

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: P648677

Luminaire Tested: **GALN-SA9B-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648677
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-SA9B-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41333 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

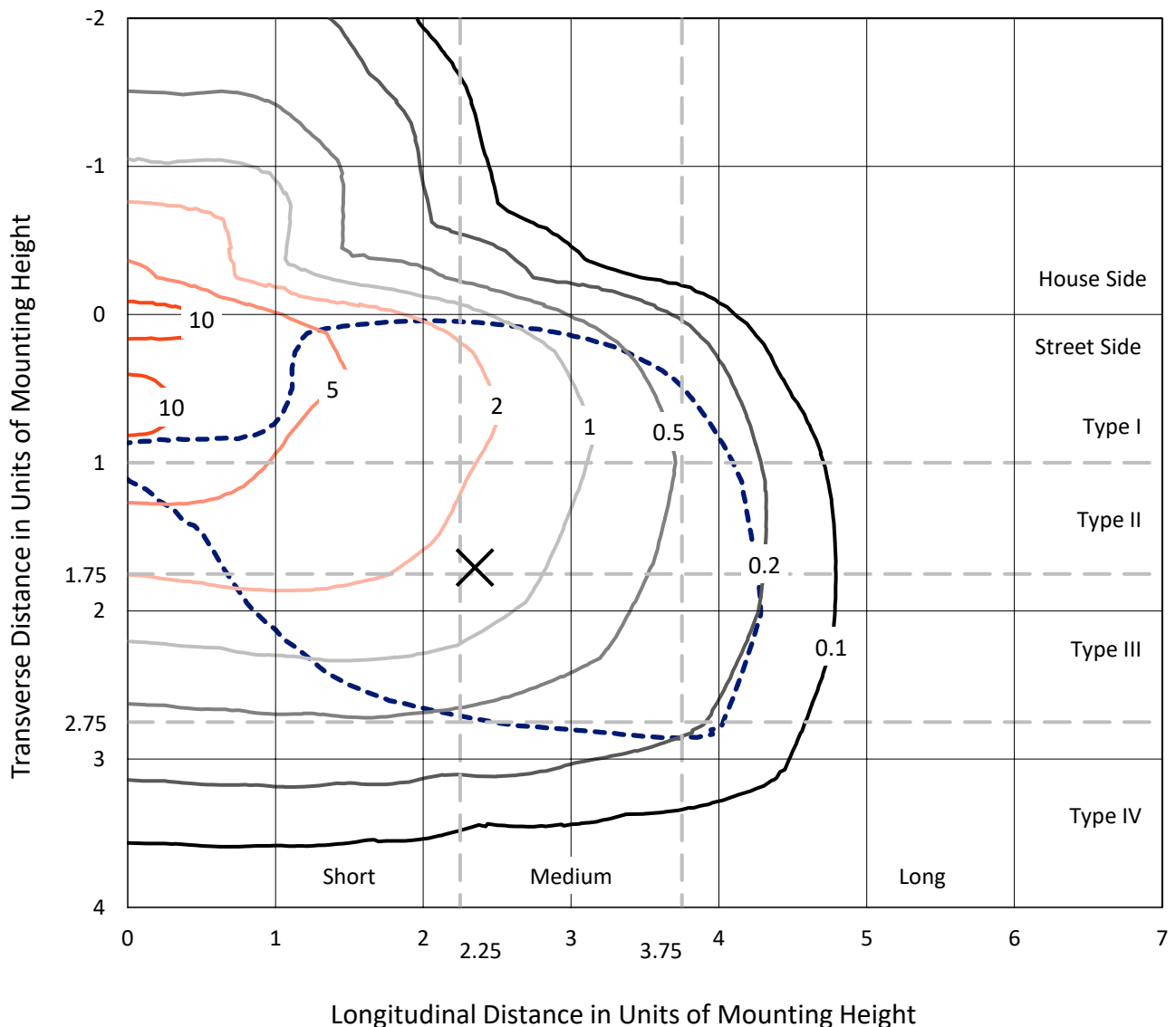
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

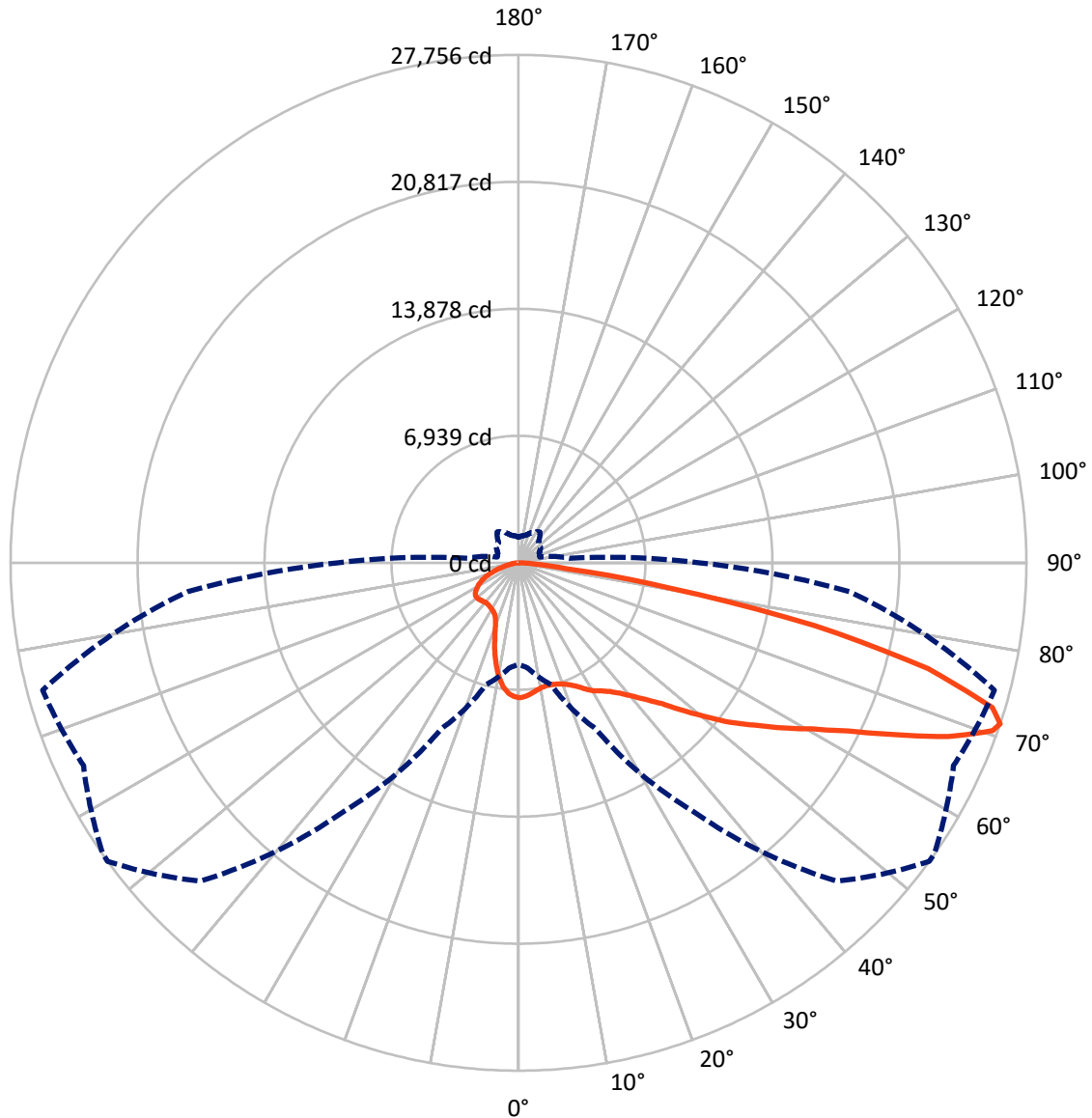
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: GALN-SA9B-835-U-T3R

Luminous Intensity Polar Plot



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

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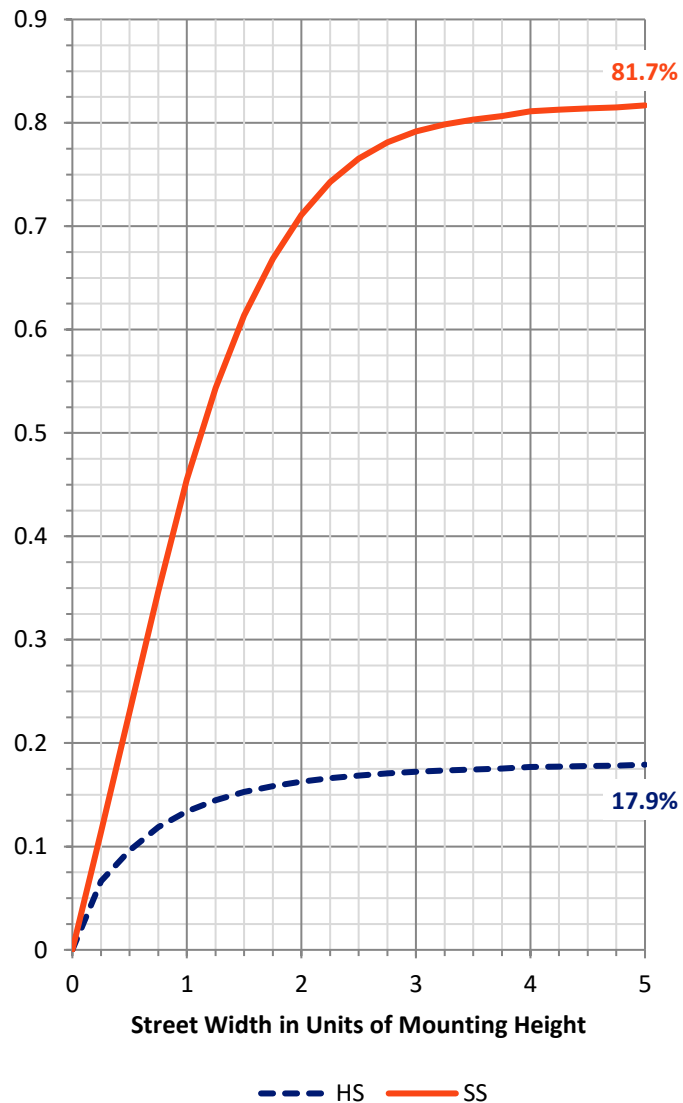
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7462.4	0.0	7462.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33870.6	0.0	33870.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	41333.0	0.0	41333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.2	1.6
10°-20°	1735.3	4.2
20°-30°	2889.3	7.0
30°-40°	4272.3	10.3
40°-50°	6017.7	14.6
50°-60°	8058.0	19.5
60°-70°	10156.4	24.6
70°-80°	6936.8	16.8
80°-90°	610.0	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°	41333.0	100.0
0°-180°	41333.0	100.0

Coefficient of Utilization

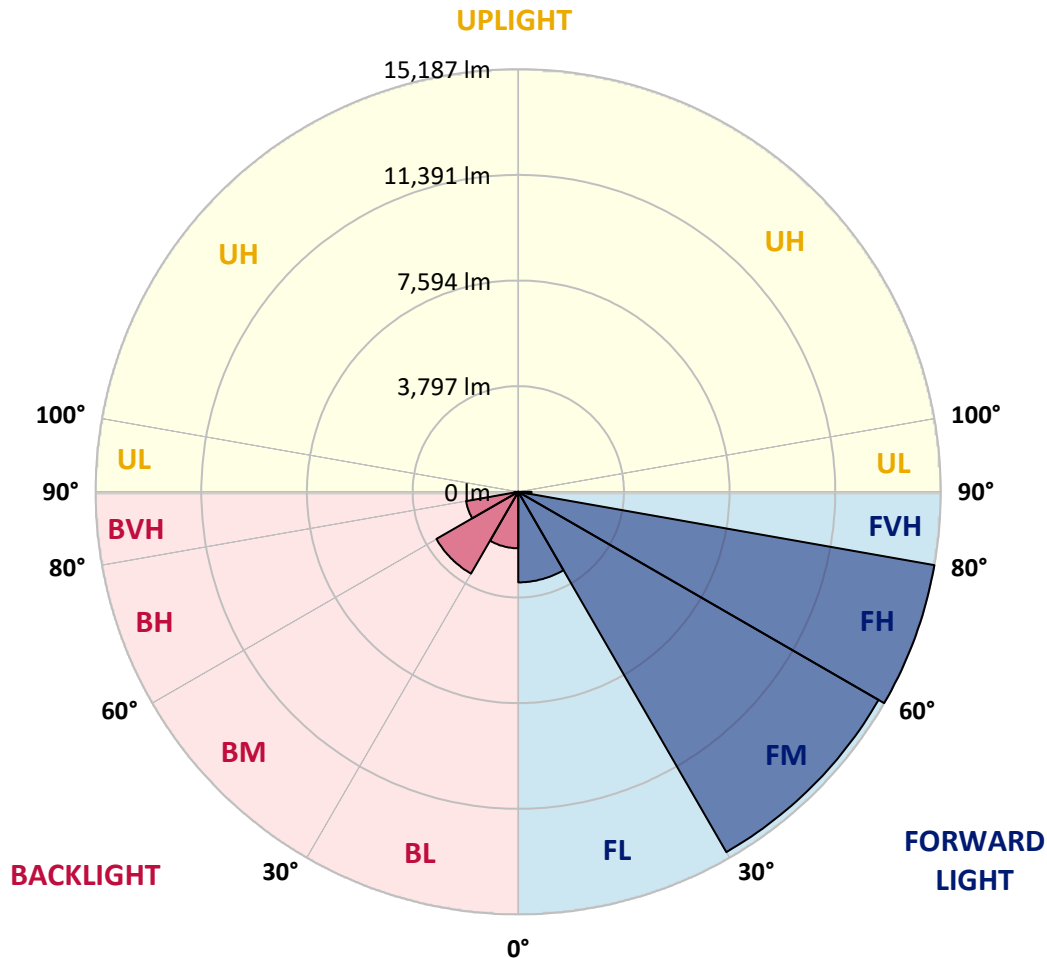


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3253.6	7.9			
FM (30°-60°)	14952.8	36.2			
FH (60°-80°)	15187.4	36.7			G5
FVH (80°-90°)	476.8	1.2			G3/500
BL (0°-30°)	2028.1	4.9	B3/2500		
BM (30°-60°)	3395.2	8.2	B3/5000		
BH (60°-80°)	1905.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	133.2	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°	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5
2.5°	7124.4	7157.9	7166.8	7189.1	7236.0	7273.9	7311.9	7307.4	7361.1	7383.4	7403.4
5°	6807.3	6816.2	6849.8	6894.4	6977.0	7081.9	7184.7	7186.8	7318.6	7423.5	7474.9
7.5°	6575.2	6604.1	6626.5	6673.4	6760.4	6874.3	7037.3	7050.7	7285.1	7492.8	7602.1
10°	6423.3	6456.8	6481.4	6539.4	6626.5	6753.8	6930.1	6954.7	7260.5	7602.1	7794.1
12.5°	6284.9	6318.4	6340.7	6416.6	6530.5	6686.7	6885.5	6914.5	7269.5	7729.4	8004.1
15°	6369.7	6396.5	6387.6	6410.0	6485.8	6664.4	6903.3	6932.4	7303.0	7852.2	8211.6
17.5°	6747.0	6769.3	6695.7	6610.9	6575.2	6706.9	6959.1	6990.4	7370.0	7979.5	8423.7
20°	7303.0	7363.3	7202.5	7012.7	6840.8	6858.7	7075.3	7108.7	7463.7	8106.7	8640.3
22.5°	8026.4	8071.0	7874.6	7562.0	7244.9	7081.9	7249.4	7269.5	7604.4	8271.9	8877.0
25°	8877.0	8903.8	8631.4	8229.5	7771.8	7463.7	7488.3	7524.0	7836.6	8459.5	9086.9
27.5°	9703.1	9787.9	9473.1	8981.9	8379.1	7865.6	7816.5	7838.8	8088.9	8564.5	9232.0
30°	10683.2	10676.5	10343.8	9774.5	9002.0	8303.2	8126.8	8122.4	8225.0	8615.7	9336.9
32.5°	11464.6	11556.1	11230.2	10609.5	9714.2	8756.4	8341.1	8332.2	8330.0	8705.1	9493.2
35°	12353.2	12366.6	12067.4	11442.3	10484.5	9325.8	8640.3	8595.7	8544.3	8897.1	9705.3
37.5°	13148.1	13210.5	12935.9	12234.8	11241.4	9917.4	9051.2	9022.1	8865.8	9229.8	10044.6
40°	13768.7	13815.6	13650.4	12982.8	11987.0	10555.9	9573.6	9520.0	9330.2	9774.5	10497.9
42.5°	13971.9	14067.8	14132.6	13804.4	12844.4	11312.8	10216.6	10149.6	10004.5	10600.6	11020.3
45°	13987.5	14139.3	14481.0	14496.5	13706.2	12219.3	10966.8	10919.9	10908.7	11658.9	11754.9
47.5°	13869.2	14023.2	14597.0	14907.4	14474.2	13134.7	12049.6	11975.9	11982.6	12967.2	12578.7
50°	13583.4	13766.5	14463.0	15170.8	15074.8	14085.8	13192.7	13168.1	13306.5	14460.8	13433.8
52.5°	13045.3	13266.4	14324.7	15336.0	15521.3	14905.1	14492.1	14422.9	14773.4	16081.7	14369.3
55°	11556.1	11888.8	13817.8	15427.5	15945.6	15688.8	15662.0	15787.0	16251.4	17850.0	15398.6
57.5°	10779.2	11029.3	12717.2	15443.2	16481.4	16599.7	17028.4	17059.6	17872.3	19727.6	16561.8
60°	10355.0	10576.1	12114.3	15340.5	17229.3	17727.2	18426.0	18537.6	19455.3	21761.6	17767.4
62.5°	9984.3	10174.1	11752.6	14985.5	18073.3	19399.5	20236.7	20290.3	21252.5	24007.6	18957.4
65°	9111.4	9328.0	11024.8	14630.5	18801.1	21489.2	22639.0	22576.5	23165.9	25945.6	19703.1
67.5°	7934.8	8209.4	9665.1	13404.8	19160.6	23773.2	25344.9	25266.8	25054.7	27215.9	19917.4
70°	6432.3	6579.6	7925.9	11286.0	17724.9	24972.1	27481.6	27399.0	26224.6	27383.4	18903.8
71°	5534.7	5764.7	6901.1	10024.6	16530.5	24605.9	27756.3	27733.9	26226.8	26921.2	18140.2
72.5°	4320.2	4460.8	5465.5	7767.4	14050.0	22525.1	27077.5	27162.3	25657.5	25637.5	16566.2
75°	2732.7	2795.2	3429.3	4572.5	7709.3	15952.2	23114.6	23344.5	22781.9	20984.6	12319.7
77.5°	1587.4	1667.8	2054.0	2694.8	3331.1	8658.2	16539.4	16789.5	15829.4	11553.9	5043.5
80°	924.3	1013.6	1352.9	1565.1	1529.4	3212.8	8421.6	8848.0	6854.2	2918.1	1415.5
82.5°	513.5	573.8	951.1	953.3	814.9	1049.4	2650.1	2772.9	1955.8	1176.6	578.2
85°	372.9	422.0	614.0	555.9	390.7	451.0	922.1	966.8	790.4	495.6	187.5
87.5°	131.7	187.5	337.2	267.9	107.2	93.8	265.7	216.6	200.9	138.4	42.4
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°	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5	7374.5
2.5°	7414.6	7419.1	7396.8	7356.5	7316.4	7265.0	7207.0	7162.3	7142.2	7140.0	7137.7
5°	7495.0	7506.2	7421.3	7296.3	7157.9	6988.2	6843.0	6677.8	6635.4	6568.4	6588.6
7.5°	7624.5	7617.8	7450.3	7184.7	6860.9	6501.5	6197.8	6021.4	5838.4	5787.0	5789.3
10°	7809.8	7767.4	7450.3	6956.9	6416.6	5883.0	5458.8	5190.9	5045.8	4925.2	4880.6
12.5°	8006.3	7899.1	7378.9	6637.6	5845.1	5190.9	4735.4	4373.8	4280.0	4181.8	4184.0
15°	8193.8	8015.2	7238.2	6188.9	5228.9	4451.9	4009.8	3793.2	3764.3	3775.4	3773.2
17.5°	8363.5	8097.8	7023.9	5688.8	4509.9	3817.8	3583.4	3599.1	3677.1	3733.0	3739.7
20°	8535.4	8146.9	6704.6	5019.0	3831.2	3433.8	3442.8	3565.5	3683.9	3759.8	3770.9
22.5°	8698.3	8169.3	6329.5	4371.5	3340.0	3270.8	3402.5	3534.3	3650.3	3724.0	3735.2
25°	8805.5	8117.9	5798.2	3695.1	3098.9	3212.8	3351.2	3462.8	3561.1	3637.0	3654.8
27.5°	8834.6	7952.7	5139.5	3148.1	2987.3	3157.0	3284.2	3366.8	3442.8	3514.2	3527.6
30°	8818.9	7709.3	4416.2	2826.6	2922.5	3092.2	3190.4	3250.7	3342.2	3398.1	3409.3
32.5°	8794.3	7425.7	3661.5	2654.6	2868.9	3031.9	3090.0	3143.6	3141.3	3119.0	3134.7
35°	8803.3	7086.4	3049.8	2551.9	2822.1	2987.3	3036.4	2969.4	2777.4	2768.5	2759.5
37.5°	8850.2	6751.5	2605.5	2480.5	2797.5	2980.6	3007.3	2699.2	2529.6	2451.4	2431.4
40°	8970.8	6360.8	2313.0	2426.9	2795.2	3031.9	2875.6	2563.1	2237.1	2085.3	2074.1
42.5°	9131.5	5976.8	2134.4	2393.4	2822.1	3110.1	2822.1	2371.1	2016.1	1926.8	1913.3
45°	9370.4	5537.0	2036.2	2377.7	2862.3	3139.1	2804.2	2230.4	1926.8	1855.3	1855.3
47.5°	9640.5	5117.2	1982.6	2366.6	2913.6	3119.0	2645.7	2185.7	1884.4	1893.3	1935.7
50°	9908.5	4753.3	1942.4	2342.0	2958.3	3107.8	2580.9	2183.6	1895.5	2009.4	2085.3
52.5°	10218.8	4496.5	1893.3	2301.9	2958.3	3036.4	2560.9	2228.2	1926.8	1960.2	1993.8
55°	10593.9	4416.2	1830.7	2214.8	2904.7	2857.8	2549.7	2292.9	1949.1	1871.0	1884.4
57.5°	11089.6	4545.6	1770.5	2105.4	2781.8	2672.5	2545.2	2310.8	1897.8	1833.0	1819.6
60°	11665.5	4802.5	1752.6	1993.8	2614.4	2514.0	2518.4	2259.4	1826.3	1759.3	1770.5
62.5°	12069.6	4956.5	1741.5	1908.9	2431.4	2339.8	2453.7	2196.9	1795.0	1737.0	1748.1
65°	12069.6	4768.9	1638.7	1779.4	2194.7	2129.9	2375.5	2118.8	1754.9	1687.9	1676.7
67.5°	11612.0	4221.9	1482.5	1585.2	1933.5	1891.0	2266.2	2025.0	1694.6	1643.2	1616.4
70°	10419.8	3201.6	1286.0	1357.4	1603.0	1641.0	2125.5	1897.8	1594.1	1531.6	1491.4
71°	9895.1	2788.6	1203.4	1241.4	1475.8	1531.6	2058.5	1844.2	1549.5	1460.1	1388.7
72.5°	8883.7	2348.8	1078.3	1094.0	1261.4	1362.0	1917.8	1741.5	1464.6	1337.4	1256.9
75°	6749.3	1714.7	868.5	859.6	933.3	1080.6	1623.2	1551.7	1283.8	1111.9	1065.0
77.5°	2915.8	933.3	649.7	656.4	634.1	819.4	1277.1	1332.9	1100.7	904.2	861.8
80°	884.2	538.1	444.3	453.2	424.2	549.2	899.7	1044.9	884.2	703.3	645.3
82.5°	453.2	321.5	303.6	299.2	270.1	310.3	544.7	714.4	631.8	439.8	388.4
85°	196.5	171.9	149.6	145.1	127.2	111.7	194.3	357.2	334.9	245.6	234.4
87.5°	49.1	44.6	29.0	26.8	15.7	2.3	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)