

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: P455457

Luminaire Tested: **GALN-SA6C-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455457
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-SA6C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30822 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

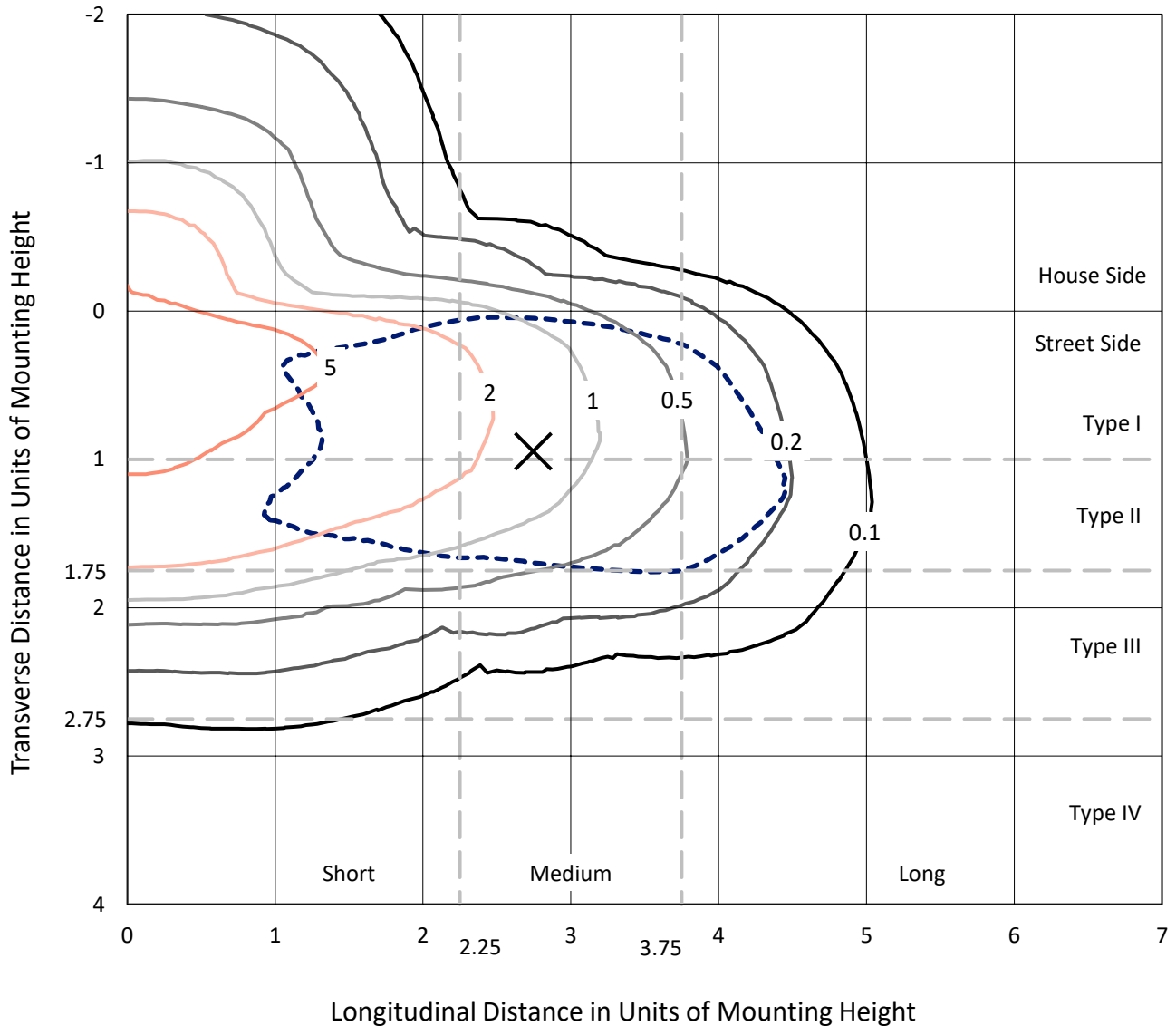
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

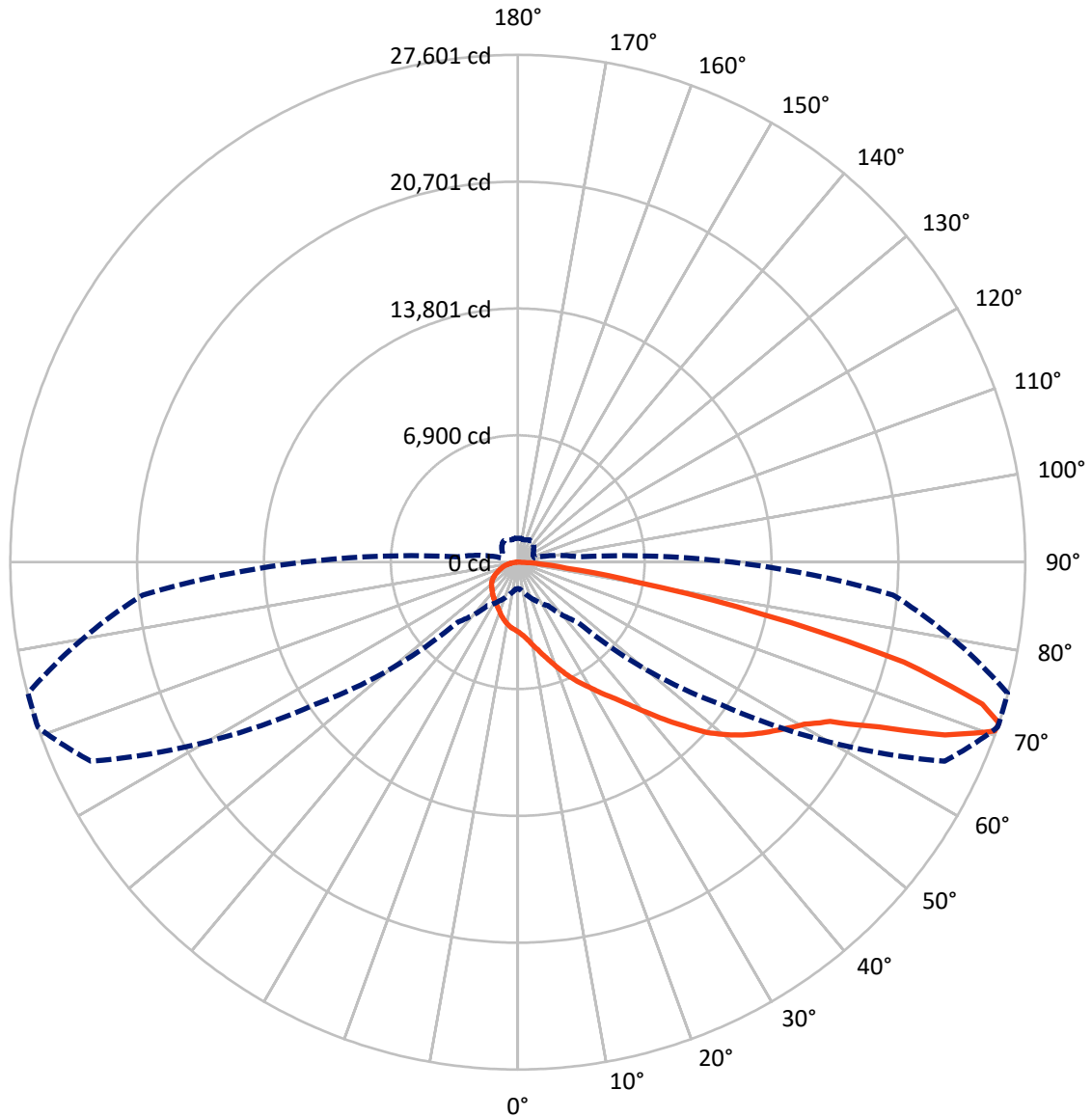
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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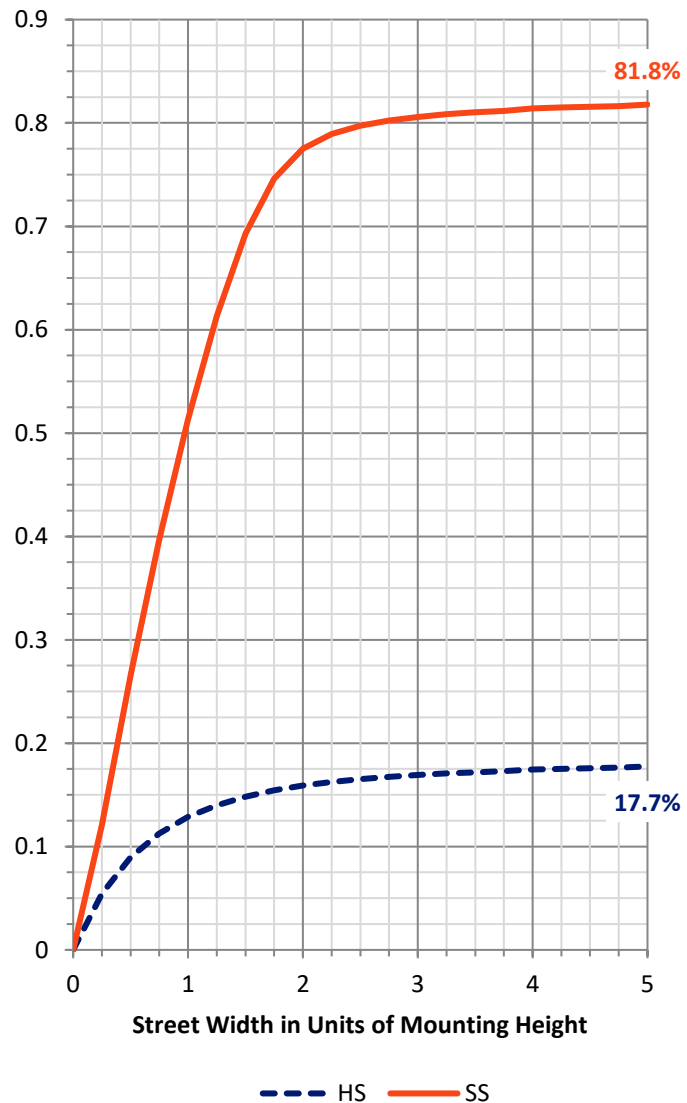
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5543.3	0.0	5543.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	25278.7	0.0	25278.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	30822.0	0.0	30822.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	1.2
10°-20°	1234.0	4.0
20°-30°	2156.5	7.0
30°-40°	3207.5	10.4
40°-50°	4725.9	15.3
50°-60°	6616.3	21.5
60°-70°	7400.1	24.0
70°-80°	4520.3	14.7
80°-90°	581.5	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°	30822.0	100.0
0°-180°	30822.0	100.0



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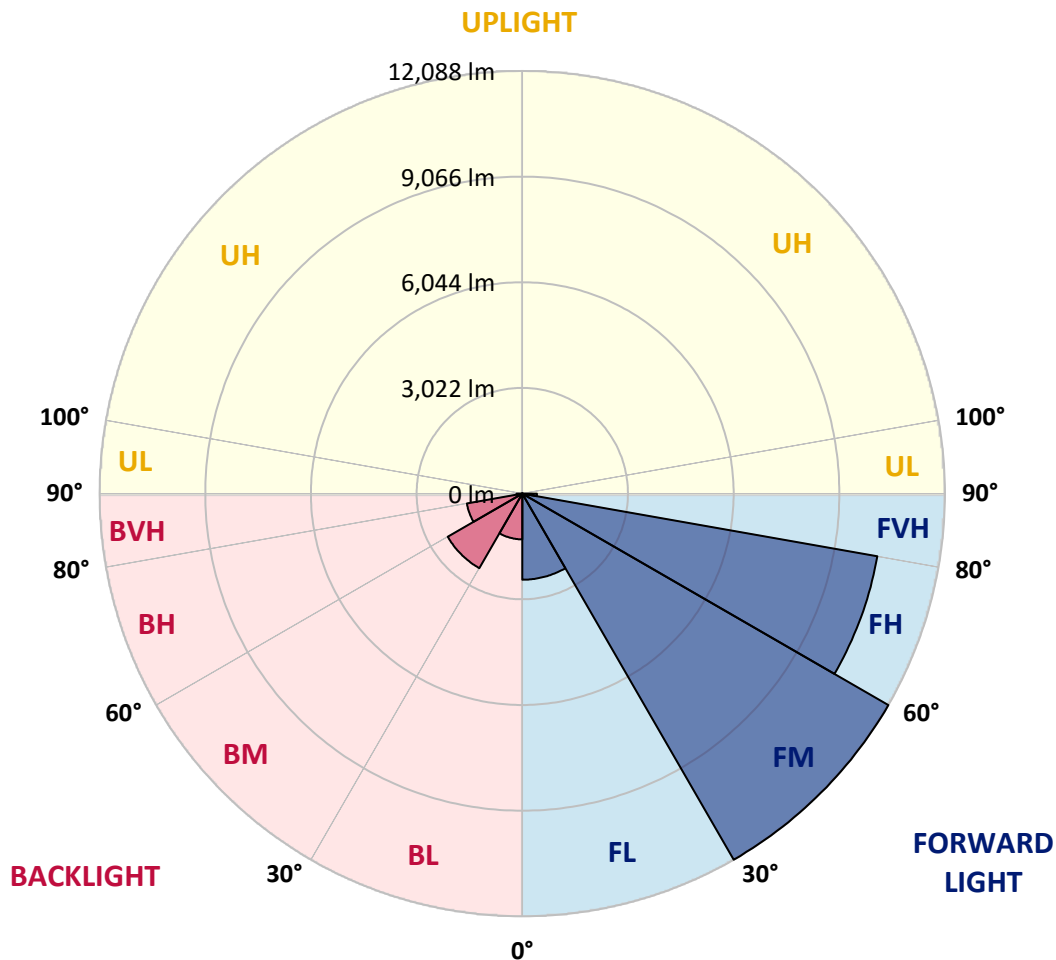
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2462.7	8.0			
FM	(30°-60°)	12087.8	39.2			
FH	(60°-80°)	10309.9	33.4			G4/12000
FVH	(80°-90°)	418.4	1.4			G3/500
BL	(0°-30°)	1307.6	4.2	B3/2500		
BM	(30°-60°)	2462.0	8.0	B2/2500		
BH	(60°-80°)	1610.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	163.1	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°	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8
2.5°	4199.5	4179.2	4180.9	4152.1	4114.8	4074.2	4016.6	3965.7	3925.1	3901.4	3831.9
5°	4653.5	4633.2	4607.8	4545.1	4518.0	4418.1	4291.0	4175.8	4087.7	4038.6	3899.7
7.5°	5021.1	5016.1	5009.3	4973.7	4904.2	4765.3	4656.9	4457.0	4326.6	4233.4	3996.2
10°	5248.1	5256.6	5261.7	5268.5	5239.7	5166.8	5017.7	4765.3	4599.3	4480.7	4121.6
12.5°	5363.3	5371.8	5400.6	5463.3	5502.2	5493.8	5371.8	5124.5	4895.8	4739.9	4255.4
15°	5434.5	5448.0	5498.9	5581.9	5712.3	5795.3	5736.0	5507.3	5256.6	5072.0	4414.7
17.5°	5512.4	5527.7	5583.6	5702.1	5873.2	6052.8	6117.2	5920.7	5647.9	5427.7	4592.5
20°	5556.5	5576.8	5656.4	5812.3	6012.1	6273.0	6486.5	6383.1	6085.0	5841.1	4797.5
22.5°	5627.6	5644.5	5712.3	5878.3	6117.2	6444.1	6855.8	6833.8	6571.2	6256.1	5022.8
25°	5820.7	5847.8	5881.7	5981.7	6212.0	6618.6	7162.4	7314.9	7042.1	6689.8	5229.5
27.5°	6184.9	6207.0	6205.3	6218.8	6349.3	6769.4	7428.4	7790.9	7509.7	7128.5	5429.4
30°	6600.0	6608.5	6615.2	6584.7	6613.5	6923.5	7672.3	8261.8	7980.6	7579.1	5603.9
32.5°	7104.8	7121.7	7064.1	6986.2	6962.5	7152.2	7873.9	8732.8	8538.0	8036.5	5776.7
35°	7701.1	7745.2	7628.3	7491.0	7394.5	7480.9	8144.9	9213.9	9108.9	8621.0	6005.4
37.5°	8382.1	8436.3	8327.9	8058.6	7921.3	7945.1	8499.0	9808.5	9830.5	9286.7	6345.9
40°	8939.5	9010.6	9014.0	8632.8	8424.5	8451.6	8947.9	10448.8	10701.3	10110.0	6747.4
42.5°	9307.1	9376.5	9449.4	9225.7	9007.2	9161.4	9471.4	11143.4	11680.4	11109.5	7308.1
45°	9710.2	9772.9	9813.6	9711.9	9590.0	9989.8	10103.3	11882.0	12723.9	12225.9	7921.3
47.5°	10177.8	10247.3	10286.2	10189.7	10143.9	10716.5	10784.3	12571.5	13838.6	13310.1	8598.9
50°	10801.2	10853.7	10833.4	10772.4	10762.2	11273.8	11438.2	13216.9	14758.5	14477.3	9302.0
52.5°	11577.1	11639.8	11661.8	11575.4	11536.4	11671.9	11965.0	13804.7	15595.3	15480.1	10052.4
55°	12046.3	12146.3	12481.7	12617.2	12710.4	12186.9	12532.5	14453.6	16345.8	16537.2	10858.8
57.5°	11444.9	11573.7	12324.1	13001.8	13877.6	13474.4	13337.2	15131.2	17096.3	17562.1	11824.4
60°	9977.9	10006.7	10974.0	12222.5	13984.3	15129.5	15016.0	16208.6	17909.4	18595.5	13096.6
62.5°	6921.8	6982.8	8126.3	10118.5	12666.3	15725.8	17872.1	18068.6	19074.9	20142.1	14961.8
65°	3569.3	3489.7	4531.6	6359.4	9549.3	14309.6	20186.2	21488.9	21602.4	22561.2	17587.5
67.5°	2197.2	2232.7	2720.6	3713.3	5646.2	10399.7	19943.9	25668.1	25070.1	25530.9	20025.3
70°	1650.0	1694.0	2029.5	2541.1	3442.3	5946.1	16039.2	26681.1	27516.3	27397.7	20767.2
71°	1434.9	1480.6	1829.6	2312.4	2891.7	4589.2	13513.4	25620.7	27601.0	27580.7	20487.7
72.5°	1223.1	1251.9	1524.6	1958.3	2437.7	3217.0	10152.4	22978.0	26423.6	27099.6	19489.9
75°	960.5	982.5	1104.5	1494.1	1919.3	1975.3	5448.0	17226.7	21702.4	22989.8	16225.5
77.5°	782.6	797.9	860.6	1109.6	1480.6	1399.3	2857.8	11212.9	13596.4	14892.3	9557.8
80°	621.7	638.7	675.9	752.2	1109.6	997.8	1363.7	5681.8	6567.8	6554.2	3815.0
82.5°	482.8	487.9	531.9	552.3	758.9	708.1	738.6	2405.5	2664.7	2752.8	1377.3
85°	304.9	320.2	470.9	423.5	454.0	415.0	364.2	955.4	1177.4	1160.4	550.6
87.5°	93.2	98.3	159.2	179.6	201.6	181.3	133.8	281.2	343.9	372.7	137.2
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°	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8	3782.8
2.5°	3804.8	3786.2	3720.1	3665.9	3615.1	3559.2	3511.7	3498.2	3486.3	3481.3	3479.6
5°	3840.4	3784.5	3654.0	3547.3	3462.6	3384.7	3335.6	3313.5	3291.5	3291.5	3298.3
7.5°	3891.2	3789.6	3588.0	3428.7	3322.0	3249.2	3213.6	3210.2	3215.3	3220.4	3222.1
10°	3947.1	3786.2	3491.4	3293.2	3198.3	3164.5	3166.2	3195.0	3222.1	3242.4	3245.8
12.5°	4001.3	3765.9	3377.9	3166.2	3105.2	3112.0	3159.4	3223.8	3276.3	3305.1	3306.8
15°	4062.3	3733.7	3240.7	3045.9	3025.6	3078.1	3166.2	3264.4	3344.0	3391.5	3396.6
17.5°	4113.1	3679.5	3096.7	2929.0	2954.4	3051.0	3172.9	3300.0	3396.6	3455.8	3466.0
20°	4170.7	3610.0	2947.6	2817.2	2890.0	3020.5	3159.4	3296.6	3396.6	3454.1	3467.7
22.5°	4216.5	3511.7	2805.3	2725.7	2832.4	2983.2	3113.6	3223.8	3305.1	3335.6	3355.9
25°	4235.1	3388.1	2671.5	2651.2	2786.7	2922.2	3010.3	3073.0	3098.4	3095.0	3103.5
27.5°	4224.9	3245.8	2556.3	2591.9	2729.1	2827.4	2871.4	2866.3	2820.6	2778.2	2798.6
30°	4182.6	3076.4	2459.7	2530.9	2654.6	2708.8	2702.0	2635.9	2549.5	2469.9	2475.0
32.5°	4106.4	2893.4	2370.0	2461.4	2549.5	2573.2	2527.5	2441.1	2317.4	2214.1	2198.9
35°	4042.0	2718.9	2290.3	2381.8	2444.5	2432.6	2388.6	2276.8	2165.0	2073.5	2058.3
37.5°	4031.8	2569.9	2214.1	2292.0	2327.6	2310.7	2256.5	2161.6	2120.9	2051.5	2043.0
40°	4086.0	2464.8	2136.2	2197.2	2214.1	2200.6	2141.3	2087.1	2124.3	2107.4	2107.4
42.5°	4233.4	2408.9	2066.7	2102.3	2115.9	2126.0	2083.7	2037.9	2083.7	2005.7	1980.3
45°	4467.2	2410.6	2004.0	2009.1	2049.8	2085.4	2056.6	1988.8	1965.1	1809.2	1778.7
47.5°	4811.1	2468.2	1953.2	1921.0	1993.9	2053.2	2012.5	1914.3	1809.2	1705.9	1687.3
50°	5212.6	2571.6	1907.5	1829.6	1919.3	2012.5	1982.0	1866.8	1758.4	1695.7	1683.9
52.5°	5658.1	2702.0	1851.6	1727.9	1827.9	1993.9	1988.8	1860.1	1711.0	1668.6	1658.5
55°	6208.7	2830.7	1782.1	1609.3	1746.6	1978.6	1970.2	1804.2	1700.8	1670.3	1666.9
57.5°	6849.0	3017.1	1682.2	1489.1	1653.4	1916.0	1897.3	1770.3	1666.9	1644.9	1643.2
60°	7880.7	3306.8	1539.9	1378.9	1558.5	1805.8	1829.6	1712.7	1612.7	1607.6	1606.0
62.5°	9237.6	3713.3	1392.5	1265.4	1448.4	1663.5	1731.3	1634.7	1555.1	1580.5	1583.9
65°	11111.2	4055.5	1240.0	1168.9	1326.4	1526.3	1638.1	1561.9	1490.8	1539.9	1539.9
67.5°	12332.6	4062.3	1101.1	1068.9	1202.8	1411.1	1539.9	1475.5	1407.7	1490.8	1494.1
70°	12078.5	3559.2	985.9	963.9	1082.5	1287.5	1431.5	1380.6	1302.7	1377.3	1350.2
71°	11668.6	3279.7	940.2	923.3	1035.1	1228.2	1380.6	1338.3	1260.4	1309.5	1294.2
72.5°	11014.7	2847.7	865.7	869.0	963.9	1153.6	1309.5	1265.4	1187.5	1214.6	1209.5
75°	9310.4	2486.9	740.3	755.5	828.4	1026.6	1167.2	1133.3	1053.7	1053.7	1048.6
77.5°	5820.7	1738.1	614.9	623.4	703.0	879.2	1002.9	974.1	897.8	872.4	865.7
80°	2171.8	897.8	481.1	491.3	540.4	692.9	830.1	803.0	725.0	696.3	669.1
82.5°	821.6	450.6	354.1	345.6	398.1	528.5	650.5	618.3	557.3	487.9	467.6
85°	310.0	223.6	216.8	210.1	233.8	313.4	403.2	396.4	332.0	282.9	277.8
87.5°	81.3	72.8	84.7	62.7	66.1	59.3	61.0	25.4	11.9	5.1	3.4
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)