

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: P533102

Luminaire Tested: **GALN-SA8C-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43367 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

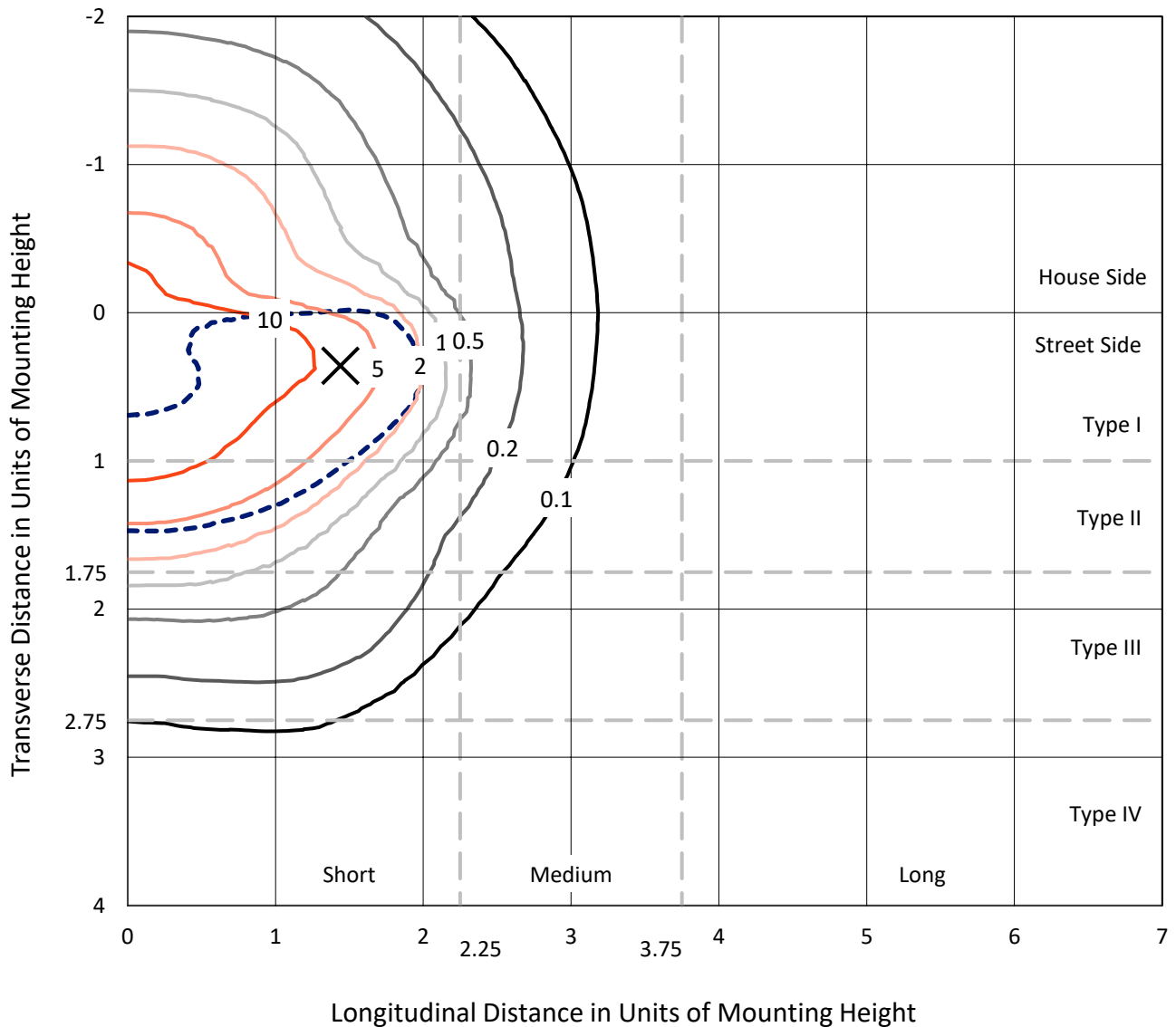
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533102
 CATALOG NUMBER: GALN-SA8C-730-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

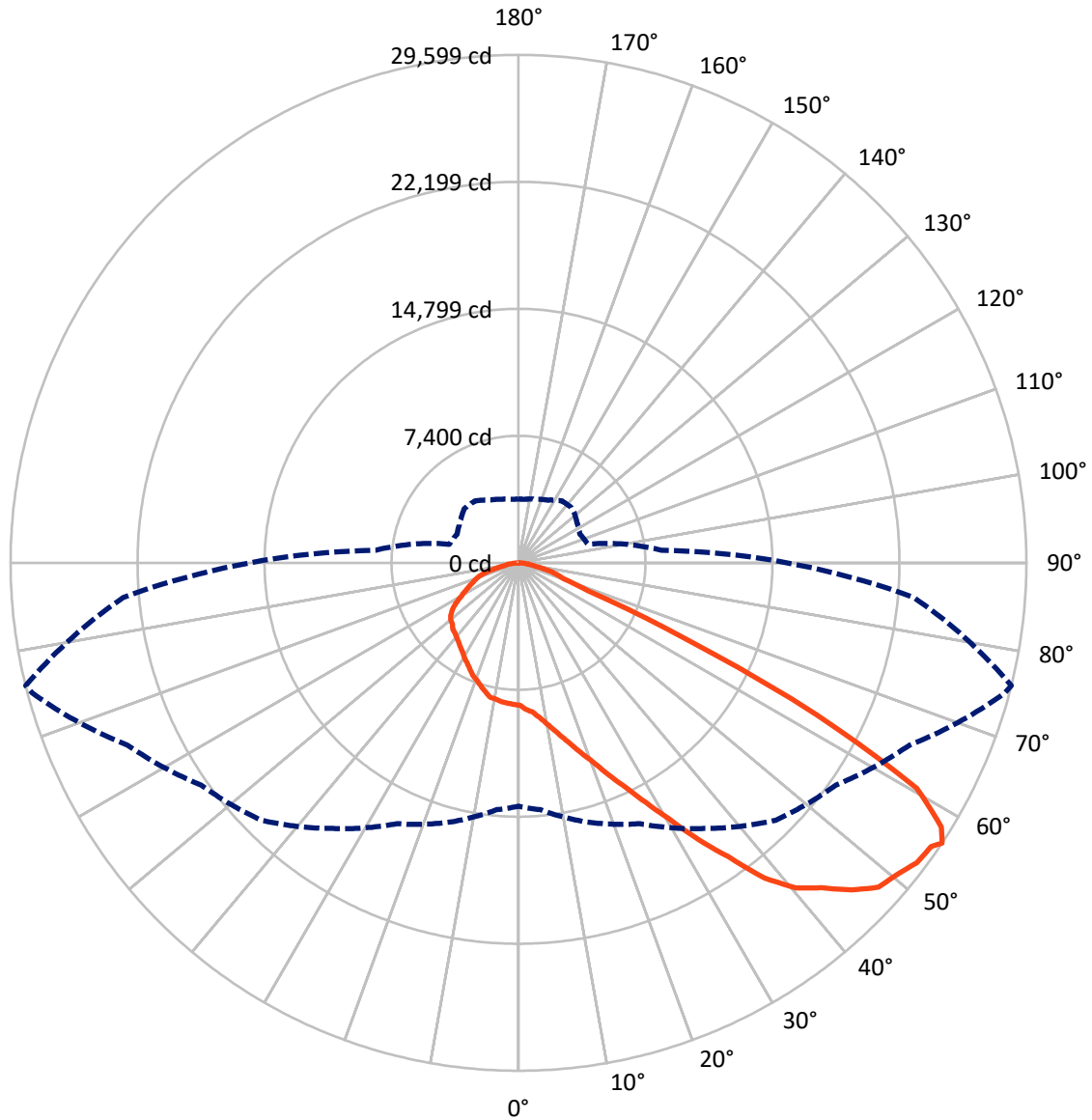
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

REPORT NUMBER: P533102
CATALOG NUMBER: GALN-SA8C-730-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P533102
 CATALOG NUMBER: GALN-SA8C-730-U-T2-GRSWH

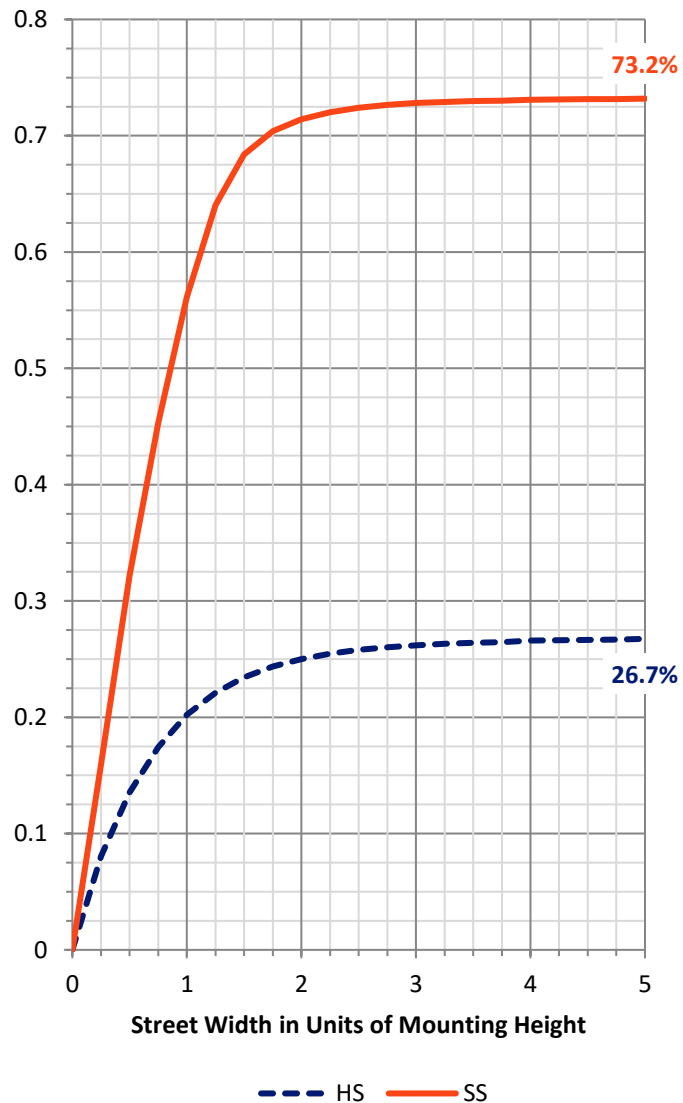
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11660.1	0.0	11660.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	31706.9	0.0	31706.9
	% Fixture	73.1	0.0	73.1
Total	Lumens	43367.0	0.0	43367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.9	1.9
10°-20°	2584.9	6.0
20°-30°	4520.7	10.4
30°-40°	7078.1	16.3
40°-50°	10296.7	23.7
50°-60°	11316.7	26.1
60°-70°	5051.3	11.6
70°-80°	1459.0	3.4
80°-90°	236.7	0.5
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°	43367.0	100.0
0°-180°	43367.0	100.0

Coefficient of Utilization



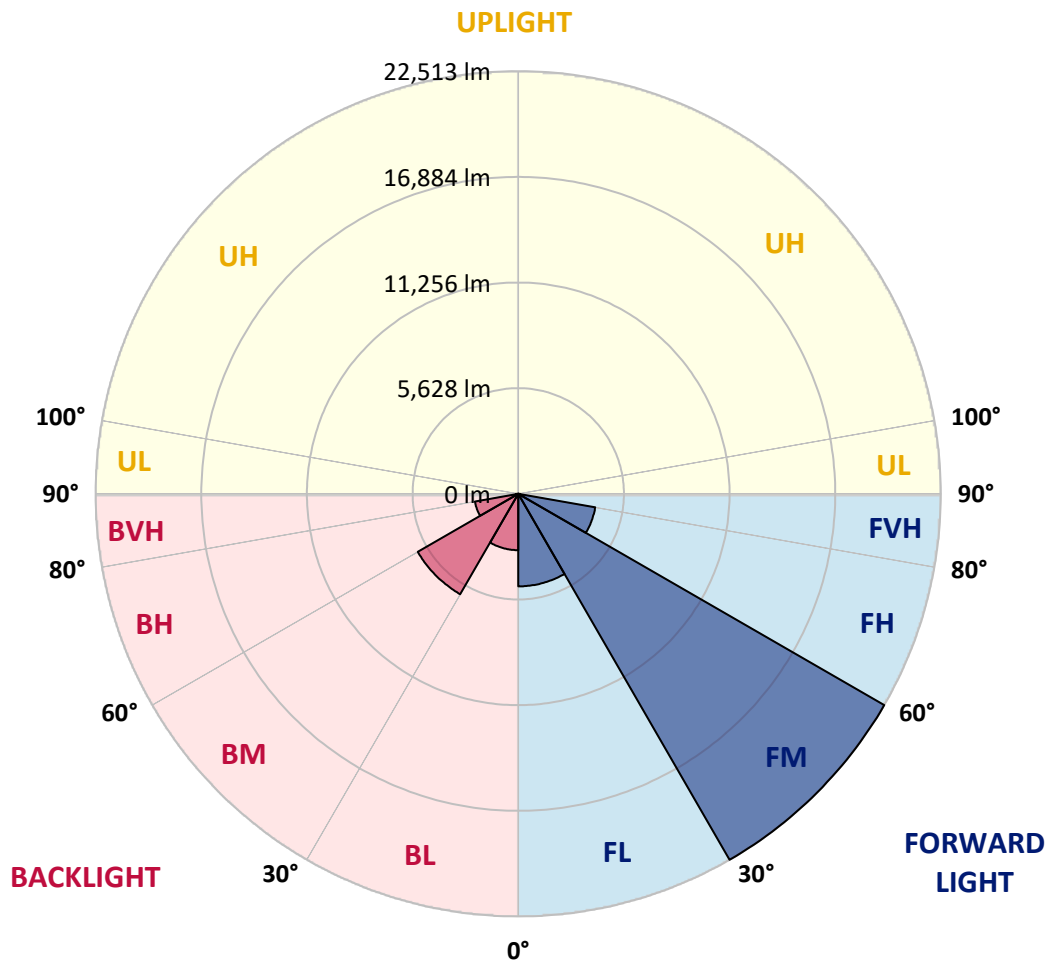
REPORT NUMBER: P533102
 CATALOG NUMBER: GALN-SA8C-730-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4928.2	11.4			
FM (30°-60°)	22512.6	51.9			
FH (60°-80°)	4164.3	9.6			G2/5000
FVH (80°-90°)	101.9	0.2			G2/225
BL (0°-30°)	3000.4	6.9	B4/5000		
BM (30°-60°)	6178.9	14.2	B4/8500		
BH (60°-80°)	2346.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	134.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P533102

CATALOG NUMBER: GALN-SA8C-730-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7
2.5°	9141.0	8994.8	8983.6	8944.2	8966.7	8865.5	8758.7	8618.2	8472.0	8561.9	8348.3
5°	9781.9	9585.1	9663.8	9528.9	9545.7	9410.8	9191.6	9028.5	8848.7	8741.8	8590.1
7.5°	10006.7	10023.6	10079.8	10057.3	9944.9	9944.9	9798.7	9512.0	9197.2	9135.4	8882.4
10°	10310.3	10315.9	10254.1	10271.0	10428.4	10355.3	10226.0	10102.3	9697.5	9624.5	9174.7
12.5°	10417.1	10315.9	10417.1	10507.1	10692.6	10793.8	10765.7	10675.7	10242.8	10192.3	9534.5
15°	10434.0	10372.1	10456.5	10658.9	10821.9	11249.1	11462.8	11400.9	10827.5	10833.1	9939.3
17.5°	10355.3	10439.6	10473.3	10647.6	11024.3	11423.4	12041.8	12126.1	11653.9	11580.8	10450.9
20°	10462.1	10400.3	10445.2	10602.6	11103.0	11727.0	12536.5	13093.1	12429.7	12379.1	10979.3
22.5°	10872.5	10788.2	10776.9	10878.1	11237.9	11884.4	13059.3	14060.0	13374.2	13402.3	11637.0
25°	11192.9	11237.9	11198.5	11192.9	11417.8	12120.5	13750.8	15212.5	14655.9	14492.9	12412.8
27.5°	11743.9	11850.7	11772.0	11878.8	11828.2	12474.7	14245.5	16488.6	16038.9	15819.6	13115.6
30°	12508.4	12564.6	12491.6	12491.6	12339.8	12969.4	14695.3	17821.0	17635.5	17337.5	13942.0
32.5°	13514.7	13599.0	13452.9	13368.5	13346.1	13705.9	15504.8	19136.5	19451.3	19198.3	15038.2
35°	14847.1	14796.5	14622.2	14543.5	14239.9	14835.8	16707.9	20648.7	21475.1	21025.4	16364.9
37.5°	16022.0	15943.3	15932.1	15493.6	15566.7	16055.7	17731.0	21795.6	23437.1	23307.8	17764.8
40°	17118.3	17191.3	17309.4	17062.0	16949.6	17489.3	18922.8	22672.6	24960.6	24910.0	18844.1
42.5°	18293.2	18225.7	18433.8	18225.7	18057.1	18821.7	20215.9	23279.7	26298.6	25882.6	19974.1
45°	19996.6	19783.0	19856.1	19872.9	19749.2	20030.3	20749.9	23718.2	27237.4	27192.5	20800.5
47.5°	21418.9	21424.5	21300.9	21205.3	20828.6	21109.7	21345.8	23993.7	28316.8	28243.7	21121.0
50°	21947.4	21874.3	22234.1	22442.1	22464.6	21891.1	21812.4	24145.5	28884.6	28564.2	21441.4
52.5°	20047.2	20114.7	20682.5	21919.2	22633.2	22695.0	22357.7	24460.3	29115.1	29047.6	21700.0
55°	16134.5	16460.5	17393.7	18821.7	20513.8	22374.6	22948.0	24786.3	29238.8	29182.6	22846.8
56°	14183.7	14436.7	15651.0	16769.7	18894.7	21210.9	22577.0	25134.9	29334.3	29598.6	23116.7
57.5°	11417.8	11710.1	12581.5	13852.0	16359.3	18995.9	21553.8	24707.6	28963.3	29064.5	23313.4
60°	7139.6	7167.7	8213.4	9051.0	10816.3	13391.0	16449.3	21497.6	26804.6	26658.4	20941.1
62.5°	4682.9	4688.5	5638.6	6324.5	7128.4	7718.7	9680.7	14256.8	19777.4	19518.8	14908.9
65°	3288.7	3361.8	4098.3	5014.6	5340.7	5031.5	4969.6	7516.3	11046.8	10675.7	8011.0
67.5°	2406.1	2411.7	3063.9	4047.7	4519.9	3828.4	3108.8	3671.0	4373.7	4362.5	3710.4
70°	1591.0	1658.4	2158.8	3024.5	3564.2	3075.1	2541.0	2625.4	2782.8	2782.8	2760.3
72.5°	927.6	989.4	1321.1	1917.0	2001.3	1922.6	2012.6	2248.7	2349.9	2344.3	2316.2
75°	528.4	556.6	629.6	798.3	995.1	1174.9	1478.5	1703.4	1804.6	1866.4	1793.3
77.5°	309.2	326.1	371.0	455.4	517.2	635.3	803.9	961.3	1096.2	1079.4	1090.6
80°	163.0	163.0	208.0	269.8	359.8	449.7	534.1	624.0	697.1	714.0	730.8
82.5°	95.6	101.2	134.9	196.8	258.6	320.4	410.4	472.2	539.7	545.3	556.6
85°	50.6	56.2	84.3	129.3	174.3	196.8	202.4	191.1	208.0	196.8	224.9
87.5°	16.9	16.9	28.1	22.5	22.5	28.1	33.7	33.7	45.0	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P533102

CATALOG NUMBER: GALN-SA8C-730-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7	8297.7
2.5°	8342.7	8342.7	8247.1	8067.2	8039.1	7966.0	7898.6	7893.0	7842.4	7797.4	7774.9
5°	8500.1	8325.8	8185.3	8022.3	7831.1	7741.2	7640.0	7527.5	7482.6	7527.5	7521.9
7.5°	8680.0	8533.8	8112.2	7808.6	7589.4	7499.4	7387.0	7268.9	7280.2	7280.2	7201.5
10°	8854.3	8657.5	7982.9	7595.0	7274.6	7207.1	7145.3	7190.2	7246.4	7257.7	7207.1
12.5°	9146.6	8702.5	7921.1	7381.4	7179.0	7032.8	7072.2	7195.9	7313.9	7280.2	7319.5
15°	9365.9	8741.8	7640.0	7162.1	6909.1	6976.6	7117.1	7201.5	7398.2	7375.7	7415.1
17.5°	9579.5	8764.3	7364.5	6869.8	6763.0	6948.5	7055.3	7297.0	7358.9	7493.8	7544.4
20°	10018.0	8809.3	7083.4	6689.9	6656.2	6869.8	7055.3	7167.7	7302.7	7420.7	7420.7
22.5°	10242.8	8786.8	6897.9	6453.8	6560.6	6695.5	6864.2	7055.3	7055.3	7167.7	7173.4
25°	10523.9	8696.9	6605.6	6341.3	6420.1	6549.4	6740.5	6673.0	6746.1	6746.1	6836.1
27.5°	10844.4	8505.7	6352.6	6139.0	6296.4	6436.9	6465.0	6420.1	6335.7	6324.5	6290.8
30°	11103.0	8269.6	6167.1	6071.5	6200.8	6279.5	6189.6	6094.0	5947.8	5936.6	5857.9
32.5°	11457.1	7977.3	5936.6	5902.8	6049.0	6054.6	6026.5	5880.4	5666.7	5576.8	5486.8
35°	12053.1	7808.6	5762.3	5812.9	5857.9	5841.0	5790.4	5633.0	5419.4	5380.0	5346.3
37.5°	12491.6	7684.9	5582.4	5644.2	5683.6	5706.1	5554.3	5380.0	5385.6	5306.9	5284.5
40°	12986.3	7606.2	5436.2	5464.4	5470.0	5543.1	5357.5	5273.2	5312.6	5262.0	5295.7
42.5°	13621.5	7628.7	5284.5	5262.0	5368.8	5340.7	5250.7	5138.3	5160.8	5009.0	5031.5
45°	13958.8	7780.5	5194.5	5093.3	5211.4	5205.8	5087.7	4980.9	4846.0	4553.6	4564.9
47.5°	14183.7	7819.9	4980.9	4913.4	5037.1	5110.2	4975.3	4727.9	4536.8	4328.8	4278.2
50°	14414.2	7893.0	4879.7	4739.1	4789.7	4964.0	4795.4	4559.2	4373.7	4188.2	4216.3
52.5°	14616.6	8033.5	4682.9	4474.9	4564.9	4756.0	4666.1	4379.4	4177.0	4025.2	3980.2
55°	15516.1	8348.3	4351.2	4081.4	4295.0	4536.8	4486.2	4137.6	3918.4	3839.7	3828.4
56°	15656.6	8359.6	4177.0	3946.5	4143.2	4463.7	4401.8	4030.8	3834.0	3710.4	3716.0
57.5°	15679.1	8224.6	3929.6	3822.8	3991.5	4356.9	4278.2	3946.5	3676.6	3564.2	3530.5
60°	13795.8	6420.1	3620.4	3553.0	3749.7	4030.8	4002.7	3716.0	3412.4	3283.1	3344.9
62.5°	9405.2	4705.4	3378.7	3367.4	3468.6	3744.1	3671.0	3412.4	3159.4	3075.1	3035.8
65°	5475.6	3569.8	3142.6	3097.6	3181.9	3328.1	3378.7	3108.8	2844.6	2788.4	2771.5
67.5°	3232.5	2951.4	2839.0	2765.9	2737.8	2827.7	2867.1	2709.7	2445.5	2366.8	2434.2
70°	2704.1	2625.4	2631.0	2507.3	2439.8	2378.0	2344.3	2203.7	1984.5	1883.3	1855.2
72.5°	2333.0	2299.3	2276.8	2164.4	2102.5	1962.0	1815.8	1675.3	1512.3	1427.9	1433.5
75°	1782.1	1770.9	1782.1	1725.9	1619.1	1506.6	1371.7	1191.8	1068.1	961.3	983.8
77.5°	1062.5	1096.2	1113.1	1090.6	1045.6	944.5	860.1	742.1	624.0	539.7	528.4
80°	730.8	758.9	787.0	758.9	714.0	640.9	550.9	461.0	376.7	331.7	320.4
82.5°	556.6	584.7	601.5	573.4	517.2	438.5	376.7	314.8	247.4	202.4	191.1
85°	202.4	230.5	224.9	269.8	292.3	281.1	241.7	185.5	140.5	101.2	95.6
87.5°	56.2	50.6	56.2	56.2	56.2	50.6	45.0	45.0	45.0	28.1	22.5
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)