

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: P456852

Luminaire Tested: **GALN-SA8A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19930 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

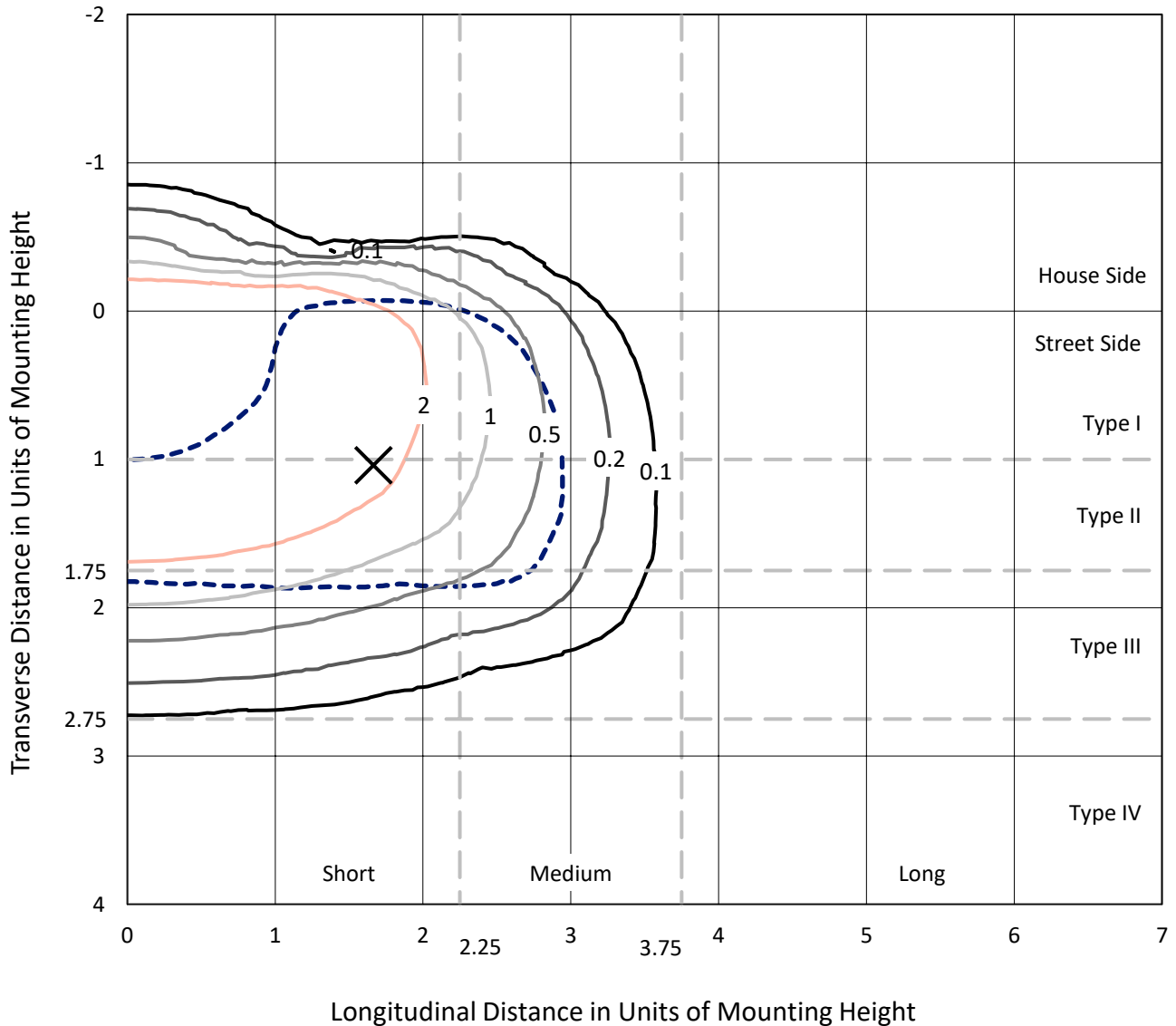
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456852
 CATALOG NUMBER: GALN-SA8A-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

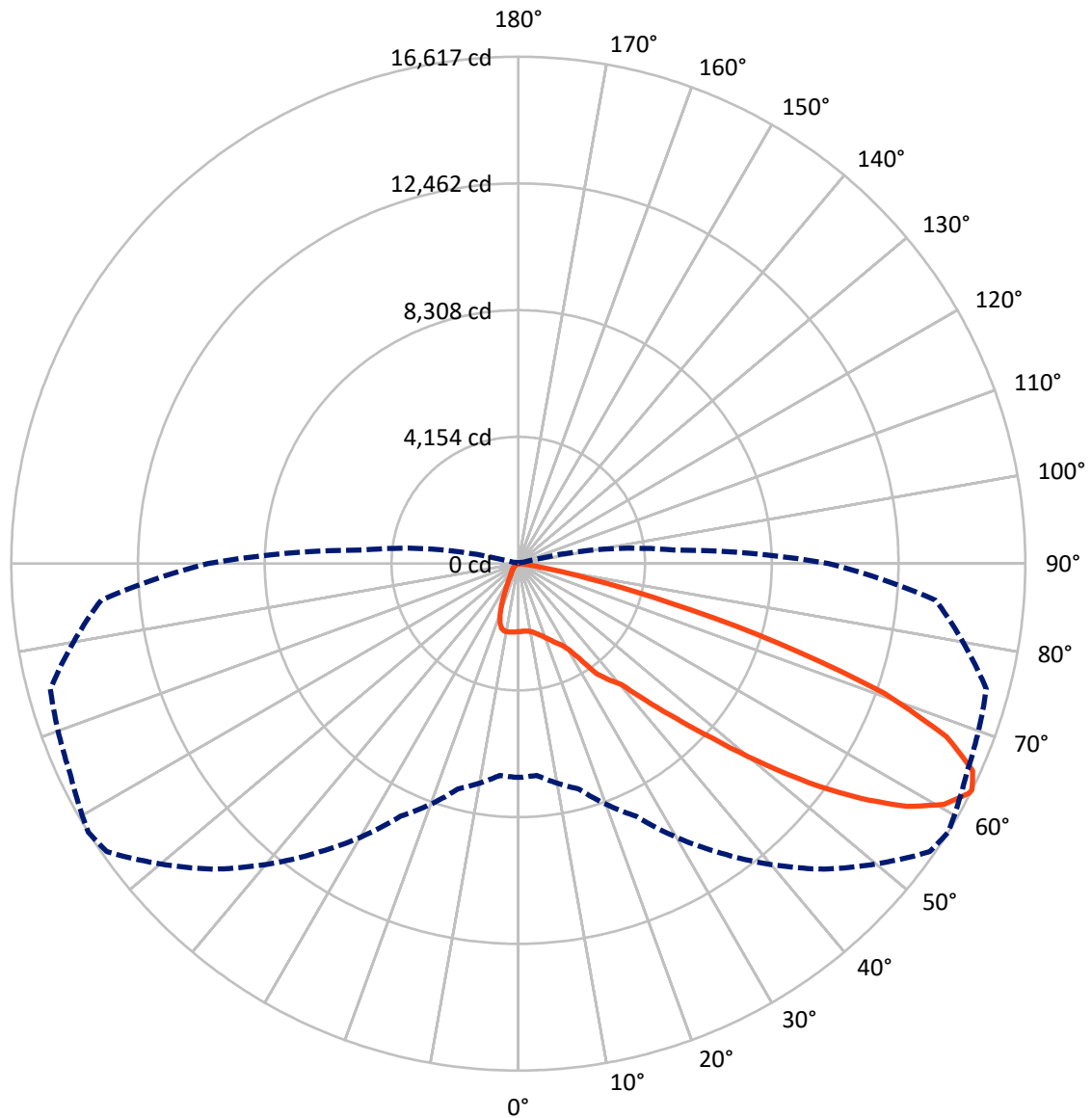
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P456852
CATALOG NUMBER: GALN-SA8A-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P456852

CATALOG NUMBER: GALN-SA8A-827-U-T3-HSS

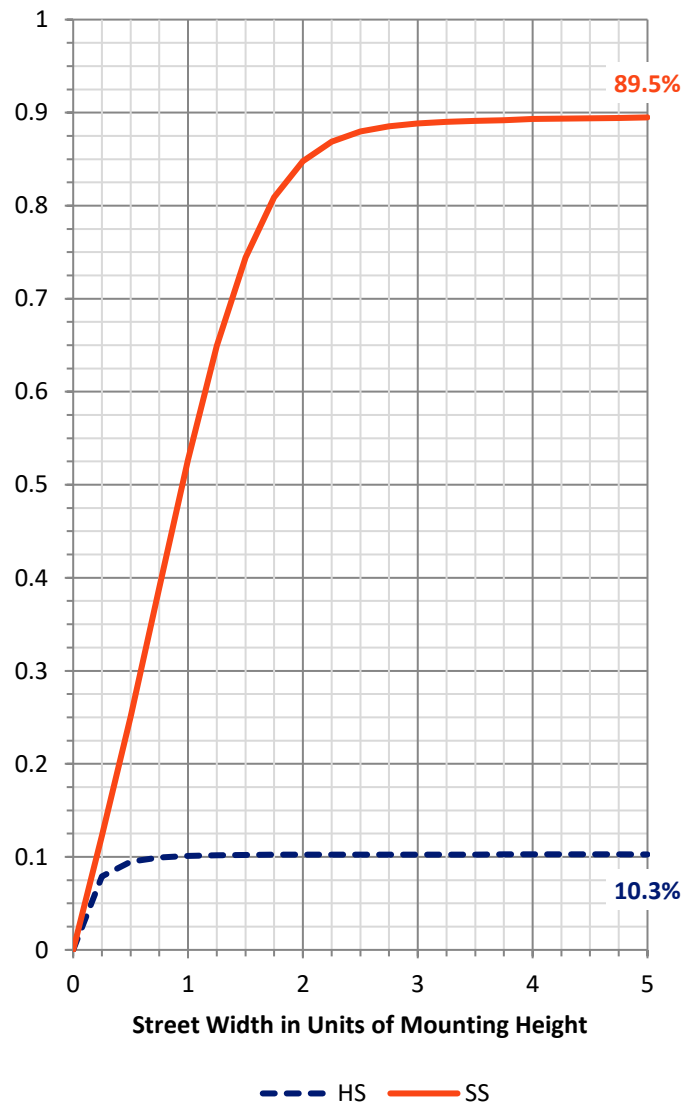
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2063.6	0.0	2063.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17866.4	0.0	17866.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	19930.0	0.0	19930.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	1.0
10°-20°	568.9	2.9
20°-30°	987.3	5.0
30°-40°	1814.4	9.1
40°-50°	3415.5	17.1
50°-60°	5842.0	29.3
60°-70°	5593.7	28.1
70°-80°	1426.4	7.2
80°-90°	72.9	0.4
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°	19930.0	100.0
0°-180°	19930.0	100.0



REPORT NUMBER: P456852

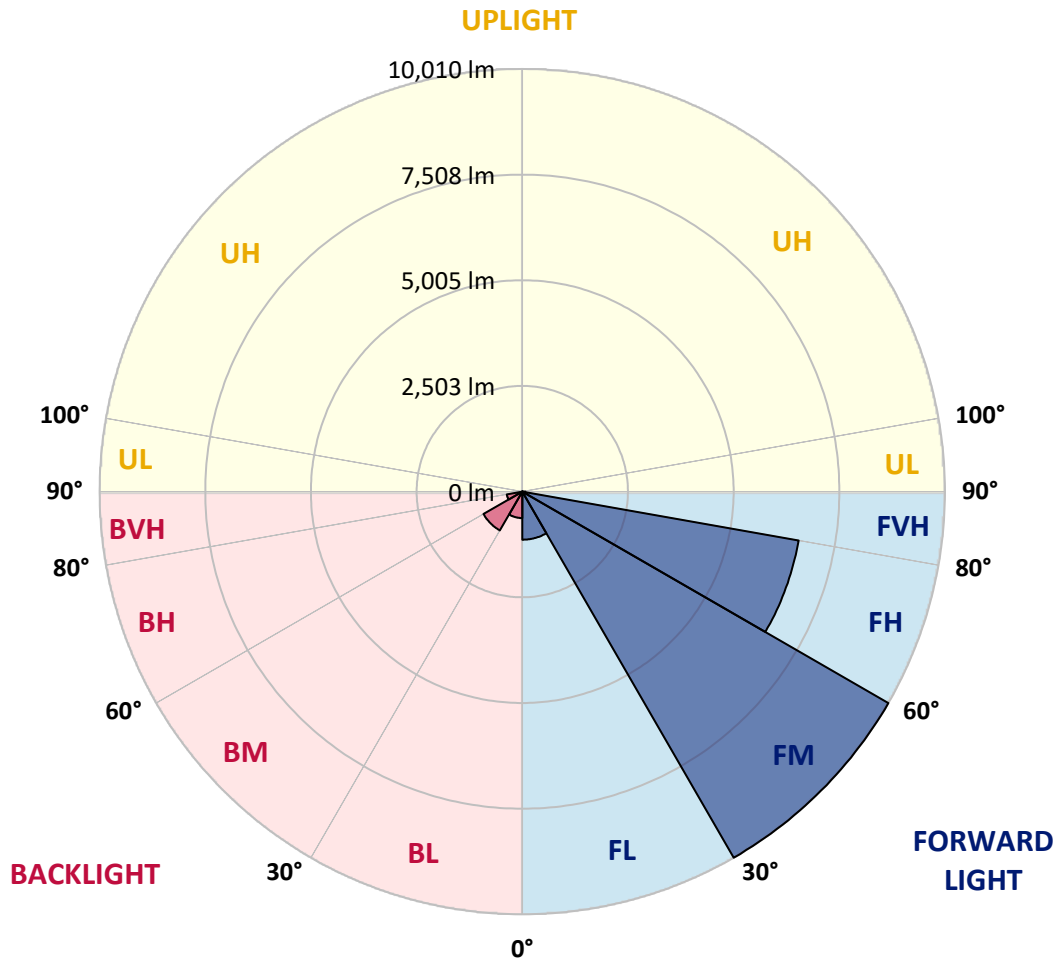
CATALOG NUMBER: GALN-SA8A-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.3	5.7			
FM	(30°-60°)	10010.4	50.2			
FH	(60°-80°)	6646.6	33.3			G3/7500
FVH	(80°-90°)	70.1	0.4			G1/100
BL	(0°-30°)	625.8	3.1	B2/1000		
BM	(30°-60°)	1061.4	5.3	B2/2500		
BH	(60°-80°)	373.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P456852

CATALOG NUMBER: GALN-SA8A-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2
2.5°	2175.7	2183.2	2190.7	2193.7	2204.2	2214.7	2222.2	2220.7	2232.7	2238.7	2238.7
5°	2088.7	2088.7	2108.2	2126.2	2156.2	2186.2	2214.7	2220.7	2243.2	2264.3	2271.8
7.5°	2015.2	2019.7	2034.7	2067.7	2108.2	2160.7	2217.7	2231.2	2270.3	2316.8	2336.3
10°	1980.7	1983.7	2003.2	2037.7	2088.7	2160.7	2240.2	2265.8	2325.8	2399.3	2426.3
12.5°	1973.2	1977.7	1997.2	2036.2	2094.7	2181.7	2289.8	2316.8	2403.8	2498.3	2538.8
15°	1986.7	1989.7	2009.2	2051.2	2115.7	2219.2	2355.8	2393.3	2496.8	2606.4	2658.9
17.5°	2034.7	2031.7	2045.2	2079.7	2151.7	2265.8	2435.3	2480.3	2601.9	2751.9	2786.4
20°	2238.7	2219.2	2207.2	2177.2	2205.7	2331.8	2531.3	2597.4	2747.4	2900.5	2924.5
22.5°	2678.4	2634.9	2549.3	2432.3	2342.3	2421.8	2646.9	2723.4	2917.0	3067.0	3067.0
25°	3238.1	3182.6	3097.0	2841.9	2621.4	2570.4	2777.4	2873.5	3101.5	3253.1	3203.6
27.5°	3938.8	3895.3	3728.7	3431.6	3094.0	2829.9	2929.0	3017.5	3265.1	3448.1	3344.6
30°	4509.0	4488.0	4351.4	4085.9	3713.7	3328.1	3211.1	3269.6	3482.7	3694.2	3587.7
32.5°	4990.7	4990.7	4851.1	4603.5	4255.4	3913.3	3689.7	3731.7	3935.8	4180.4	3982.3
35°	5520.3	5502.3	5389.8	5154.2	4764.1	4462.5	4371.0	4428.0	4612.5	4794.1	4306.4
37.5°	6077.0	6071.0	5954.0	5725.9	5407.8	5028.2	4813.6	4828.6	4923.1	5034.2	4686.1
40°	6681.7	6690.7	6537.7	6396.6	6096.5	5707.9	5296.8	5202.2	5290.8	5604.4	5386.8
42.5°	7396.0	7374.9	7308.9	7116.9	6875.3	6642.7	6149.0	6114.5	6192.6	6528.7	6293.1
45°	8225.7	8255.7	8141.7	8035.2	7873.1	7679.5	7266.9	7206.9	7292.4	7814.6	7480.0
47.5°	9057.0	9028.5	9102.0	9082.5	9169.5	9025.5	8660.9	8537.8	8743.4	9238.6	8746.4
50°	9690.2	9721.7	9874.8	10098.4	10472.0	10553.0	10203.4	10161.4	10252.9	10571.0	9879.3
52.5°	10101.4	10206.4	10446.5	11021.2	11694.9	12218.6	11953.0	11930.5	11892.9	11978.5	10962.6
55°	10369.9	10476.5	10790.1	11636.4	12796.2	13647.0	13660.5	13564.5	13316.9	13255.4	11975.5
57.5°	10204.9	10225.9	10673.0	11804.4	13407.0	14665.9	15107.0	15011.0	14553.3	14320.8	12869.8
60°	9172.5	9216.1	9838.8	11168.2	13141.4	14999.0	16065.8	16022.3	15521.2	15258.6	13566.0
62.5°	7343.4	7469.5	8110.2	9592.7	11906.5	14437.8	16454.5	16577.5	16187.4	15825.8	13785.1
63°	7007.3	6966.8	7643.5	9133.5	11579.3	14160.2	16460.5	16616.5	16217.4	15879.8	13725.1
65°	5187.2	5308.8	5748.4	7202.4	9636.2	12868.3	16089.8	16365.9	16106.3	15641.2	13060.3
67.5°	2912.5	2906.5	3392.6	4713.1	6744.7	10093.9	14548.8	15132.5	15078.5	14035.7	10826.1
70°	1425.5	1448.0	1647.5	2442.8	3911.8	6963.8	12089.5	12719.7	12739.2	11024.2	7486.0
72.5°	645.2	655.7	798.3	1189.9	2010.7	3707.7	8330.8	8932.5	8821.4	7025.3	4133.9
75°	340.6	363.1	439.6	598.7	969.3	1529.0	4531.5	5113.7	4881.1	3209.6	1521.5
77.5°	252.1	259.6	298.6	381.1	519.2	595.7	1955.1	2325.8	2178.7	1161.4	504.2
80°	184.6	190.6	222.1	270.1	327.1	303.1	736.7	844.8	757.8	394.6	154.6
82.5°	112.5	114.0	162.1	201.1	205.6	169.6	243.1	261.1	273.1	222.1	84.0
85°	40.5	51.0	109.5	145.5	121.5	85.5	102.0	112.5	123.0	141.0	49.5
87.5°	4.5	6.0	52.5	70.5	34.5	31.5	37.5	42.0	45.0	52.5	24.0
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: P456852

CATALOG NUMBER: GALN-SA8A-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2
2.5°	2244.7	2250.7	2246.2	2238.7	2237.2	2232.7	2223.7	2223.7	2223.7	2226.7	2223.7
5°	2277.8	2282.3	2271.8	2256.7	2240.2	2219.2	2196.7	2183.2	2181.7	2178.7	2171.2
7.5°	2340.8	2346.8	2322.8	2286.8	2241.7	2190.7	2142.7	2097.7	2076.7	2060.2	2060.2
10°	2432.3	2438.3	2390.3	2325.8	2235.7	2132.2	2018.2	1914.6	1833.6	1796.1	1787.1
12.5°	2541.8	2544.8	2465.3	2352.8	2204.2	2004.7	1761.6	1535.0	1377.5	1305.4	1297.9
15°	2661.9	2640.9	2535.8	2363.3	2114.2	1742.1	1321.9	1044.3	880.8	832.8	850.8
17.5°	2783.4	2744.4	2589.9	2346.8	1911.6	1321.9	888.3	712.7	661.7	648.2	648.2
20°	2897.5	2843.4	2628.9	2274.8	1560.5	910.8	658.7	616.7	607.7	598.7	600.2
22.5°	3011.5	2929.0	2663.4	2114.2	1162.9	651.2	589.7	576.2	564.2	552.2	550.7
25°	3122.5	3008.5	2676.9	1817.1	792.3	559.7	538.7	520.7	496.7	483.2	480.2
27.5°	3238.1	3104.5	2667.9	1442.0	577.7	501.2	480.2	454.7	426.1	402.1	402.1
30°	3460.1	3287.6	2636.4	1036.8	486.2	441.1	414.1	373.6	342.1	318.1	316.6
32.5°	3763.2	3526.2	2528.3	729.2	432.1	388.6	348.1	303.1	270.1	252.1	252.1
35°	4033.3	3766.3	2325.8	537.2	388.6	337.6	288.1	244.6	219.1	207.1	202.6
37.5°	4444.5	4117.4	2046.7	436.6	346.6	292.6	241.6	201.1	180.1	171.1	171.1
40°	5061.2	4546.5	1704.6	382.6	306.1	249.1	201.1	169.6	153.1	142.5	142.5
42.5°	5826.4	5071.7	1358.0	343.6	268.6	214.6	168.1	144.0	129.0	121.5	120.0
45°	6789.8	5625.4	1045.8	307.6	238.6	183.1	142.5	121.5	106.5	102.0	103.5
47.5°	7795.1	6113.0	810.3	276.1	207.1	154.6	121.5	105.0	94.5	88.5	88.5
50°	8653.4	6449.1	615.2	240.1	183.1	130.5	106.5	94.5	85.5	82.5	81.0
52.5°	9370.6	6546.7	471.2	208.6	160.6	112.5	94.5	85.5	78.0	73.5	73.5
55°	9981.3	6461.1	369.1	175.6	135.0	97.5	84.0	76.5	67.5	63.0	61.5
57.5°	10338.4	6186.6	282.1	145.5	109.5	81.0	73.5	64.5	54.0	46.5	46.5
60°	10518.5	5787.4	216.1	120.0	84.0	64.5	60.0	48.0	37.5	31.5	30.0
62.5°	10302.4	5257.7	163.6	94.5	63.0	48.0	40.5	34.5	24.0	18.0	18.0
63°	10168.9	5104.7	157.6	90.0	58.5	45.0	37.5	31.5	21.0	16.5	15.0
65°	9270.1	4437.0	129.0	72.0	46.5	31.5	25.5	22.5	15.0	7.5	6.0
67.5°	7361.4	3394.1	102.0	54.0	33.0	22.5	15.0	13.5	4.5	0.0	0.0
70°	4977.2	2192.2	79.5	39.0	22.5	13.5	7.5	6.0	1.5	0.0	0.0
72.5°	2595.9	1123.9	61.5	28.5	13.5	9.0	4.5	1.5	0.0	0.0	0.0
75°	918.3	382.6	45.0	18.0	9.0	4.5	1.5	0.0	0.0	0.0	0.0
77.5°	277.6	142.5	28.5	13.5	6.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	97.5	52.5	16.5	9.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	48.0	25.5	10.5	7.5	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	27.0	16.5	9.0	7.5	4.5	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.5	12.0	9.0	7.5	6.0	3.0	1.5	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)