

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: P650987

Luminaire Tested: **GALN-SA6C-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35879.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

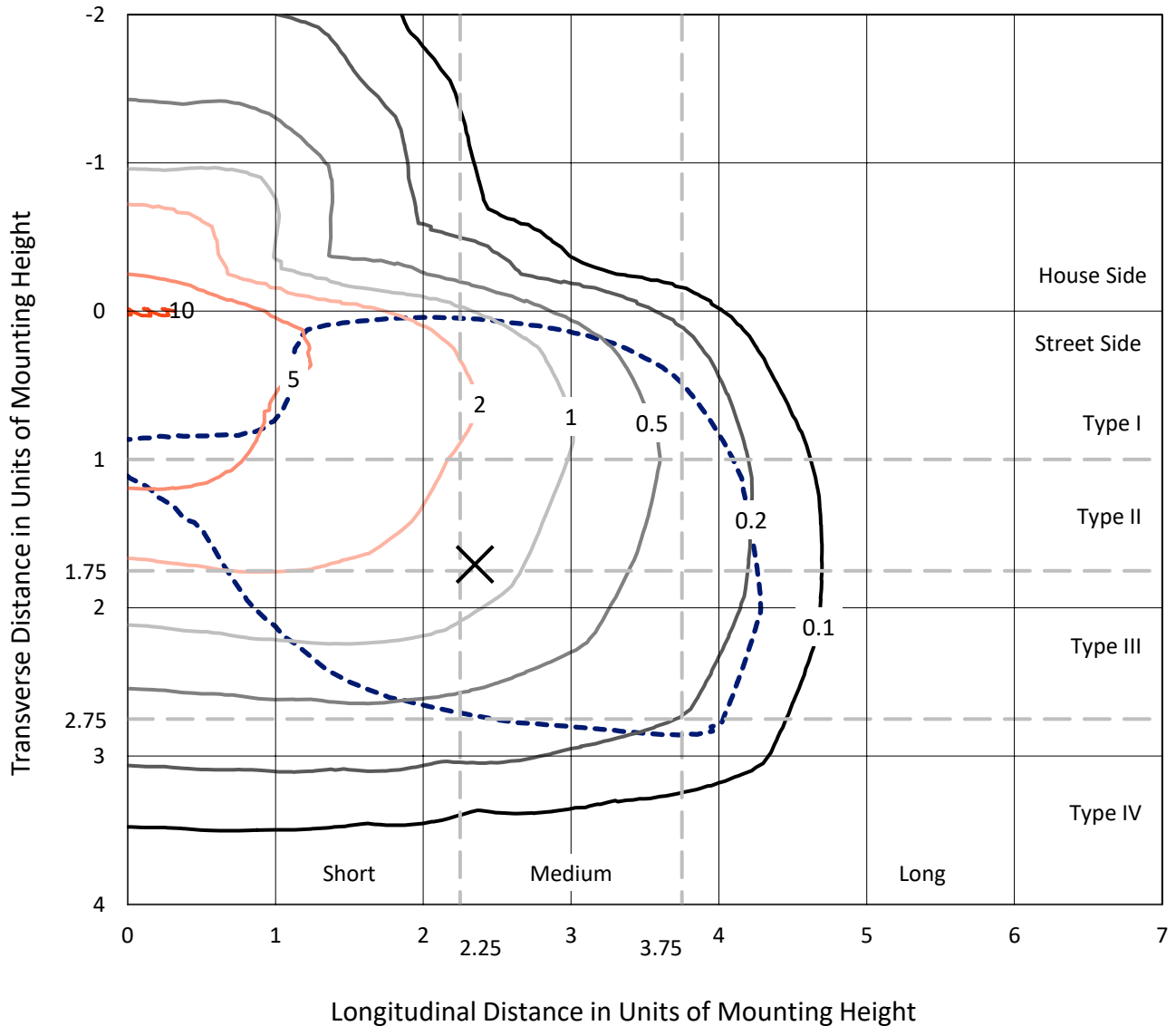
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA6C-840-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

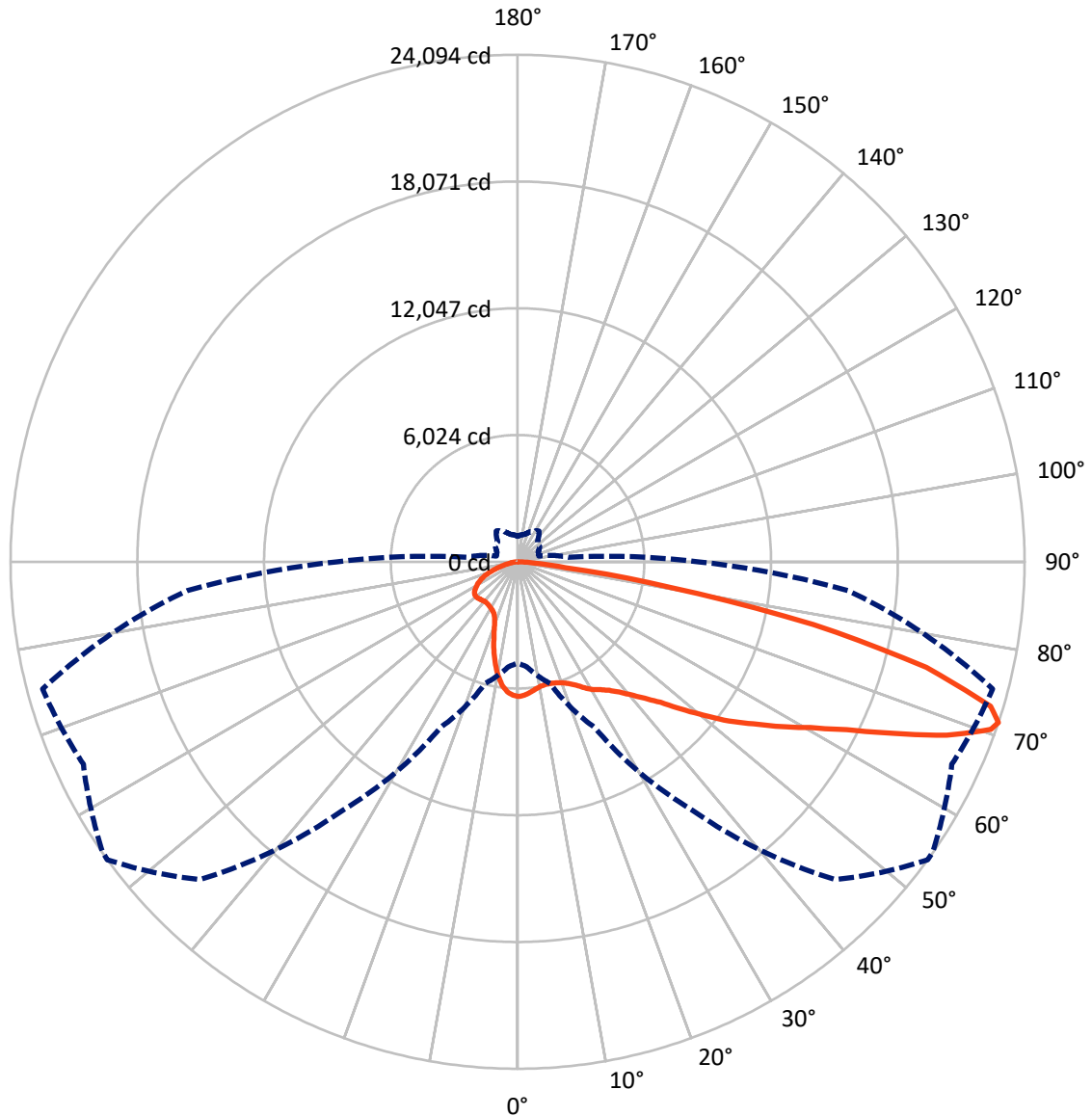
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P650987
CATALOG NUMBER: GALN-SA6C-840-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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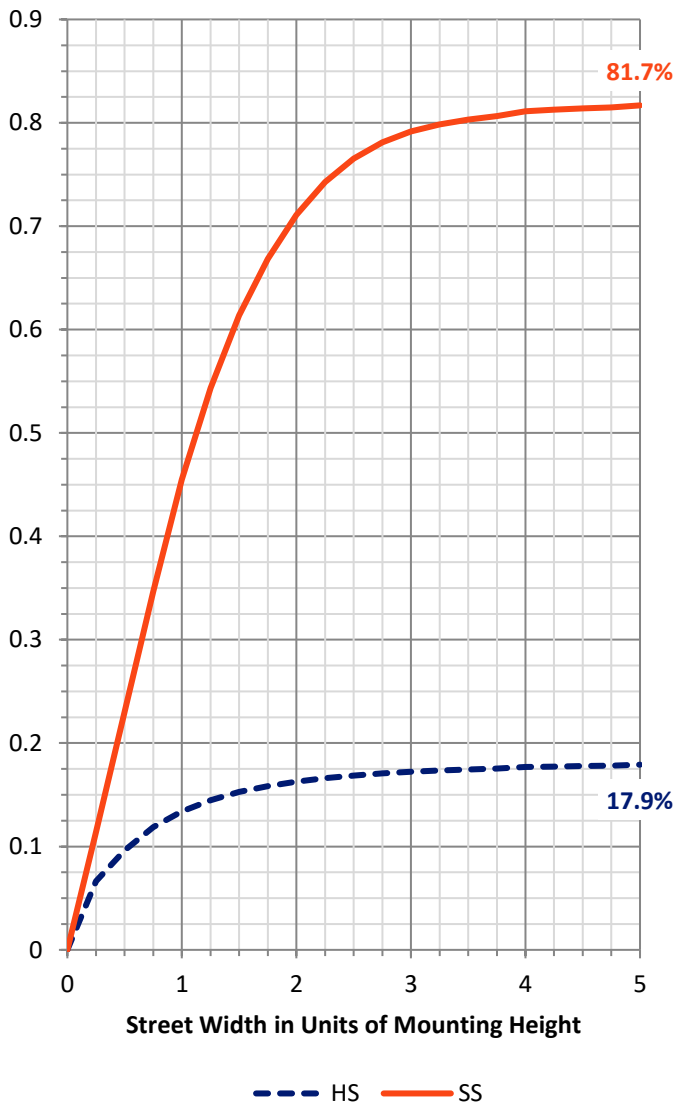
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6477.8	0.0	6477.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29401.7	0.0	29401.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	35879.6	0.0	35879.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.5	1.6
10°-20°	1506.3	4.2
20°-30°	2508.1	7.0
30°-40°	3708.6	10.3
40°-50°	5223.7	14.6
50°-60°	6994.8	19.5
60°-70°	8816.4	24.6
70°-80°	6021.6	16.8
80°-90°	529.6	1.5
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°	35879.6	100.0
0°-180°	35879.6	100.0

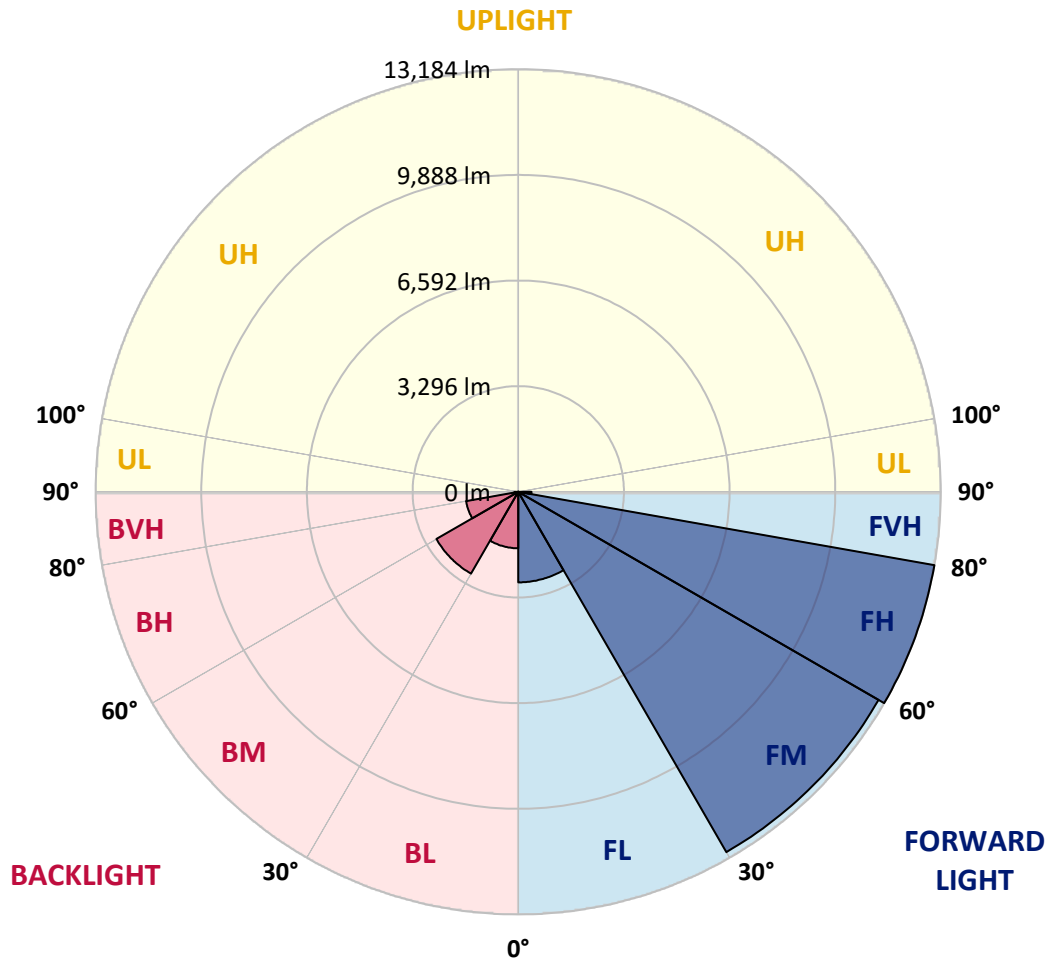


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2824.3	7.9			
FM (30°-60°)	12979.9	36.2			
FH (60°-80°)	13183.6	36.7			G5
FVH (80°-90°)	413.9	1.2			G3/500
BL (0°-30°)	1760.6	4.9	B3/2500		
BM (30°-60°)	2947.2	8.2	B3/5000		
BH (60°-80°)	1654.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	115.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4
2.5°	6184.4	6213.5	6221.2	6240.6	6281.3	6314.2	6347.2	6343.3	6389.8	6409.2	6426.7
5°	5909.2	5916.9	5946.0	5984.7	6056.5	6147.5	6236.7	6238.6	6353.0	6444.1	6488.7
7.5°	5707.6	5732.8	5752.2	5792.9	5868.5	5967.3	6108.8	6120.5	6323.9	6504.1	6599.2
10°	5575.8	5604.9	5626.2	5676.6	5752.2	5862.7	6015.8	6037.1	6302.6	6599.2	6765.8
12.5°	5455.7	5484.7	5504.1	5570.0	5668.8	5804.5	5977.0	6002.2	6310.4	6709.6	6948.0
15°	5529.3	5552.5	5544.8	5564.2	5630.1	5785.2	5992.5	6017.7	6339.5	6816.2	7128.2
17.5°	5856.9	5876.2	5812.2	5738.6	5707.6	5822.0	6041.0	6068.1	6397.6	6926.6	7312.3
20°	6339.5	6391.8	6252.2	6087.5	5938.2	5953.8	6141.7	6170.8	6479.0	7037.2	7500.4
22.5°	6967.3	7006.1	6835.6	6564.3	6289.1	6147.5	6293.0	6310.4	6601.1	7180.5	7705.7
25°	7705.7	7729.0	7492.6	7143.7	6746.4	6479.0	6500.3	6531.3	6802.6	7343.4	7888.0
27.5°	8422.9	8496.5	8223.2	7796.8	7273.6	6827.8	6785.2	6804.5	7021.6	7434.4	8013.9
30°	9273.7	9267.8	8979.1	8484.8	7814.3	7207.7	7054.6	7050.7	7139.8	7479.0	8105.1
32.5°	9952.0	10031.4	9748.5	9209.7	8432.5	7601.1	7240.7	7232.9	7230.9	7556.6	8240.7
35°	10723.3	10734.9	10475.2	9932.6	9101.2	8095.3	7500.4	7461.6	7417.0	7723.2	8424.8
37.5°	11413.3	11467.5	11229.2	10620.7	9758.2	8608.9	7857.0	7831.7	7696.1	8012.0	8719.4
40°	11952.1	11992.7	11849.4	11269.9	10405.5	9163.2	8310.4	8263.9	8099.2	8484.8	9112.8
42.5°	12128.5	12211.8	12268.0	11983.1	11149.7	9820.2	8868.6	8810.5	8684.5	9202.0	9566.3
45°	12142.0	12273.8	12570.3	12583.9	11897.8	10607.0	9519.8	9479.1	9469.4	10120.6	10203.9
47.5°	12039.3	12173.1	12671.1	12940.5	12564.5	11401.7	10459.8	10395.9	10401.7	11256.3	10919.1
50°	11791.2	11950.1	12554.8	13169.2	13085.9	12227.3	11452.1	11430.7	11550.9	12552.9	11661.4
52.5°	11324.1	11516.0	12434.7	13312.6	13473.5	12938.5	12580.0	12520.0	12824.2	13959.9	12473.5
55°	10031.4	10320.2	11994.8	13392.1	13841.7	13618.8	13595.6	13704.1	14107.2	15494.9	13366.9
57.5°	9357.0	9574.1	11039.2	13405.6	14306.8	14409.5	14781.7	14808.8	15514.3	17124.8	14376.6
60°	8988.8	9180.6	10515.9	13316.5	14956.1	15388.3	15994.9	16091.8	16888.4	18890.4	15423.2
62.5°	8667.1	8831.8	10202.0	13008.3	15688.7	16839.9	17566.6	17613.2	18448.5	20840.1	16456.2
65°	7909.3	8097.2	9570.2	12700.2	16320.5	18654.0	19652.1	19597.7	20109.4	22522.3	17103.5
67.5°	6887.9	7126.3	8389.9	11636.2	16632.5	20636.5	22001.0	21933.1	21749.0	23625.1	17289.5
70°	5583.6	5711.5	6880.1	9797.0	15386.3	21677.4	23855.7	23784.0	22764.6	23770.4	16409.7
71°	4804.5	5004.1	5990.6	8701.9	14349.5	21359.5	24094.1	24074.7	22766.5	23369.3	15746.8
72.5°	3750.2	3872.3	4744.4	6742.5	12196.3	19553.2	23504.9	23578.6	22272.3	22254.9	14380.5
75°	2372.2	2426.5	2976.9	3969.2	6692.2	13847.5	20064.8	20264.5	19776.1	18215.9	10694.2
77.5°	1378.0	1447.7	1783.0	2339.2	2891.6	7515.8	14357.2	14574.3	13740.9	10029.5	4378.1
80°	802.4	879.9	1174.5	1358.6	1327.6	2788.9	7310.4	7680.6	5949.9	2533.1	1228.7
82.5°	445.7	498.1	825.6	827.5	707.4	910.9	2300.5	2407.1	1697.7	1021.4	502.0
85°	323.6	366.3	532.9	482.6	339.2	391.5	800.5	839.1	686.1	430.3	162.8
87.5°	114.4	162.8	292.7	232.5	93.0	81.4	230.6	188.0	174.4	120.2	36.8
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°	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4	6401.4
2.5°	6436.3	6440.2	6420.9	6386.0	6351.1	6306.5	6256.1	6217.3	6199.9	6197.9	6196.0
5°	6506.1	6515.8	6442.1	6333.7	6213.5	6066.1	5940.2	5796.8	5759.9	5701.8	5719.2
7.5°	6618.5	6612.7	6467.4	6236.7	5955.7	5643.7	5380.0	5227.0	5068.0	5023.5	5025.4
10°	6779.4	6742.5	6467.4	6039.1	5570.0	5106.8	4738.6	4506.0	4380.0	4275.4	4236.6
12.5°	6949.9	6856.9	6405.3	5761.9	5073.8	4506.0	4110.6	3796.7	3715.3	3630.0	3631.9
15°	7112.8	6957.7	6283.2	5372.3	4539.0	3864.5	3480.8	3292.8	3267.6	3277.3	3275.4
17.5°	7260.0	7029.4	6097.2	4938.2	3914.9	3314.1	3110.6	3124.1	3192.0	3240.5	3246.3
20°	7409.2	7072.1	5820.1	4356.8	3325.7	2980.8	2988.5	3095.1	3197.8	3263.8	3273.4
22.5°	7550.8	7091.4	5494.4	3794.8	2899.3	2839.3	2953.6	3068.0	3168.7	3232.7	3242.4
25°	7643.8	7046.8	5033.1	3207.5	2690.0	2788.9	2909.0	3006.0	3091.3	3157.1	3172.6
27.5°	7668.9	6903.4	4461.4	2732.7	2593.1	2740.4	2850.9	2922.6	2988.5	3050.6	3062.2
30°	7655.4	6692.2	3833.5	2453.6	2537.0	2684.2	2769.5	2821.8	2901.3	2949.7	2959.4
32.5°	7634.1	6446.0	3178.5	2304.3	2490.5	2631.9	2682.3	2728.8	2726.9	2707.5	2721.1
35°	7641.8	6151.4	2647.4	2215.2	2449.7	2593.1	2635.8	2577.7	2411.0	2403.2	2395.4
37.5°	7682.5	5860.8	2261.7	2153.2	2428.4	2587.3	2610.5	2343.1	2195.9	2128.0	2110.6
40°	7787.2	5521.6	2007.8	2106.7	2426.5	2631.9	2496.3	2224.9	1942.0	1810.2	1800.5
42.5°	7926.7	5188.2	1852.8	2077.6	2449.7	2699.7	2449.7	2058.3	1750.0	1672.6	1660.9
45°	8134.1	4806.4	1767.5	2064.1	2484.6	2724.9	2434.2	1936.2	1672.6	1610.5	1610.5
47.5°	8368.6	4442.1	1721.0	2054.4	2529.2	2707.5	2296.6	1897.4	1635.7	1643.5	1680.3
50°	8601.2	4126.1	1686.1	2033.0	2567.9	2697.8	2240.4	1895.4	1645.4	1744.2	1810.2
52.5°	8870.5	3903.2	1643.5	1998.1	2567.9	2635.8	2222.9	1934.2	1672.6	1701.6	1730.7
55°	9196.2	3833.5	1589.2	1922.5	2521.4	2480.7	2213.3	1990.4	1691.9	1624.1	1635.7
57.5°	9626.4	3945.9	1536.9	1827.6	2414.8	2319.9	2209.4	2005.9	1647.4	1591.2	1579.6
60°	10126.4	4168.8	1521.4	1730.7	2269.5	2182.2	2186.2	1961.3	1585.4	1527.2	1536.9
62.5°	10477.2	4302.6	1511.7	1657.0	2110.6	2031.1	2129.9	1907.1	1558.2	1507.8	1517.5
65°	10477.2	4139.7	1422.6	1544.7	1905.1	1848.9	2062.1	1839.3	1523.3	1465.2	1455.5
67.5°	10079.9	3664.9	1286.9	1376.0	1678.4	1641.5	1967.2	1757.9	1471.0	1426.4	1403.1
70°	9045.0	2779.2	1116.3	1178.3	1391.5	1424.5	1845.1	1647.4	1383.8	1329.5	1294.6
71°	8589.6	2420.7	1044.6	1077.6	1281.1	1329.5	1786.9	1600.8	1345.0	1267.5	1205.5
72.5°	7711.5	2038.8	936.1	949.7	1095.0	1182.2	1664.8	1511.7	1271.3	1160.9	1091.1
75°	5858.8	1488.4	753.9	746.1	810.1	938.1	1409.0	1346.9	1114.4	965.1	924.4
77.5°	2531.2	810.1	564.0	569.8	550.4	711.2	1108.6	1157.0	955.5	784.9	748.1
80°	767.5	467.1	385.7	393.4	368.3	476.8	781.0	907.0	767.5	610.5	560.1
82.5°	393.4	279.0	263.6	259.7	234.5	269.4	472.9	620.2	548.5	381.8	337.2
85°	170.6	149.2	129.9	126.0	110.5	96.9	168.6	310.1	290.7	213.2	203.5
87.5°	42.6	38.8	25.2	23.3	13.5	1.9	0.0	0.0	0.0	0.0	0.0
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)