

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: P651458

Luminaire Tested: **GALN-SA6D-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37763.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

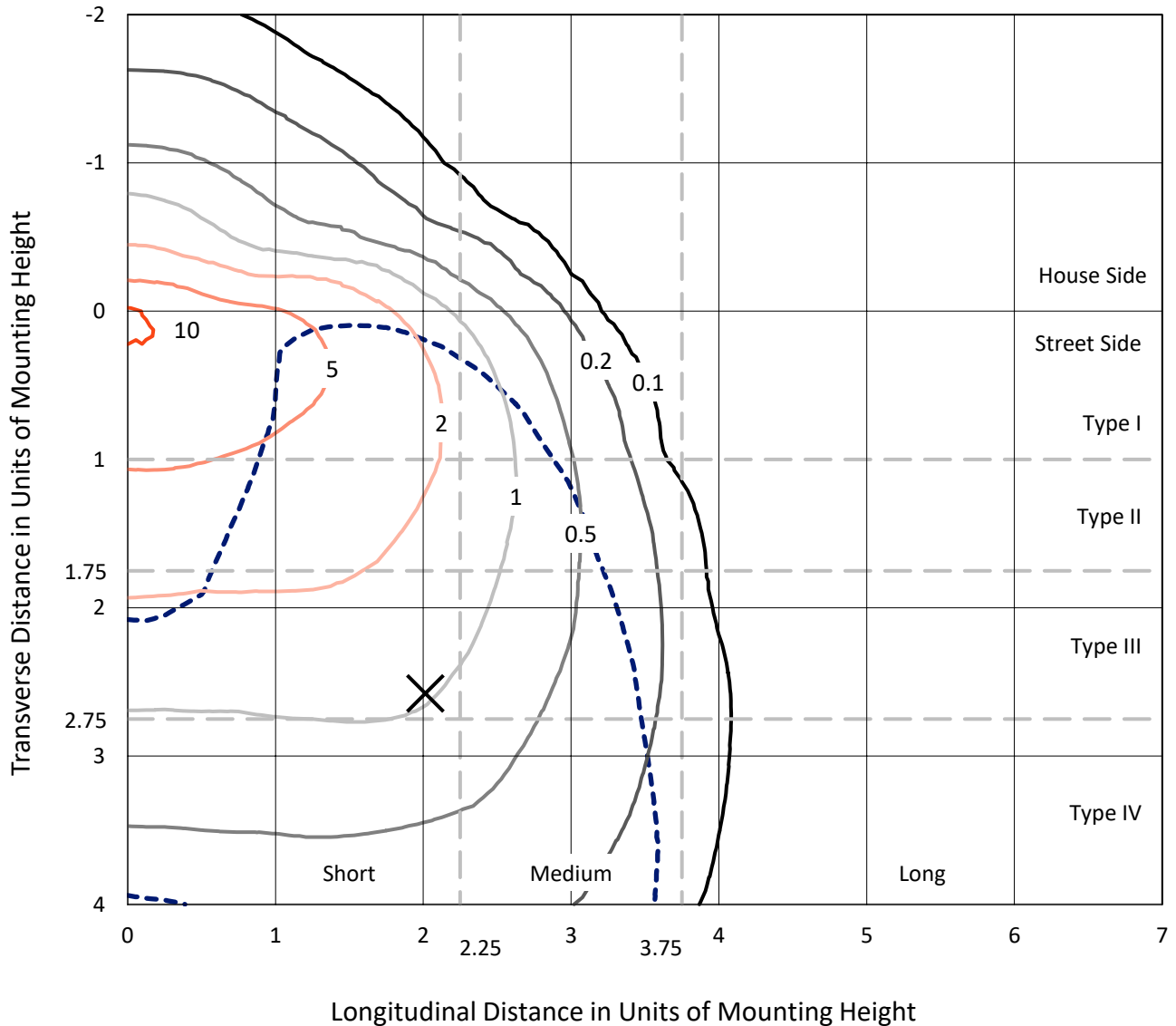
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

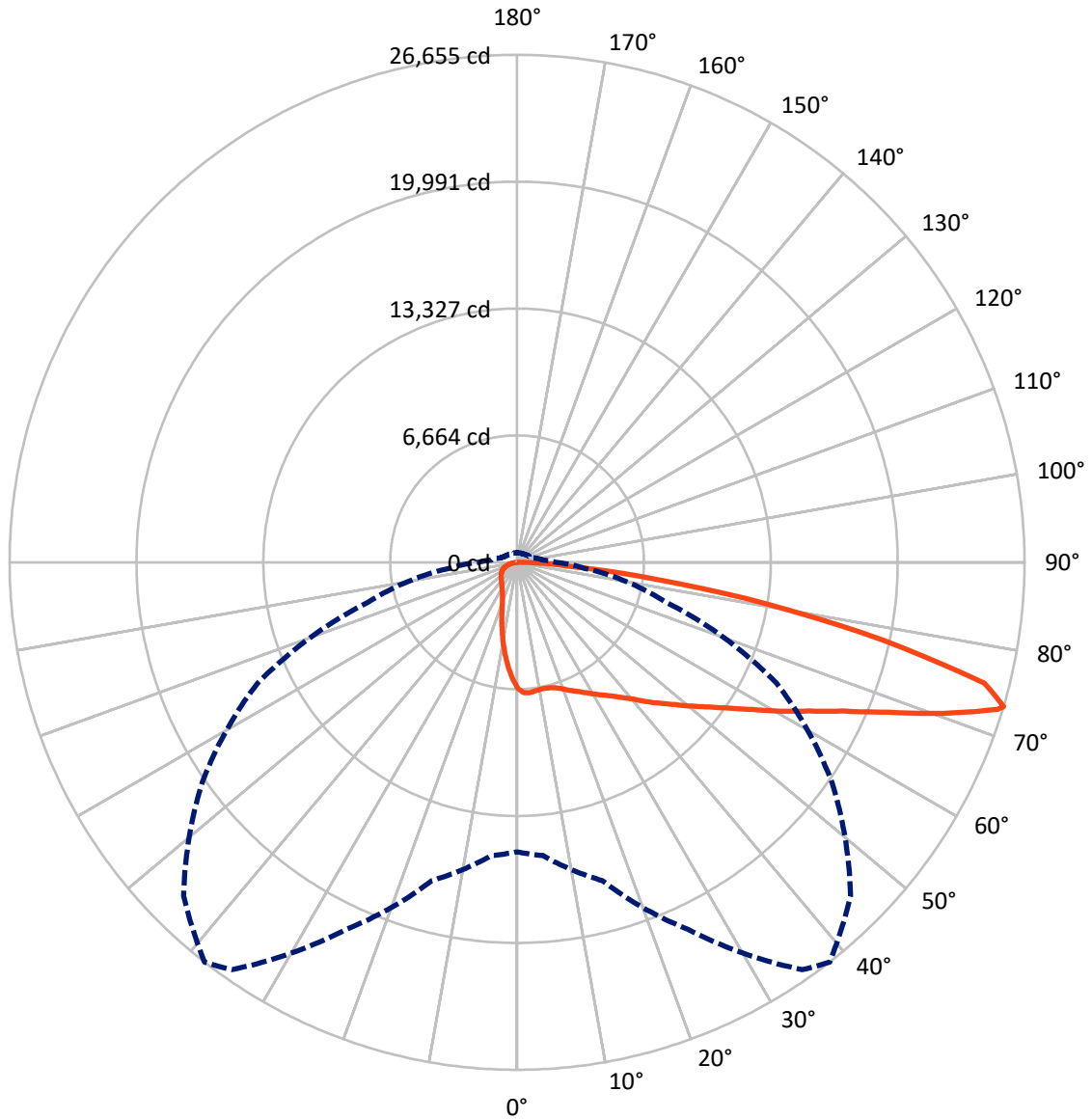
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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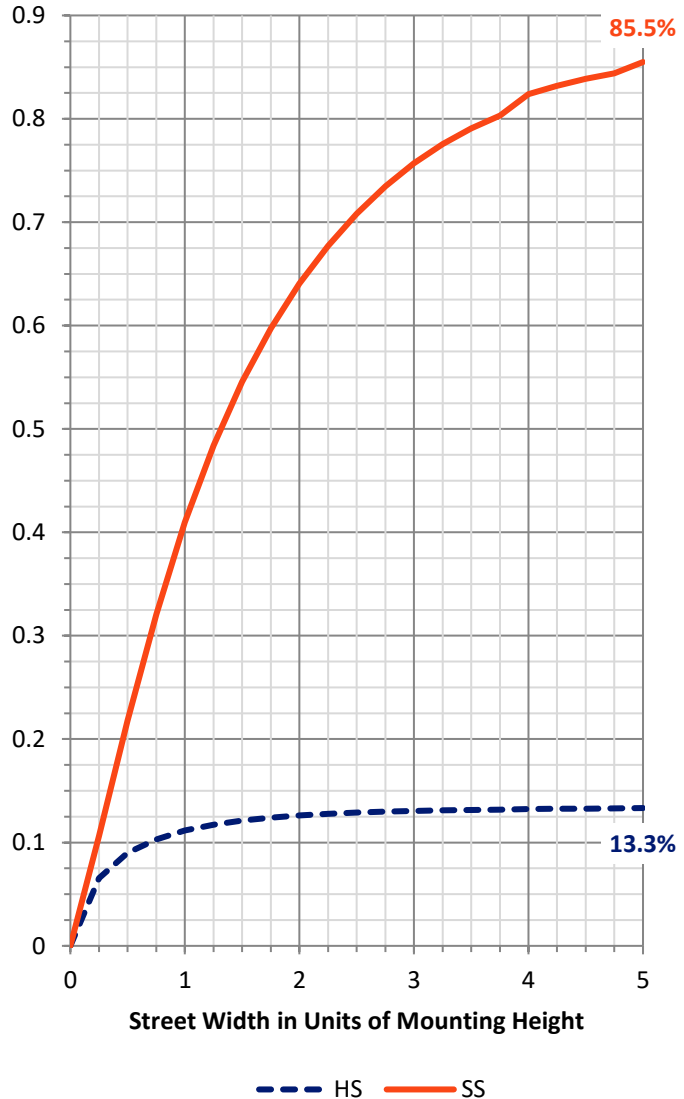
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5076.5	0.0	5076.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32686.9	0.0	32686.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	37763.4	0.0	37763.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.1	1.5
10°-20°	1485.0	3.9
20°-30°	2312.5	6.1
30°-40°	3391.9	9.0
40°-50°	5031.4	13.3
50°-60°	7128.6	18.9
60°-70°	9042.8	23.9
70°-80°	7527.4	19.9
80°-90°	1264.7	3.3
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°	37763.4	100.0
0°-180°	37763.4	100.0

Coefficient of Utilization

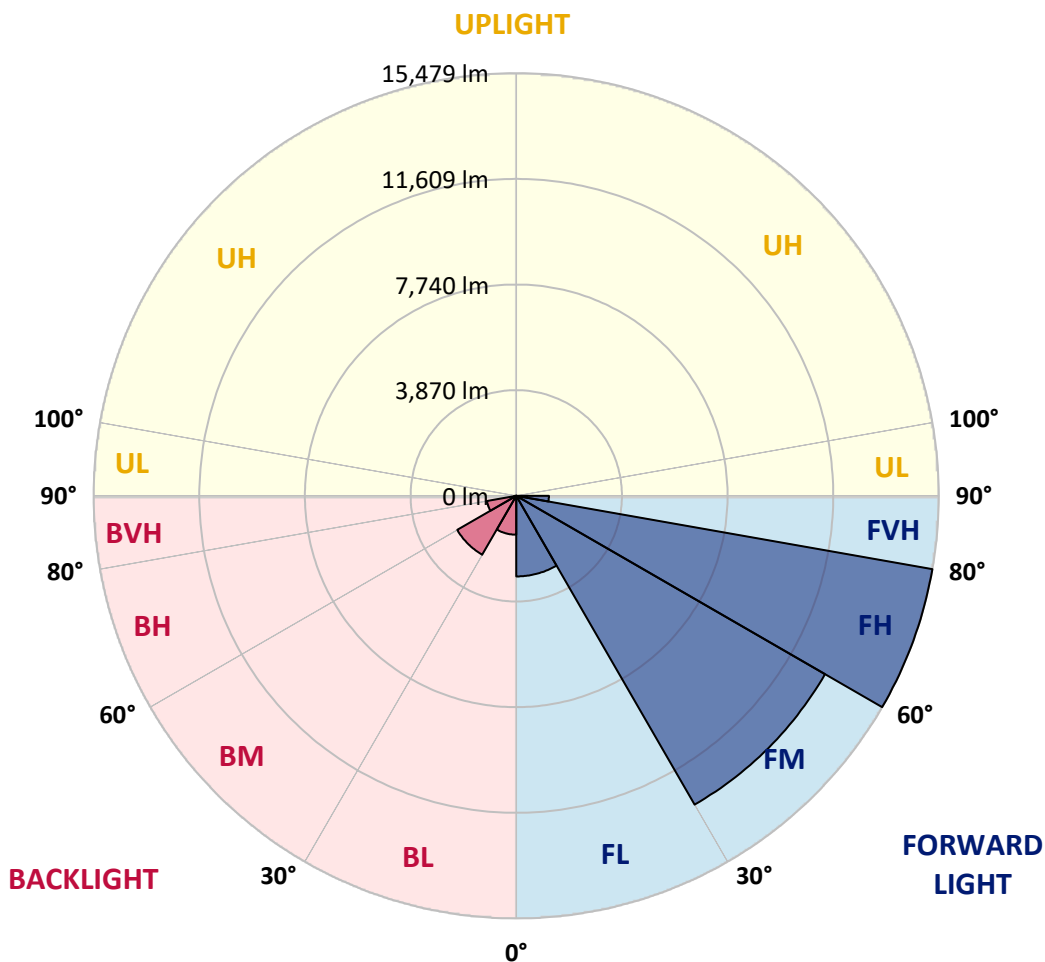


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2952.1	7.8			
FM (30°-60°)	13059.6	34.6			
FH (60°-80°)	15479.1	41.0			G5
FVH (80°-90°)	1196.1	3.2			G5
BL (0°-30°)	1424.5	3.8	B3/2500		
BM (30°-60°)	2492.3	6.6	B2/2500		
BH (60°-80°)	1091.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	68.6	0.2			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4
2.5°	6901.0	6935.1	6918.0	6894.6	6879.6	6864.7	6843.4	6781.6	6732.5	6679.1	6596.0
5°	6952.1	6973.5	6958.5	6928.7	6894.6	6879.6	6839.1	6758.1	6679.1	6589.6	6465.9
7.5°	6922.3	6930.8	6913.8	6877.5	6847.7	6819.9	6773.0	6683.4	6587.5	6478.7	6316.7
10°	6815.6	6847.7	6847.7	6817.8	6788.0	6773.0	6726.1	6640.8	6553.3	6429.7	6237.7
12.5°	6728.3	6762.3	6790.1	6781.6	6779.4	6779.4	6743.1	6679.1	6576.8	6459.6	6231.3
15°	6668.5	6709.0	6768.7	6802.8	6824.2	6830.6	6815.6	6760.2	6655.8	6519.3	6257.0
17.5°	6655.8	6704.8	6813.5	6888.1	6943.6	6941.4	6937.2	6860.5	6745.3	6604.5	6288.9
20°	6713.3	6777.3	6928.7	7046.0	7127.1	7112.1	7088.6	6988.4	6854.1	6696.2	6318.8
22.5°	6886.0	6952.1	7118.5	7246.5	7325.4	7325.4	7255.0	7122.8	6979.9	6802.8	6359.3
25°	7133.4	7205.9	7382.9	7513.0	7549.2	7521.6	7451.2	7291.2	7127.1	6956.4	6444.6
27.5°	7436.2	7523.7	7687.9	7796.7	7786.0	7764.6	7692.1	7487.4	7323.2	7167.5	6589.6
30°	7813.7	7877.6	8048.3	8073.9	8035.5	8031.2	7928.9	7724.2	7570.6	7451.2	6796.5
32.5°	8169.8	8227.4	8363.9	8374.6	8306.3	8314.9	8218.9	8031.2	7943.7	7901.1	7144.0
35°	8547.3	8577.2	8694.4	8681.6	8636.9	8630.5	8592.1	8412.9	8440.7	8517.5	7636.7
37.5°	8862.9	8922.6	8988.8	8999.4	8997.3	9018.6	9044.2	8958.9	9118.8	9359.8	8282.8
40°	9152.9	9204.2	9302.2	9336.4	9419.5	9462.2	9549.6	9551.7	9920.7	10317.3	9078.3
42.5°	9349.1	9436.6	9619.9	9681.8	9884.4	10012.4	10142.5	10281.1	10816.4	11326.0	10016.6
45°	9519.8	9634.9	9939.9	10131.8	10406.9	10562.5	10837.6	11127.7	11897.5	12565.0	10969.9
47.5°	9777.8	9880.2	10229.9	10568.9	10984.8	11163.9	11575.5	12008.5	13015.0	13746.5	11882.7
50°	10136.1	10197.9	10554.0	11106.3	11637.3	11867.7	12411.5	13036.3	14209.3	14912.9	12684.5
52.5°	10594.6	10620.1	10903.8	11639.5	12339.0	12624.8	13345.6	14074.9	15254.2	15925.9	13319.9
55°	11136.2	11093.5	11315.4	12204.7	13140.8	13514.0	14288.2	15126.2	16429.3	16744.9	13782.7
57.5°	11671.5	11605.4	11782.4	12891.4	14130.3	14580.3	15482.4	16209.6	17478.4	17510.5	14106.8
60°	12238.7	12189.7	12400.8	13697.5	15343.8	15876.9	16710.8	17333.4	18493.6	18043.6	14158.1
62.5°	12821.0	12742.1	13042.7	14603.8	16710.8	17194.8	18003.0	18527.7	19489.5	18241.9	13665.4
65°	13386.1	13349.9	13814.7	15680.7	18267.5	18817.7	19602.4	19958.6	20287.0	17943.3	12443.5
67.5°	13987.4	14060.0	14802.1	17118.1	20297.7	20988.7	21835.3	21500.5	20515.2	16529.4	10479.4
70°	14904.5	14951.4	16098.7	19001.1	22914.4	23748.2	24157.6	22048.5	19414.8	13844.5	7877.6
72.5°	15299.0	15505.9	17256.6	20978.0	25887.2	26396.8	24938.2	20826.6	16173.4	9404.6	4139.3
73°	15211.6	15458.9	17310.0	21278.6	26119.6	26654.9	24771.8	20197.5	15034.6	8099.5	3548.6
75°	14121.8	14426.8	16616.9	21027.0	25667.5	25347.6	22097.6	17214.0	10159.5	3682.9	1616.5
77.5°	11142.7	11230.0	13166.4	16979.5	20212.4	19619.5	16538.0	10758.7	4150.0	1369.1	917.0
80°	5589.5	5911.5	7421.3	9726.6	13516.1	13322.1	10438.9	5088.3	1729.5	804.0	607.8
82.5°	2689.2	2917.3	3614.7	4742.8	7468.2	7291.2	5169.3	2780.9	1098.3	469.2	358.3
85°	1731.6	1902.3	2301.1	2262.6	3070.9	2932.2	2322.3	2104.9	650.4	245.2	249.5
87.5°	1143.1	1251.8	1501.4	1200.6	1117.4	1010.8	1025.8	1185.7	127.9	93.9	34.1
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°	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4	6634.4
2.5°	6561.9	6534.1	6442.5	6352.9	6267.6	6186.6	6133.2	6062.9	6015.9	6028.7	6048.0
5°	6397.7	6335.8	6173.8	6015.9	5866.6	5689.7	5546.8	5431.6	5344.2	5312.2	5305.8
7.5°	6224.9	6120.5	5888.0	5617.1	5363.4	5143.7	4890.0	4764.1	4617.0	4565.8	4548.7
10°	6120.5	5979.7	5653.5	5275.9	4894.2	4529.5	4254.5	4030.6	3828.0	3789.5	3770.4
12.5°	6090.6	5905.1	5465.7	4979.6	4472.0	4024.1	3616.8	3322.5	3126.3	3081.5	3015.4
15°	6073.5	5843.2	5290.9	4681.0	4037.0	3491.0	3062.3	2719.0	2539.9	2420.5	2422.6
17.5°	6058.6	5772.9	5094.7	4354.7	3661.6	3032.5	2559.1	2249.8	2085.7	2021.7	2015.3
20°	6037.3	5689.7	4868.6	4011.3	3233.0	2614.5	2185.8	1955.6	1844.6	1791.3	1789.2
22.5°	6028.7	5608.6	4646.9	3661.6	2853.3	2292.5	1938.5	1776.4	1706.1	1669.8	1669.8
25°	6050.1	5551.0	4414.4	3328.9	2516.4	2017.4	1767.9	1657.0	1616.5	1597.3	1590.9
27.5°	6116.2	5525.5	4184.1	2996.2	2207.2	1829.8	1652.7	1575.9	1546.1	1531.2	1533.3
30°	6242.0	5523.4	3958.0	2667.8	1976.9	1686.9	1561.1	1507.7	1484.3	1475.7	1473.6
32.5°	6444.6	5570.3	3736.2	2397.0	1782.8	1567.5	1475.7	1437.4	1426.7	1420.3	1418.2
35°	6788.0	5702.5	3516.6	2149.6	1633.6	1460.8	1394.7	1375.5	1360.6	1367.0	1369.1
37.5°	7250.7	5930.6	3307.6	1955.6	1520.5	1381.9	1326.4	1309.4	1300.9	1307.3	1313.6
40°	7871.3	6259.1	3132.7	1799.9	1439.5	1315.8	1266.7	1251.8	1243.3	1253.9	1256.1
42.5°	8555.8	6638.7	2987.7	1678.3	1373.4	1260.3	1213.4	1196.4	1189.9	1196.4	1198.5
45°	9259.6	7080.1	2913.1	1590.9	1317.9	1219.8	1170.8	1151.6	1136.7	1132.4	1138.8
47.5°	9952.6	7464.0	2911.0	1537.6	1273.1	1183.5	1130.2	1108.9	1089.8	1079.1	1077.0
50°	10517.8	7768.9	2962.1	1514.1	1234.8	1143.1	1089.8	1068.4	1042.8	1021.5	1025.8
52.5°	10944.3	7967.2	2985.5	1503.5	1213.4	1100.4	1047.0	1027.9	998.0	970.3	970.3
55°	11219.4	8014.1	2928.0	1492.8	1196.4	1055.6	998.0	980.9	951.1	923.4	923.4
57.5°	11313.2	7869.2	2721.1	1467.2	1179.3	1017.2	949.0	934.1	910.6	882.9	878.6
60°	11095.7	7378.7	2358.6	1390.4	1145.2	976.7	895.7	889.3	880.8	857.3	855.1
62.5°	10257.6	6337.9	1964.1	1290.2	1087.6	934.1	846.6	857.3	863.7	850.9	848.7
65°	8862.9	5145.8	1678.3	1151.6	1010.8	874.4	793.3	821.1	838.1	838.1	833.9
67.5°	7188.9	3951.6	1413.9	1032.2	914.8	793.3	733.6	755.0	767.7	763.5	774.1
70°	5109.6	2676.4	1151.6	895.7	793.3	701.6	656.8	656.8	648.3	644.0	644.0
72.5°	2478.0	1529.0	934.1	748.5	676.0	599.2	563.0	548.1	531.0	528.9	518.2
73°	2070.7	1371.3	891.4	720.8	648.3	584.3	543.8	520.3	509.6	501.2	499.0
75°	1260.3	1040.7	744.3	607.8	552.4	503.3	467.0	445.7	435.0	428.7	426.5
77.5°	829.6	776.2	577.9	464.9	422.3	392.4	377.4	356.2	349.8	341.2	341.2
80°	618.5	592.8	413.7	328.4	302.8	277.2	273.0	268.7	251.6	240.9	236.7
82.5°	398.8	422.3	281.5	219.7	191.9	170.6	172.7	179.1	162.1	147.2	142.9
85°	283.7	304.9	170.6	100.2	81.1	70.4	78.9	70.4	72.5	57.6	46.9
87.5°	46.9	81.1	29.9	12.8	6.4	4.3	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)