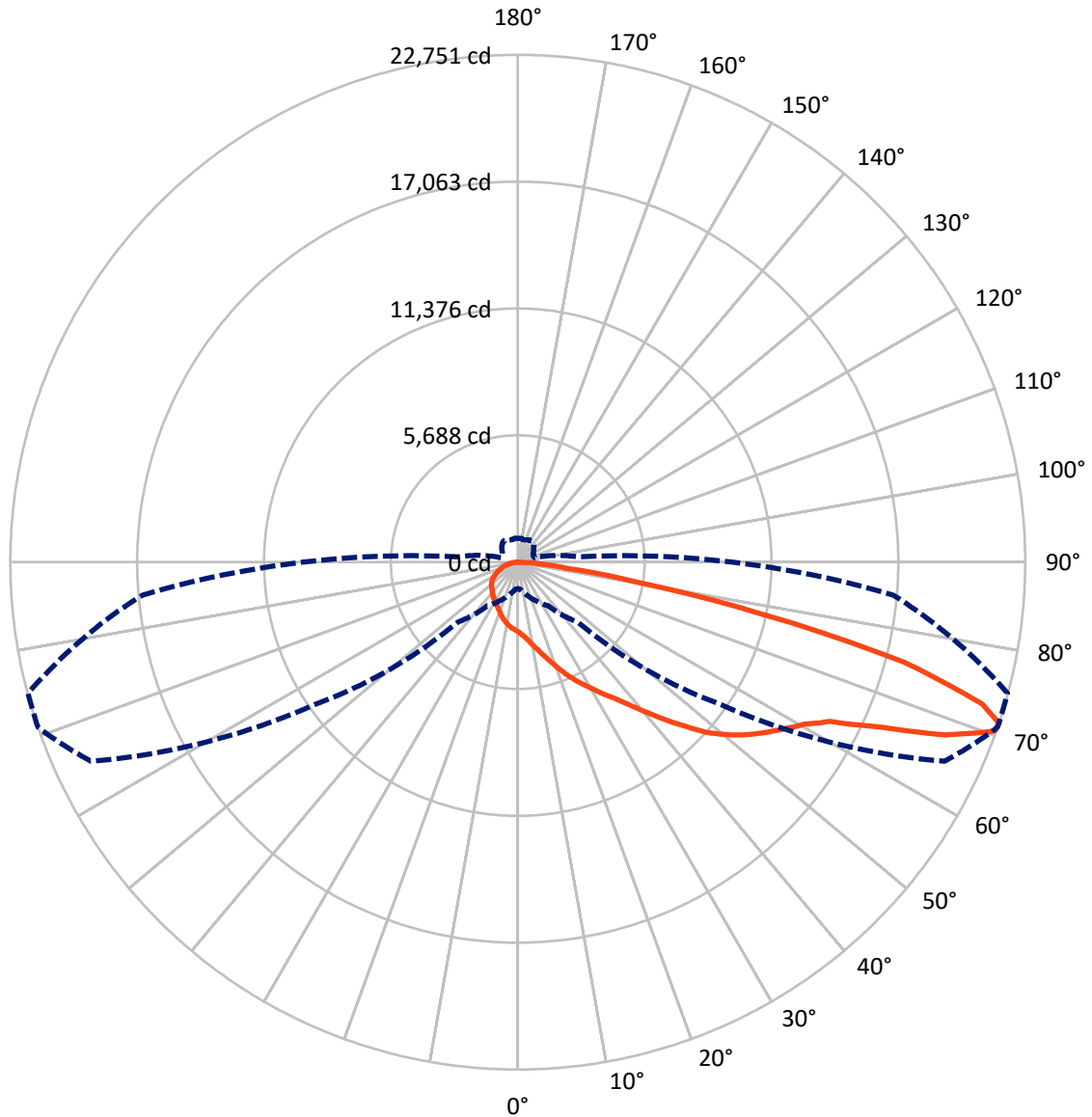
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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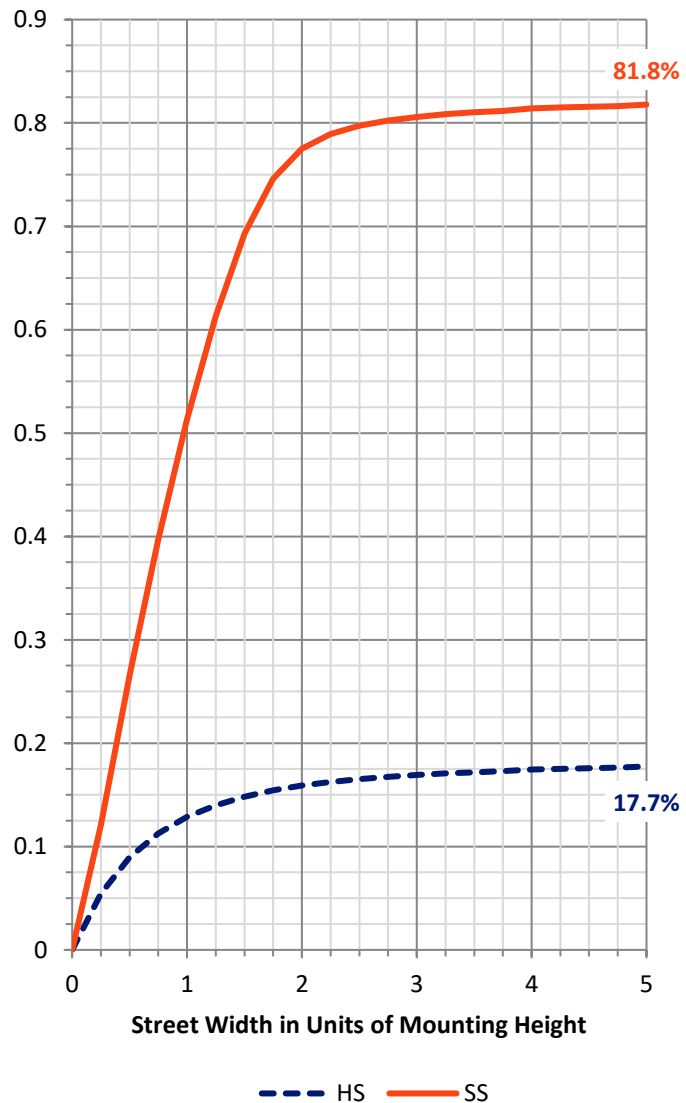
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4569.2	0.0	4569.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	20836.8	0.0	20836.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	25406.0	0.0	25406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.2
10°-20°	1017.2	4.0
20°-30°	1777.6	7.0
30°-40°	2643.9	10.4
40°-50°	3895.5	15.3
50°-60°	5453.7	21.5
60°-70°	6099.8	24.0
70°-80°	3726.0	14.7
80°-90°	479.3	1.9
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°	25406.0	100.0
0°-180°	25406.0	100.0

Coefficient of Utilization



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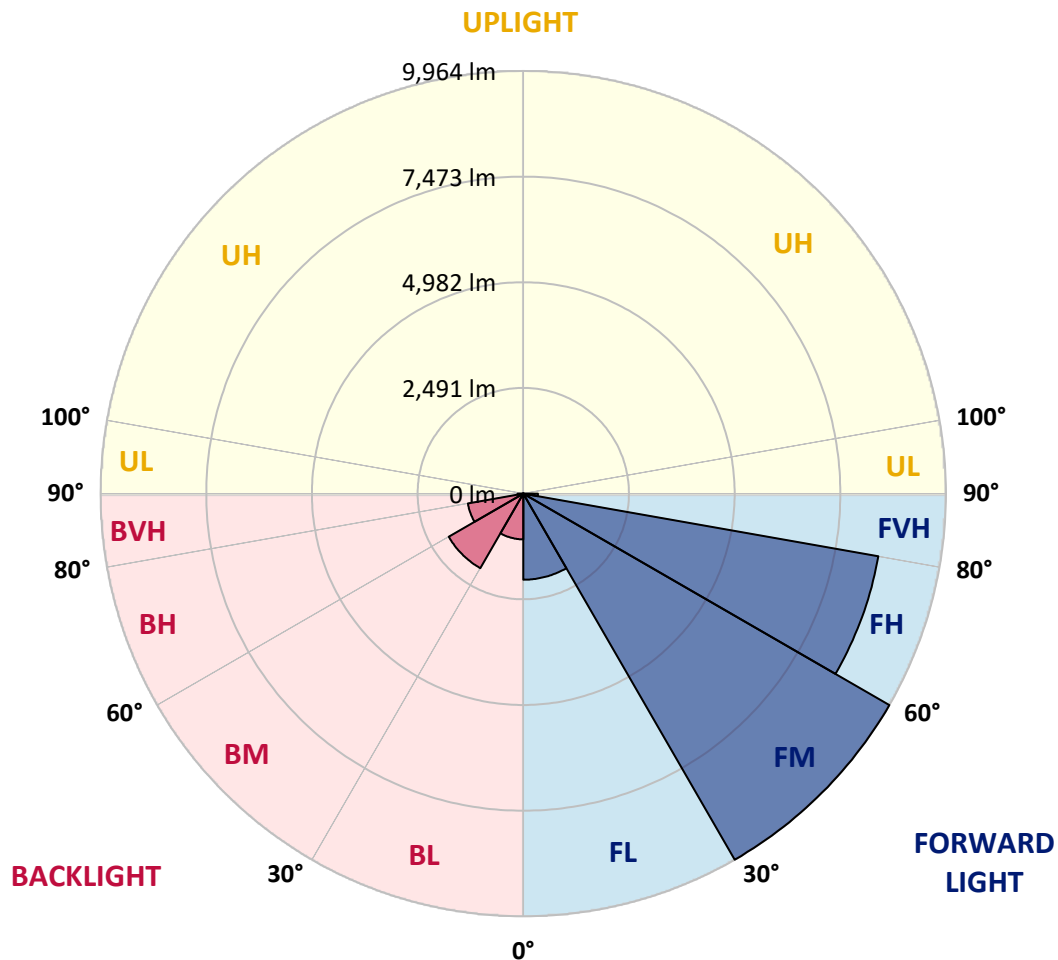
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2030.0	8.0			
FM	(30°-60°)	9963.7	39.2			
FH	(60°-80°)	8498.2	33.4			G4/12000
FVH	(80°-90°)	344.9	1.4			G3/500
BL	(0°-30°)	1077.9	4.2	B3/2500		
BM	(30°-60°)	2029.4	8.0	B2/2500		
BH	(60°-80°)	1327.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	134.4	0.5			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°	71°	75°	85°
0°	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1
2.5°	3461.6	3444.8	3446.2	3422.5	3391.8	3358.3	3310.8	3268.9	3235.4	3215.8	3158.6
5°	3835.8	3819.1	3798.1	3746.5	3724.1	3641.7	3537.0	3442.0	3369.4	3328.9	3214.4
7.5°	4138.8	4134.6	4129.1	4099.7	4042.5	3928.0	3838.6	3673.8	3566.3	3489.5	3294.0
10°	4325.9	4332.9	4337.1	4342.7	4319.0	4258.9	4136.0	3928.0	3791.1	3693.4	3397.4
12.5°	4420.9	4427.9	4451.6	4503.3	4535.4	4528.4	4427.9	4224.0	4035.5	3907.0	3507.7
15°	4479.5	4490.7	4532.6	4601.0	4708.5	4777.0	4728.1	4539.6	4332.9	4180.7	3638.9
17.5°	4543.8	4556.3	4602.4	4700.2	4841.2	4989.2	5042.3	4880.3	4655.5	4474.0	3785.5
20°	4580.1	4596.8	4662.5	4790.9	4955.7	5170.7	5346.7	5261.5	5015.7	4814.7	3954.5
22.5°	4638.7	4652.7	4708.5	4845.4	5042.3	5311.8	5651.1	5632.9	5416.5	5156.8	4140.2
25°	4797.9	4820.3	4848.2	4930.6	5120.5	5455.6	5903.8	6029.5	5804.7	5514.2	4310.6
27.5°	5098.1	5116.3	5114.9	5126.1	5233.6	5579.9	6123.1	6421.9	6190.1	5875.9	4475.4
30°	5440.2	5447.2	5452.8	5427.7	5451.4	5706.9	6324.1	6810.1	6578.3	6247.3	4619.2
32.5°	5856.4	5870.3	5822.8	5758.6	5739.1	5895.5	6490.3	7198.3	7037.7	6624.4	4761.6
35°	6347.9	6384.2	6287.8	6174.7	6095.1	6166.4	6713.7	7594.8	7508.3	7106.1	4950.1
37.5°	6909.2	6953.9	6864.5	6642.5	6529.4	6549.0	7005.6	8085.0	8103.1	7654.9	5230.8
40°	7368.6	7427.3	7430.1	7115.9	6944.1	6966.5	7375.6	8612.8	8820.8	8333.5	5561.7
42.5°	7671.6	7728.9	7788.9	7604.6	7424.5	7551.5	7807.1	9185.3	9627.9	9157.4	6023.9
45°	8004.0	8055.6	8089.1	8005.4	7904.8	8234.4	8327.9	9794.1	10488.1	10077.6	6529.4
47.5°	8389.4	8446.6	8478.7	8399.1	8361.4	8833.4	8889.3	10362.4	11406.9	10971.2	7088.0
50°	8903.2	8946.5	8929.8	8879.5	8871.1	9292.8	9428.3	10894.4	12165.1	11933.3	7667.4
52.5°	9542.8	9594.4	9612.6	9541.4	9509.3	9621.0	9862.5	11379.0	12854.9	12760.0	8286.0
55°	9929.6	10011.9	10288.4	10400.1	10476.9	10045.5	10330.3	11913.8	13473.5	13631.3	8950.7
57.5°	9433.8	9540.0	10158.6	10717.1	11439.0	11106.7	10993.6	12472.3	14092.1	14476.1	9746.6
60°	8224.6	8248.3	9045.7	10074.8	11527.0	12470.9	12377.4	13360.4	14762.4	15327.9	10795.3
62.5°	5705.6	5755.8	6698.4	8340.5	10440.6	12962.5	14731.7	14893.6	15723.1	16602.8	12332.7
65°	2942.1	2876.5	3735.3	5242.0	7871.3	11795.1	16639.1	17712.9	17806.5	18596.8	14497.1
67.5°	1811.1	1840.4	2242.6	3060.8	4654.1	8572.3	16439.4	21157.7	20664.8	21044.6	16506.4
70°	1360.1	1396.4	1672.8	2094.5	2837.4	4901.2	13220.8	21992.8	22681.2	22583.4	17118.1
71°	1182.7	1220.4	1508.1	1906.0	2383.6	3782.8	11138.8	21118.6	22751.0	22734.2	16887.7
72.5°	1008.2	1031.9	1256.7	1614.2	2009.4	2651.7	8368.4	18940.3	21780.5	22337.7	16065.2
75°	791.7	809.9	910.4	1231.6	1582.1	1628.2	4490.7	14199.6	17888.8	18950.1	13374.4
77.5°	645.1	657.7	709.4	914.6	1220.4	1153.4	2355.7	9242.5	11207.2	12275.5	7878.3
80°	512.5	526.4	557.2	620.0	914.6	822.5	1124.1	4683.4	5413.7	5402.5	3144.6
82.5°	398.0	402.2	438.5	455.2	625.6	583.7	608.8	1982.8	2196.5	2269.1	1135.2
85°	251.3	263.9	388.2	349.1	374.2	342.1	300.2	787.6	970.5	956.5	453.8
87.5°	76.8	81.0	131.3	148.0	166.2	149.4	110.3	231.8	283.5	307.2	113.1
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°	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1	3118.1
2.5°	3136.2	3120.9	3066.4	3021.7	2979.8	2933.8	2894.7	2883.5	2873.7	2869.5	2868.1
5°	3165.6	3119.5	3012.0	2924.0	2854.2	2789.9	2749.4	2731.3	2713.1	2713.1	2718.7
7.5°	3207.5	3123.7	2957.5	2826.2	2738.3	2678.2	2648.9	2646.1	2650.3	2654.5	2655.9
10°	3253.5	3120.9	2877.9	2714.5	2636.3	2608.4	2609.8	2633.5	2655.9	2672.6	2675.4
12.5°	3298.2	3104.1	2784.4	2609.8	2559.5	2565.1	2604.2	2657.3	2700.6	2724.3	2725.7
15°	3348.5	3077.6	2671.2	2510.7	2493.9	2537.2	2609.8	2690.8	2756.4	2795.5	2799.7
17.5°	3390.4	3032.9	2552.6	2414.3	2435.3	2514.9	2615.4	2720.1	2799.7	2848.6	2857.0
20°	3437.9	2975.7	2429.7	2322.2	2382.2	2489.7	2604.2	2717.3	2799.7	2847.2	2858.4
22.5°	3475.6	2894.7	2312.4	2246.8	2334.7	2459.0	2566.5	2657.3	2724.3	2749.4	2766.2
25°	3490.9	2792.7	2202.1	2185.3	2297.0	2408.7	2481.3	2533.0	2554.0	2551.2	2558.1
27.5°	3482.5	2675.4	2107.1	2136.4	2249.5	2330.5	2366.8	2362.7	2324.9	2290.0	2306.8
30°	3447.6	2535.8	2027.5	2086.2	2188.1	2232.8	2227.2	2172.7	2101.5	2035.9	2040.1
32.5°	3384.8	2385.0	1953.5	2028.9	2101.5	2121.1	2083.4	2012.2	1910.2	1825.1	1812.5
35°	3331.7	2241.2	1887.9	1963.3	2015.0	2005.2	1968.9	1876.7	1784.6	1709.2	1696.6
37.5°	3323.4	2118.3	1825.1	1889.3	1918.6	1904.6	1860.0	1781.8	1748.3	1691.0	1684.0
40°	3368.0	2031.7	1760.8	1811.1	1825.1	1813.9	1765.0	1720.3	1751.0	1737.1	1737.1
42.5°	3489.5	1985.6	1703.6	1732.9	1744.1	1752.4	1717.5	1679.8	1717.5	1653.3	1632.4
45°	3682.2	1987.0	1651.9	1656.1	1689.6	1718.9	1695.2	1639.3	1619.8	1491.3	1466.2
47.5°	3965.7	2034.5	1610.0	1583.5	1643.5	1692.4	1658.9	1577.9	1491.3	1406.1	1390.8
50°	4296.6	2119.7	1572.3	1508.1	1582.1	1658.9	1633.7	1538.8	1449.4	1397.8	1388.0
52.5°	4663.9	2227.2	1526.2	1424.3	1506.7	1643.5	1639.3	1533.2	1410.3	1375.4	1367.0
55°	5117.7	2333.3	1469.0	1326.5	1439.7	1631.0	1624.0	1487.1	1402.0	1376.8	1374.0
57.5°	5645.5	2486.9	1386.6	1227.4	1362.9	1579.3	1563.9	1459.2	1374.0	1355.9	1354.5
60°	6495.9	2725.7	1269.3	1136.6	1284.7	1488.5	1508.1	1411.7	1329.3	1325.2	1323.8
62.5°	7614.4	3060.8	1147.8	1043.1	1193.9	1371.2	1427.1	1347.5	1281.9	1302.8	1305.6
65°	9158.8	3342.9	1022.1	963.5	1093.4	1258.1	1350.3	1287.4	1228.8	1269.3	1269.3
67.5°	10165.5	3348.5	907.6	881.1	991.4	1163.2	1269.3	1216.2	1160.4	1228.8	1231.6
70°	9956.1	2933.8	812.7	794.5	892.3	1061.2	1179.9	1138.0	1073.8	1135.2	1112.9
71°	9618.2	2703.4	775.0	761.0	853.2	1012.4	1138.0	1103.1	1038.9	1079.4	1066.8
72.5°	9079.2	2347.3	713.5	716.3	794.5	950.9	1079.4	1043.1	978.9	1001.2	997.0
75°	7674.4	2049.9	610.2	622.8	682.8	846.2	962.1	934.2	868.5	868.5	864.4
77.5°	4797.9	1432.7	506.9	513.9	579.5	724.7	826.6	802.9	740.1	719.1	713.5
80°	1790.1	740.1	396.6	404.9	445.4	571.1	684.2	661.9	597.6	573.9	551.6
82.5°	677.2	371.4	291.8	284.9	328.1	435.7	536.2	509.7	459.4	402.2	385.4
85°	255.5	184.3	178.7	173.1	192.7	258.3	332.3	326.7	273.7	233.2	229.0
87.5°	67.0	60.0	69.8	51.7	54.5	48.9	50.3	20.9	9.8	4.2	2.8
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)