

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: P651427

Luminaire Tested: **GALN-SA5D-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651427
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-SA5D-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33341.4 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

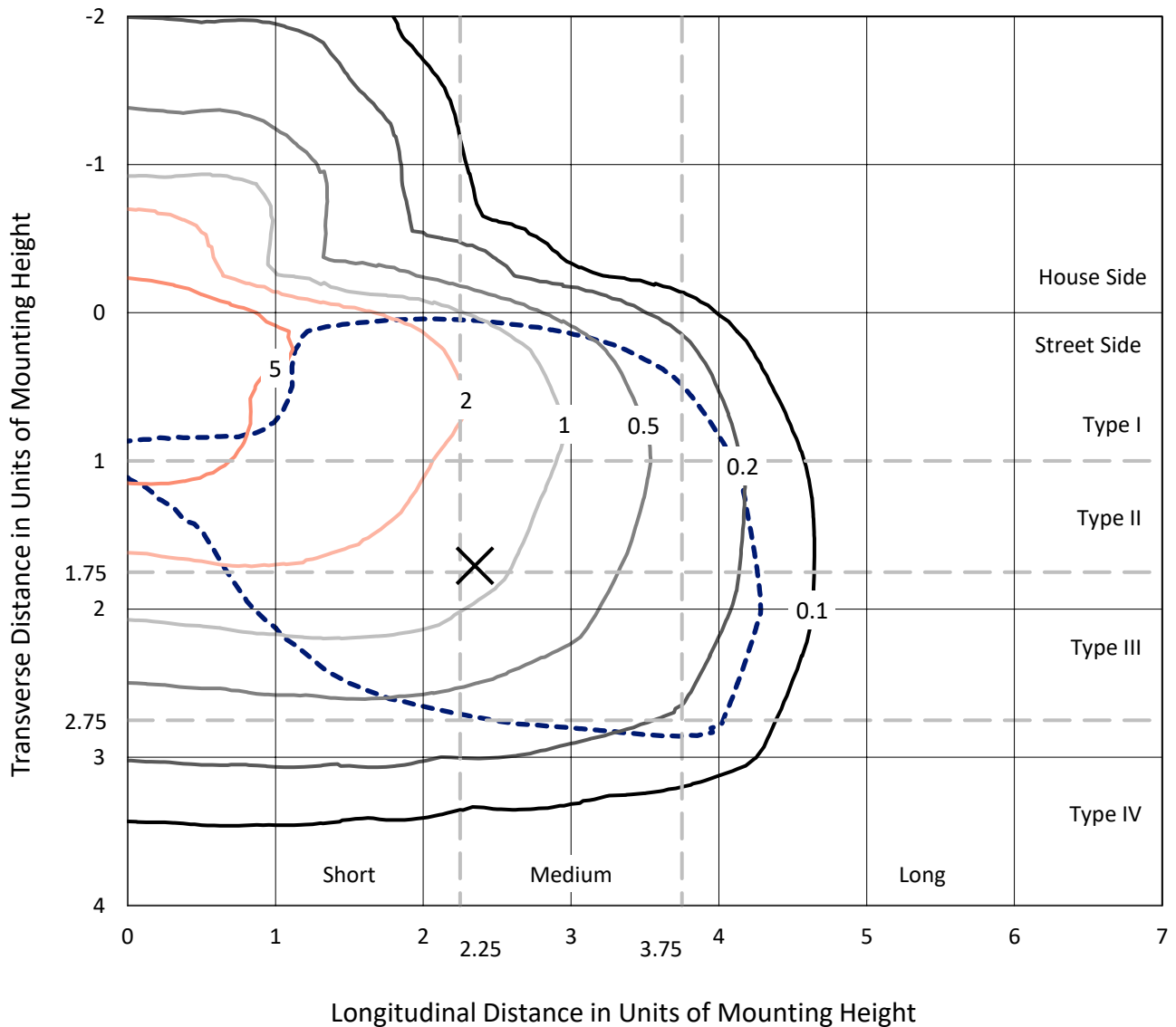
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651427
 CATALOG NUMBER: GALN-SA5D-840-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

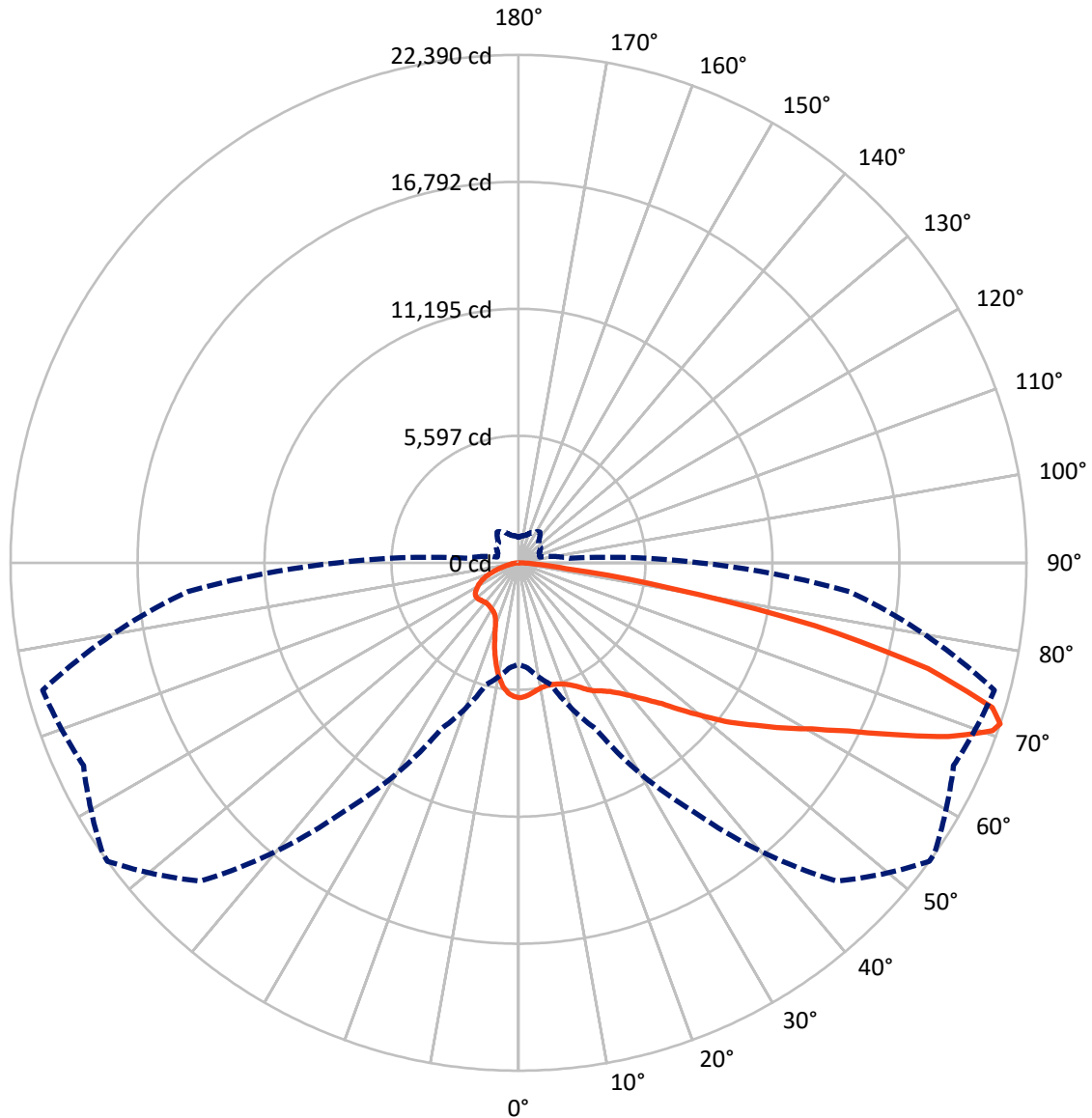
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SA5D-840-U-T3R

Luminous Intensity Polar Plot



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

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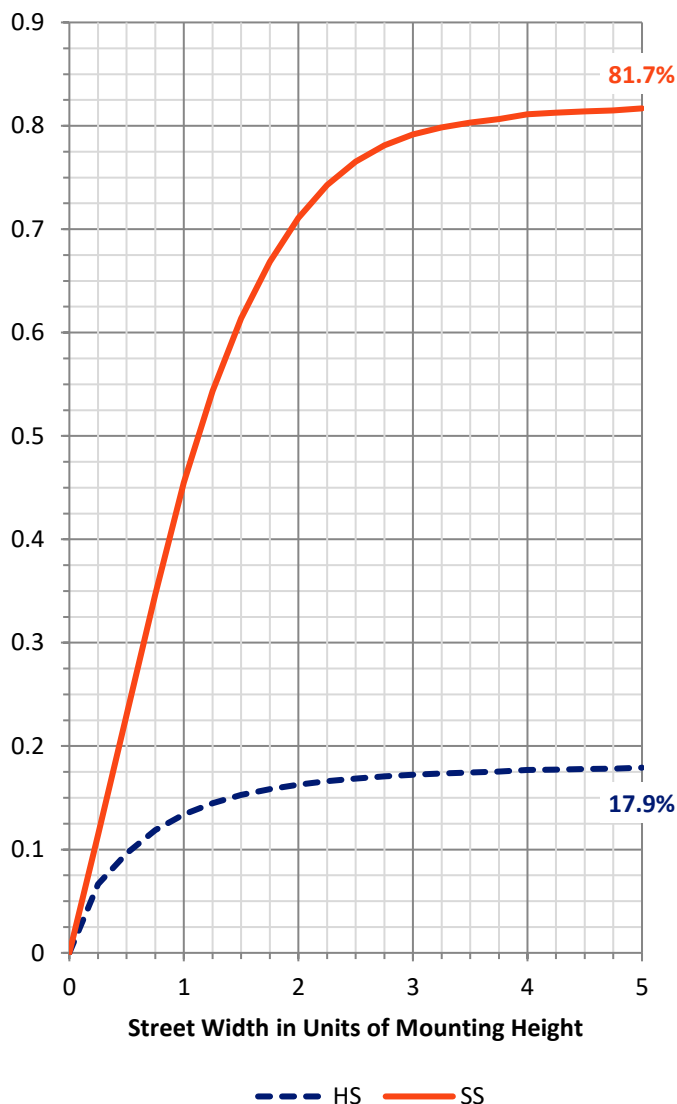
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6019.6	0.0	6019.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27321.9	0.0	27321.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	33341.4	0.0	33341.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	1.6
10°-20°	1399.8	4.2
20°-30°	2330.7	7.0
30°-40°	3446.3	10.3
40°-50°	4854.2	14.6
50°-60°	6500.0	19.5
60°-70°	8192.7	24.6
70°-80°	5595.6	16.8
80°-90°	492.1	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°	33341.4	100.0
0°-180°	33341.4	100.0

Coefficient of Utilization

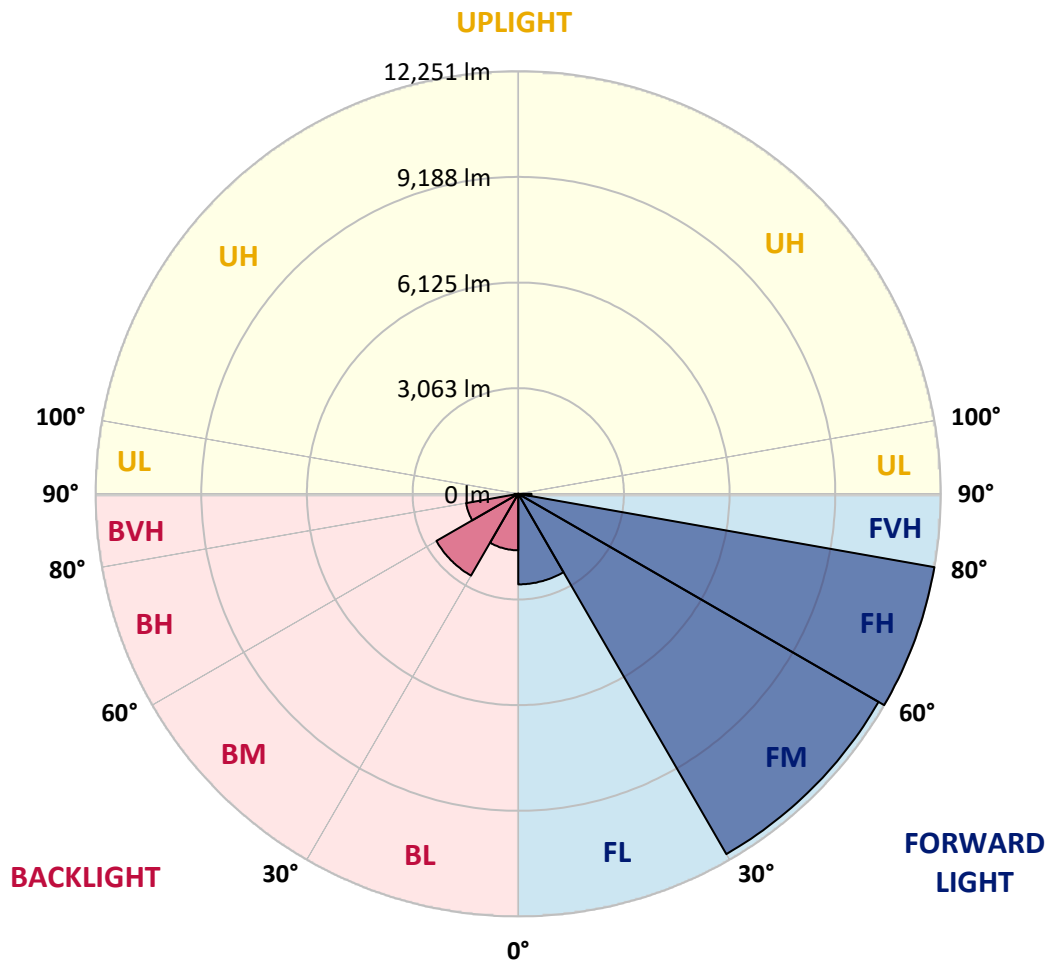


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.5	7.9			
FM (30°-60°)	12061.7	36.2			
FH (60°-80°)	12251.0	36.7			G5
FVH (80°-90°)	384.7	1.2			G3/500
BL (0°-30°)	1636.0	4.9	B3/2500		
BM (30°-60°)	2738.7	8.2	B3/5000		
BH (60°-80°)	1537.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	107.4	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°	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6
2.5°	5746.9	5773.9	5781.1	5799.1	5837.0	5867.6	5898.2	5894.6	5937.8	5955.8	5972.0
5°	5491.1	5498.4	5525.4	5561.4	5628.1	5712.7	5795.5	5797.3	5903.6	5988.3	6029.6
7.5°	5303.9	5327.2	5345.3	5383.1	5453.4	5545.2	5676.7	5687.4	5876.6	6044.1	6132.3
10°	5181.4	5208.4	5228.2	5275.0	5345.3	5447.9	5590.2	5610.1	5856.7	6132.3	6287.2
12.5°	5069.7	5096.7	5114.8	5176.0	5267.9	5393.9	5554.2	5577.6	5864.0	6234.9	6456.4
15°	5138.2	5159.8	5152.6	5170.6	5231.9	5375.9	5568.6	5592.0	5891.0	6334.0	6624.0
17.5°	5442.5	5460.5	5401.2	5332.7	5303.9	5410.2	5613.6	5638.8	5945.0	6436.7	6795.0
20°	5891.0	5939.6	5810.0	5656.8	5518.1	5532.6	5707.3	5734.3	6020.6	6539.4	6969.8
22.5°	6474.5	6510.5	6352.0	6099.9	5844.2	5712.7	5847.7	5864.0	6134.1	6672.6	7160.7
25°	7160.7	7182.3	6962.6	6638.3	6269.2	6020.6	6040.5	6069.2	6321.4	6823.9	7330.0
27.5°	7827.0	7895.5	7641.5	7245.3	6759.0	6344.8	6305.2	6323.2	6524.9	6908.6	7447.1
30°	8617.6	8612.3	8343.9	7884.6	7261.5	6697.8	6555.5	6551.9	6634.8	6949.9	7531.7
32.5°	9248.0	9321.8	9058.9	8558.2	7836.0	7063.4	6728.4	6721.2	6719.4	7022.0	7657.7
35°	9964.8	9975.6	9734.2	9230.0	8457.3	7522.7	6969.8	6933.7	6892.3	7176.8	7828.8
37.5°	10605.9	10656.3	10434.8	9869.3	9067.9	7999.9	7301.1	7277.8	7151.7	7445.2	8102.5
40°	11106.6	11144.4	11011.1	10472.6	9669.4	8515.0	7722.6	7679.3	7526.3	7884.6	8468.2
42.5°	11270.5	11347.9	11400.2	11135.4	10361.0	9125.5	8241.2	8187.2	8070.2	8551.0	8889.6
45°	11283.1	11405.6	11681.1	11693.7	11056.1	9856.7	8846.4	8808.5	8799.6	9404.7	9482.1
47.5°	11187.7	11311.9	11774.8	12025.1	11675.7	10595.1	9719.9	9660.4	9665.8	10460.0	10146.7
50°	10957.1	11104.8	11666.7	12237.6	12160.2	11362.3	10641.9	10622.2	10733.8	11664.9	10836.5
52.5°	10523.1	10701.4	11555.0	12370.9	12520.4	12023.3	11690.1	11634.3	11917.1	12972.4	11591.1
55°	9321.8	9590.2	11146.2	12444.7	12862.5	12655.5	12633.8	12734.7	13109.3	14398.8	12421.3
57.5°	8695.1	8896.8	10258.3	12457.3	13294.8	13390.2	13736.0	13761.2	14416.8	15913.4	13359.6
60°	8352.9	8531.2	9772.1	12374.5	13898.1	14299.7	14863.4	14953.5	15693.6	17554.0	14332.2
62.5°	8053.9	8207.1	9480.3	12088.1	14578.8	15648.7	16324.0	16367.2	17143.4	19365.9	15292.1
65°	7349.8	7524.4	8893.2	11801.8	15166.0	17334.4	18261.8	18211.4	18686.9	20929.1	15893.6
67.5°	6400.7	6622.2	7796.4	10813.0	15455.9	19176.7	20444.6	20381.6	20210.5	21953.8	16066.5
70°	5188.6	5307.5	6393.5	9103.9	14297.9	20143.9	22168.2	22101.5	21154.2	22088.9	15248.8
71°	4464.6	4650.1	5566.8	8086.4	13334.4	19848.5	22389.7	22371.7	21156.0	21716.1	14632.9
72.5°	3484.9	3598.3	4408.8	6265.6	11333.5	18170.0	21842.2	21910.6	20696.8	20680.5	13363.2
75°	2204.4	2254.8	2766.3	3688.4	6218.8	12868.0	18645.5	18830.9	18377.1	16927.3	9937.8
77.5°	1280.5	1345.3	1656.9	2173.7	2687.1	6984.2	13341.6	13543.3	12768.9	9320.0	4068.4
80°	745.6	817.6	1091.4	1262.5	1233.7	2591.6	6793.3	7137.2	5529.0	2353.9	1141.8
82.5°	414.2	462.9	767.2	769.0	657.3	846.5	2137.7	2236.8	1577.6	949.2	466.4
85°	300.7	340.4	495.3	448.4	315.2	363.8	743.8	779.9	637.6	399.8	151.3
87.5°	106.2	151.3	272.0	216.1	86.5	75.6	214.3	174.7	162.1	111.7	34.2
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°	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6	5948.6
2.5°	5981.0	5984.6	5966.6	5934.2	5901.8	5860.3	5813.5	5777.5	5761.3	5759.5	5757.7
5°	6045.9	6054.9	5986.4	5885.6	5773.9	5637.1	5520.0	5386.7	5352.5	5298.5	5314.7
7.5°	6150.3	6144.9	6009.9	5795.5	5534.4	5244.4	4999.5	4857.2	4709.5	4668.1	4669.9
10°	6299.8	6265.6	6009.9	5611.8	5176.0	4745.6	4403.4	4187.3	4070.2	3973.0	3936.9
12.5°	6458.3	6371.8	5952.2	5354.3	4715.0	4187.3	3819.8	3528.1	3452.5	3373.3	3375.0
15°	6609.6	6465.5	5838.7	4992.3	4217.9	3591.2	3234.6	3059.8	3036.4	3045.4	3043.7
17.5°	6746.4	6532.1	5665.8	4588.8	3638.0	3079.7	2890.5	2903.1	2966.2	3011.2	3016.7
20°	6885.1	6571.7	5408.3	4048.6	3090.5	2769.9	2777.1	2876.1	2971.6	3032.8	3041.8
22.5°	7016.5	6589.7	5105.7	3526.3	2694.2	2638.4	2744.7	2850.9	2944.6	3004.1	3013.1
25°	7103.0	6548.4	4677.1	2980.6	2499.8	2591.6	2703.2	2793.3	2872.5	2933.7	2948.2
27.5°	7126.5	6415.1	4145.8	2539.4	2409.7	2546.5	2649.2	2715.8	2777.1	2834.8	2845.5
30°	7113.9	6218.8	3562.3	2280.0	2357.5	2494.3	2573.6	2622.2	2696.1	2741.1	2750.1
32.5°	7094.0	5990.0	2953.6	2141.4	2314.3	2445.7	2492.6	2535.8	2533.9	2515.9	2528.6
35°	7101.2	5716.3	2460.1	2058.5	2276.4	2409.7	2449.3	2395.3	2240.4	2233.2	2226.0
37.5°	7139.1	5446.1	2101.7	2000.9	2256.7	2404.3	2425.9	2177.3	2040.5	1977.4	1961.3
40°	7236.3	5130.9	1865.8	1957.7	2254.8	2445.7	2319.6	2067.5	1804.5	1682.1	1673.1
42.5°	7366.0	4821.2	1721.7	1930.6	2276.4	2508.8	2276.4	1912.6	1626.2	1554.3	1543.4
45°	7558.7	4466.4	1642.5	1918.1	2308.9	2532.2	2262.0	1799.2	1554.3	1496.6	1496.6
47.5°	7776.6	4127.8	1599.2	1909.1	2350.3	2515.9	2134.1	1763.2	1520.0	1527.3	1561.4
50°	7992.7	3834.3	1566.9	1889.2	2386.3	2506.9	2081.9	1761.4	1529.0	1620.9	1682.1
52.5°	8243.1	3627.1	1527.3	1856.8	2386.3	2449.3	2065.7	1797.4	1554.3	1581.2	1608.2
55°	8545.6	3562.3	1476.8	1786.5	2343.0	2305.3	2056.7	1849.6	1572.2	1509.2	1520.0
57.5°	8945.5	3666.8	1428.2	1698.3	2244.0	2155.7	2053.1	1864.0	1530.8	1478.6	1467.8
60°	9410.0	3873.9	1413.7	1608.2	2109.0	2027.9	2031.5	1822.6	1473.2	1419.2	1428.2
62.5°	9736.1	3998.1	1404.7	1539.9	1961.3	1887.5	1979.3	1772.2	1447.9	1401.2	1410.2
65°	9736.1	3846.9	1321.9	1435.3	1770.4	1718.2	1916.2	1709.1	1415.6	1361.5	1352.5
67.5°	9366.9	3405.6	1195.8	1278.7	1559.6	1525.4	1828.0	1633.5	1367.0	1325.5	1303.9
70°	8405.1	2582.6	1037.4	1095.0	1293.1	1323.7	1714.5	1530.8	1285.9	1235.4	1203.1
71°	7981.9	2249.4	970.7	1001.4	1190.4	1235.4	1660.5	1487.6	1249.9	1177.8	1120.2
72.5°	7166.1	1894.6	869.8	882.5	1017.5	1098.6	1547.0	1404.7	1181.4	1078.8	1013.9
75°	5444.3	1383.1	700.6	693.4	752.8	871.7	1309.3	1251.7	1035.5	896.8	859.1
77.5°	2352.1	752.8	524.1	529.5	511.5	660.9	1030.1	1075.2	887.8	729.4	695.2
80°	713.2	434.0	358.4	365.6	342.2	443.0	725.8	842.9	713.2	567.3	520.5
82.5°	365.6	259.4	244.9	241.4	217.9	250.4	439.4	576.3	509.6	354.8	313.4
85°	158.4	138.7	120.7	117.1	102.7	90.1	156.7	288.1	270.1	198.1	189.1
87.5°	39.6	36.0	23.4	21.6	12.6	1.8	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)