

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: P453282

Luminaire Tested: **GALN-SA4B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453282
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-SA4B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22638 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

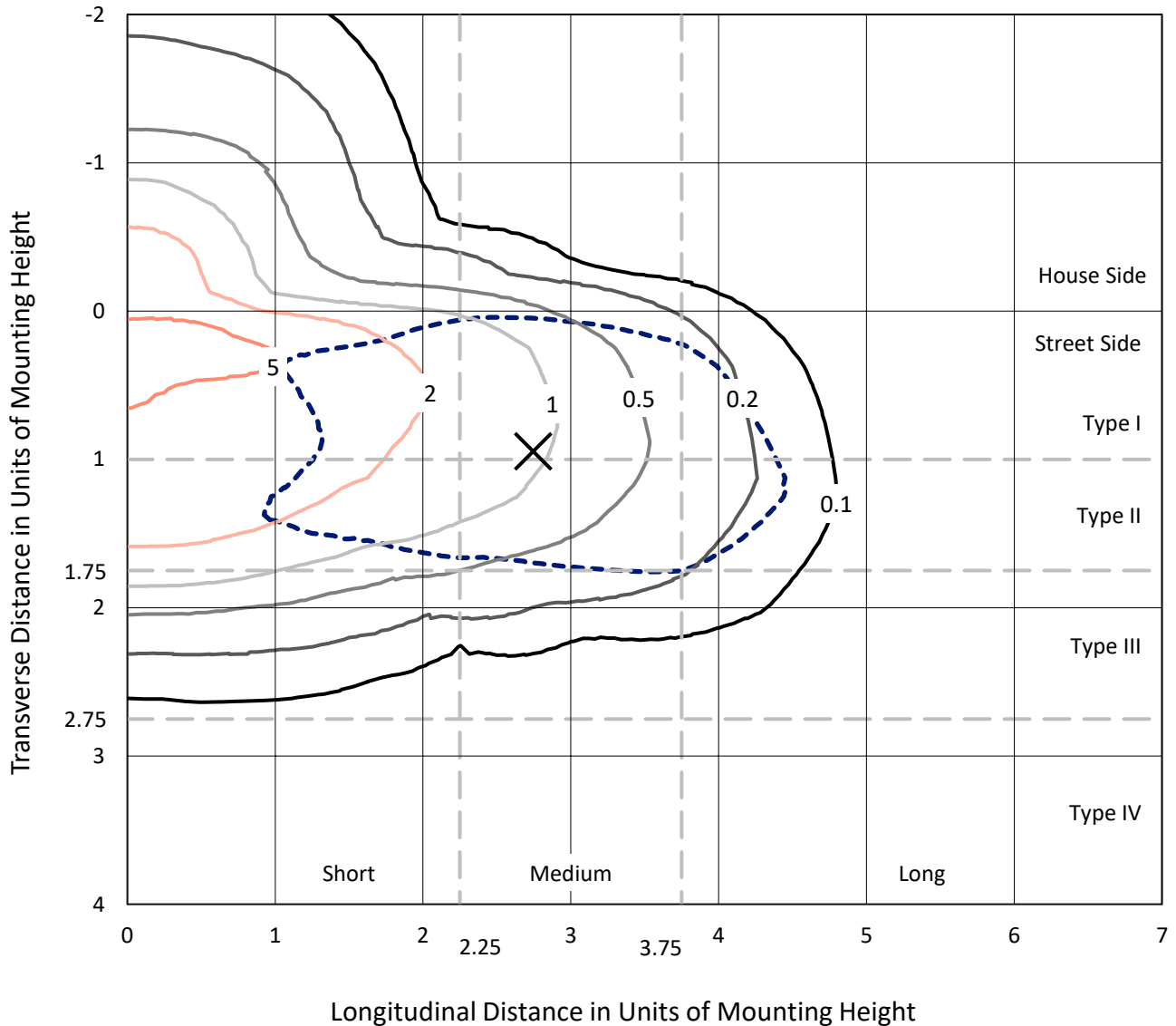
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

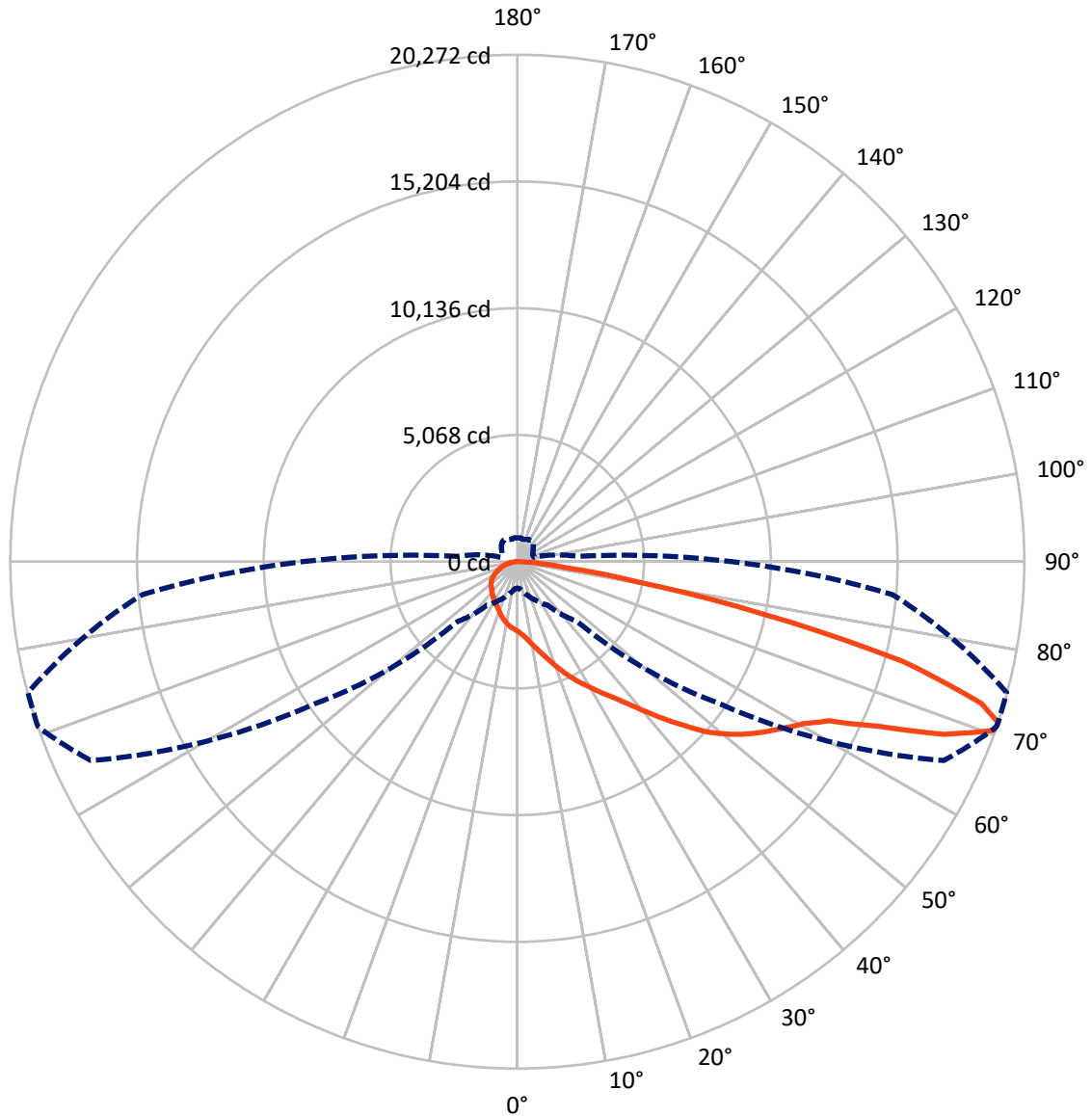
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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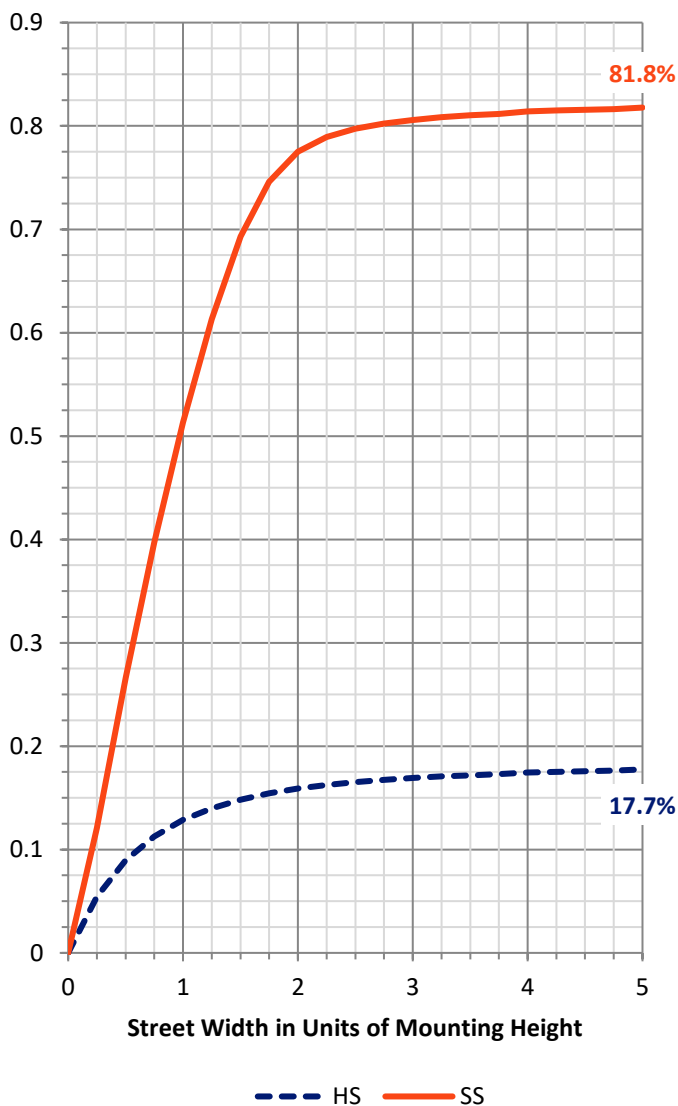
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4071.4	0.0	4071.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	18566.6	0.0	18566.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	22638.0	0.0	22638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	1.2
10°-20°	906.3	4.0
20°-30°	1583.9	7.0
30°-40°	2355.9	10.4
40°-50°	3471.1	15.3
50°-60°	4859.5	21.5
60°-70°	5435.2	24.0
70°-80°	3320.0	14.7
80°-90°	427.1	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°	22638.0	100.0
0°-180°	22638.0	100.0

Coefficient of Utilization



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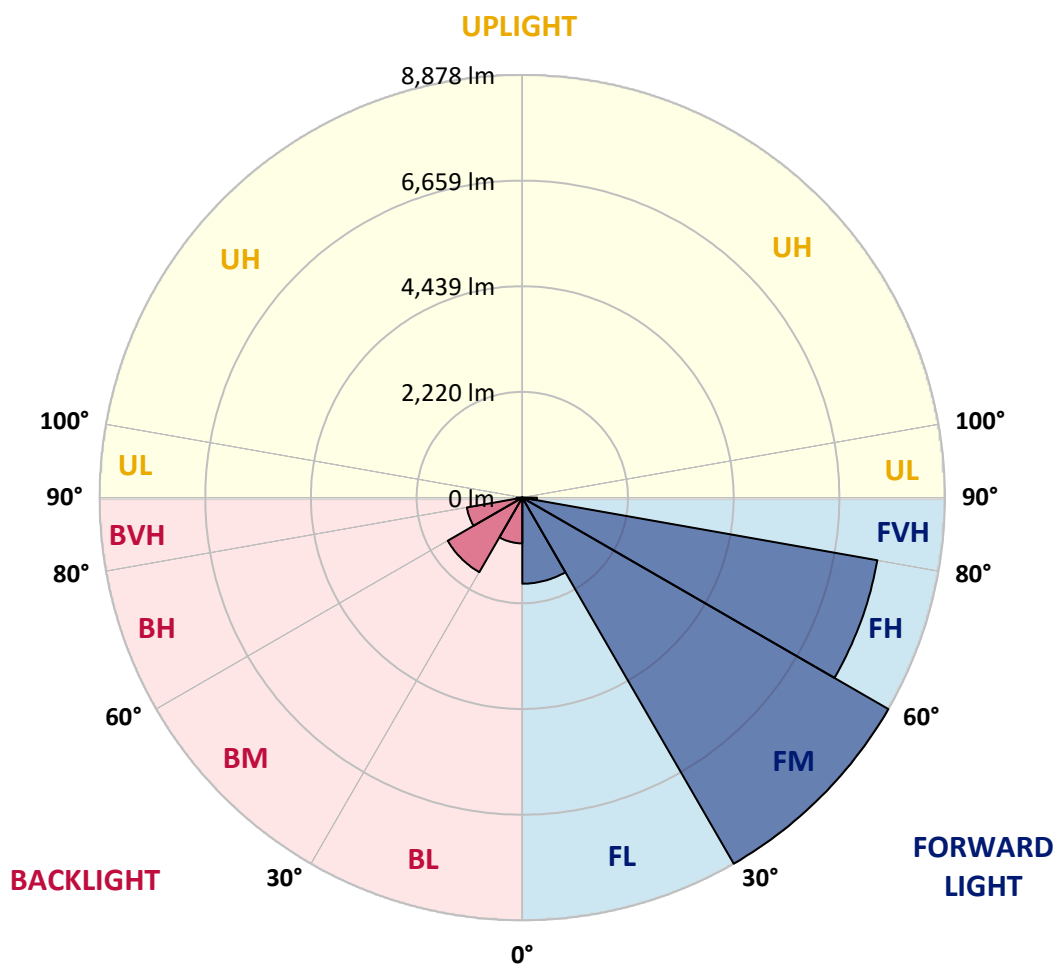
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.8	8.0			
FM	(30°-60°)	8878.2	39.2			
FH	(60°-80°)	7572.3	33.4			G4/12000
FVH	(80°-90°)	307.3	1.4			G3/500
BL	(0°-30°)	960.4	4.2	B2/1000		
BM	(30°-60°)	1808.3	8.0	B2/2500		
BH	(60°-80°)	1182.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	119.8	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°	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4
2.5°	3084.4	3069.5	3070.8	3049.6	3022.2	2992.4	2950.1	2912.7	2882.9	2865.5	2814.5
5°	3417.9	3403.0	3384.3	3338.3	3318.4	3245.0	3151.6	3067.0	3002.3	2966.2	2864.2
7.5°	3687.9	3684.2	3679.2	3653.1	3602.0	3500.0	3420.4	3273.6	3177.8	3109.3	2935.1
10°	3854.6	3860.8	3864.6	3869.6	3848.4	3794.9	3685.4	3500.0	3378.1	3291.0	3027.2
12.5°	3939.2	3945.5	3966.6	4012.6	4041.3	4035.0	3945.5	3763.8	3595.8	3481.4	3125.5
15°	3991.5	4001.4	4038.8	4099.7	4195.5	4256.5	4213.0	4045.0	3860.8	3725.2	3242.5
17.5°	4048.7	4059.9	4101.0	4188.1	4313.7	4445.6	4492.9	4348.6	4148.3	3986.5	3373.1
20°	4081.1	4096.0	4154.5	4269.0	4415.8	4607.4	4764.2	4688.3	4469.3	4290.1	3523.7
22.5°	4133.3	4145.8	4195.5	4317.5	4492.9	4733.1	5035.4	5019.2	4826.4	4594.9	3689.1
25°	4275.2	4295.1	4320.0	4393.4	4562.6	4861.2	5260.6	5372.6	5172.3	4913.5	3840.9
27.5°	4542.7	4558.9	4557.6	4567.6	4663.4	4971.9	5456.0	5722.2	5515.7	5235.7	3987.8
30°	4847.5	4853.7	4858.7	4836.3	4857.5	5085.2	5635.1	6068.1	5861.6	5566.7	4115.9
32.5°	5218.3	5230.7	5188.4	5131.2	5113.8	5253.1	5783.2	6414.0	6270.9	5902.6	4242.8
35°	5656.3	5688.6	5602.8	5502.0	5431.1	5494.5	5982.3	6767.4	6690.2	6331.9	4410.8
37.5°	6156.5	6196.3	6116.6	5918.8	5818.0	5835.4	6242.3	7204.1	7220.3	6820.9	4660.9
40°	6565.8	6618.1	6620.6	6340.6	6187.6	6207.5	6572.0	7674.4	7859.8	7425.6	4955.8
42.5°	6835.8	6886.8	6940.3	6776.1	6615.6	6728.8	6956.5	8184.6	8579.0	8159.7	5367.6
45°	7131.9	7178.0	7207.8	7133.2	7043.6	7337.2	7420.6	8727.0	9345.4	8979.6	5818.0
47.5°	7475.3	7526.4	7555.0	7484.0	7450.5	7871.0	7920.8	9233.4	10164.1	9775.9	6315.7
50°	7933.2	7971.8	7956.9	7912.1	7904.6	8280.4	8401.0	9707.5	10839.7	10633.2	6832.1
52.5°	8503.1	8549.1	8565.3	8501.8	8473.2	8572.8	8788.0	10139.2	11454.4	11369.8	7383.3
55°	8847.7	8921.1	9167.5	9267.0	9335.5	8951.0	9204.8	10615.8	12005.6	12146.2	7975.5
57.5°	8406.0	8500.6	9051.8	9549.5	10192.7	9896.6	9795.8	11113.5	12556.8	12898.9	8684.7
60°	7328.5	7349.7	8060.1	8977.1	10271.1	11112.2	11028.9	11904.8	13154.0	13657.9	9619.2
62.5°	5083.9	5128.7	5968.6	7431.8	9303.1	11550.2	13126.6	13271.0	14010.0	14793.9	10989.0
65°	2621.6	2563.1	3328.3	4670.8	7013.7	10510.0	14826.3	15783.1	15866.4	16570.7	12917.6
67.5°	1613.8	1639.9	1998.2	2727.4	4147.0	7638.3	14648.3	18852.6	18413.4	18751.8	14708.1
70°	1211.9	1244.2	1490.6	1866.3	2528.3	4367.3	11780.4	19596.6	20210.0	20122.9	15253.0
71°	1053.9	1087.5	1343.8	1698.4	2123.9	3370.6	9925.2	18817.8	20272.3	20257.3	15047.7
72.5°	898.3	919.5	1119.8	1438.3	1790.4	2362.8	7456.7	16876.8	19407.5	19904.0	14314.9
75°	705.5	721.7	811.2	1097.4	1409.7	1450.8	4001.4	12652.6	15939.8	16885.5	11917.2
77.5°	574.8	586.0	632.1	815.0	1087.5	1027.7	2099.0	8235.6	9986.2	10938.0	7020.0
80°	456.6	469.1	496.4	552.4	815.0	732.9	1001.6	4173.2	4823.9	4813.9	2802.0
82.5°	354.6	358.3	390.7	405.6	557.4	520.1	542.5	1766.8	1957.2	2021.9	1011.6
85°	224.0	235.2	345.9	311.1	333.5	304.8	267.5	701.7	864.7	852.3	404.4
87.5°	68.4	72.2	117.0	131.9	148.1	133.1	98.3	206.5	252.6	273.7	100.8
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°	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4	2778.4
2.5°	2794.5	2780.9	2732.3	2692.5	2655.2	2614.1	2579.3	2569.3	2560.6	2556.9	2555.7
5°	2820.7	2779.6	2683.8	2605.4	2543.2	2486.0	2449.9	2433.7	2417.5	2417.5	2422.5
7.5°	2858.0	2783.3	2635.3	2518.3	2439.9	2386.4	2360.3	2357.8	2361.6	2365.3	2366.5
10°	2899.1	2780.9	2564.4	2418.8	2349.1	2324.2	2325.5	2346.6	2366.5	2381.5	2383.9
12.5°	2938.9	2765.9	2481.0	2325.5	2280.7	2285.7	2320.5	2367.8	2406.3	2427.5	2428.7
15°	2983.7	2742.3	2380.2	2237.1	2222.2	2260.8	2325.5	2397.6	2456.1	2491.0	2494.7
17.5°	3021.0	2702.5	2274.5	2151.3	2169.9	2240.9	2330.4	2423.8	2494.7	2538.2	2545.7
20°	3063.3	2651.5	2165.0	2069.2	2122.7	2218.5	2320.5	2421.3	2494.7	2537.0	2546.9
22.5°	3096.9	2579.3	2060.4	2002.0	2080.4	2191.1	2286.9	2367.8	2427.5	2449.9	2464.8
25°	3110.6	2488.5	1962.2	1947.2	2046.8	2146.3	2211.0	2257.0	2275.7	2273.2	2279.4
27.5°	3103.1	2383.9	1877.5	1903.7	2004.5	2076.6	2109.0	2105.2	2071.6	2040.5	2055.5
30°	3072.0	2259.5	1806.6	1858.9	1949.7	1989.5	1984.5	1936.0	1872.6	1814.1	1817.8
32.5°	3016.0	2125.1	1740.7	1807.9	1872.6	1890.0	1856.4	1792.9	1702.1	1626.2	1615.0
35°	2968.7	1997.0	1682.2	1749.4	1795.4	1786.7	1754.4	1672.2	1590.1	1522.9	1511.7
37.5°	2961.3	1887.5	1626.2	1683.4	1709.6	1697.1	1657.3	1587.6	1557.8	1506.8	1500.5
40°	3001.1	1810.4	1569.0	1613.8	1626.2	1616.3	1572.7	1532.9	1560.3	1547.8	1547.8
42.5°	3109.3	1769.3	1518.0	1544.1	1554.0	1561.5	1530.4	1496.8	1530.4	1473.2	1454.5
45°	3281.0	1770.5	1471.9	1475.7	1505.5	1531.6	1510.5	1460.7	1443.3	1328.8	1306.4
47.5°	3533.6	1812.8	1434.6	1411.0	1464.5	1508.0	1478.1	1406.0	1328.8	1252.9	1239.3
50°	3828.5	1888.7	1401.0	1343.8	1409.7	1478.1	1455.8	1371.1	1291.5	1245.5	1236.8
52.5°	4155.7	1984.5	1359.9	1269.1	1342.5	1464.5	1460.7	1366.2	1256.7	1225.6	1218.1
55°	4560.1	2079.1	1308.9	1182.0	1282.8	1453.3	1447.0	1325.1	1249.2	1226.8	1224.3
57.5°	5030.4	2216.0	1235.5	1093.7	1214.4	1407.2	1393.5	1300.2	1224.3	1208.1	1206.9
60°	5788.2	2428.7	1131.0	1012.8	1144.7	1326.4	1343.8	1257.9	1184.5	1180.8	1179.5
62.5°	6784.8	2727.4	1022.8	929.4	1063.8	1221.8	1271.6	1200.7	1142.2	1160.9	1163.4
65°	8160.9	2978.7	910.8	858.5	974.2	1121.1	1203.2	1147.2	1094.9	1131.0	1131.0
67.5°	9058.0	2983.7	808.8	785.1	883.4	1036.4	1131.0	1083.7	1034.0	1094.9	1097.4
70°	8871.4	2614.1	724.1	708.0	795.1	945.6	1051.4	1014.0	956.8	1011.6	991.7
71°	8570.3	2408.8	690.5	678.1	760.2	902.1	1014.0	982.9	925.7	961.8	950.6
72.5°	8090.0	2091.6	635.8	638.3	708.0	847.3	961.8	929.4	872.2	892.1	888.4
75°	6838.3	1826.5	543.7	554.9	608.4	754.0	857.3	832.4	773.9	773.9	770.2
77.5°	4275.2	1276.6	451.7	457.9	516.4	645.8	736.6	715.4	659.4	640.8	635.8
80°	1595.1	659.4	353.4	360.8	396.9	508.9	609.7	589.8	532.5	511.4	491.5
82.5°	603.5	331.0	260.0	253.8	292.4	388.2	477.8	454.1	409.4	358.3	343.4
85°	227.7	164.2	159.3	154.3	171.7	230.2	296.1	291.2	243.9	207.8	204.1
87.5°	59.7	53.5	62.2	46.0	48.5	43.5	44.8	18.7	8.7	3.7	2.5
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)