

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: P532789

Luminaire Tested: **GALN-SA8A-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17310 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 244
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

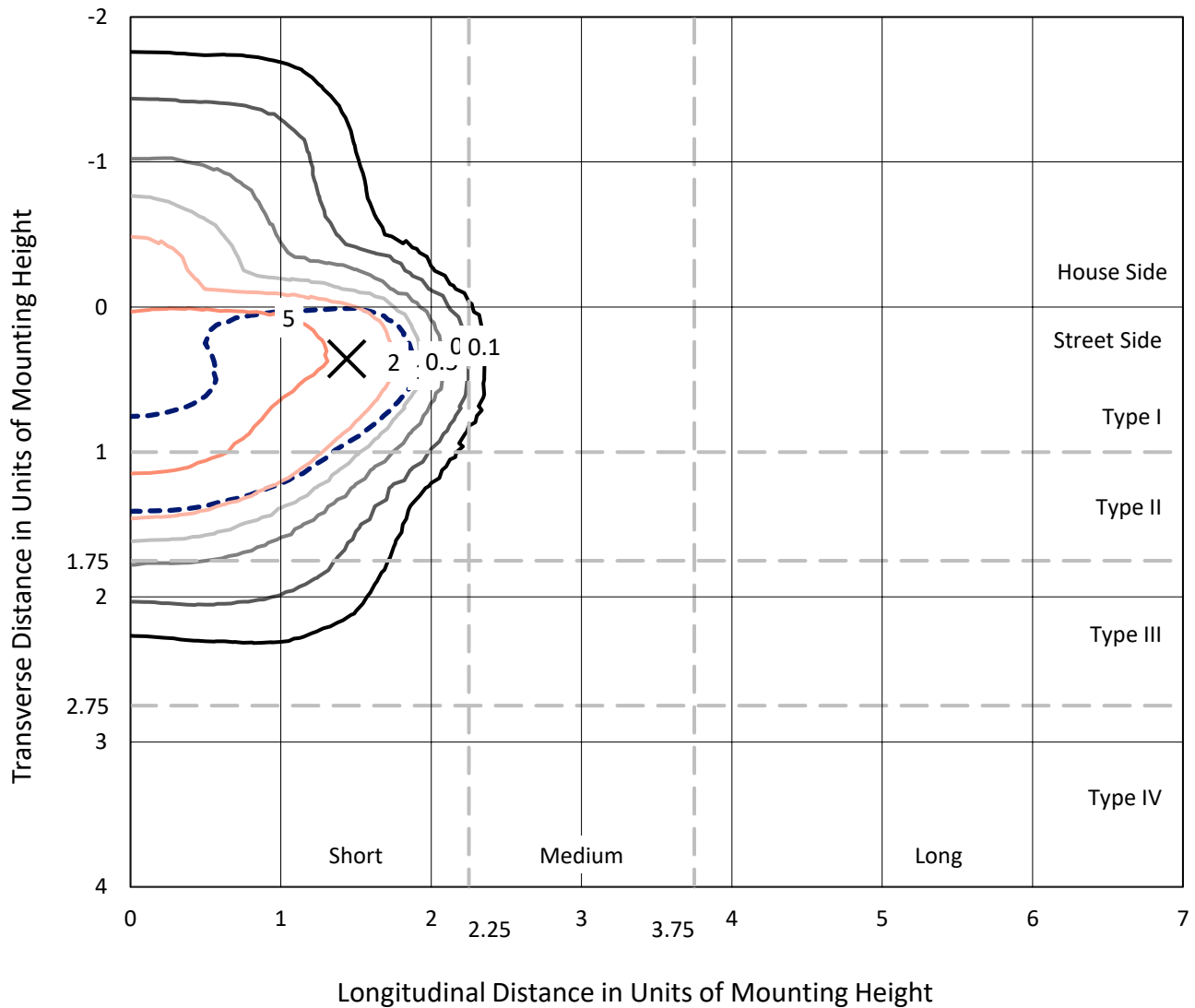


REPORT NUMBER: P532789

CATALOG NUMBER: GALN-SA8A-830-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

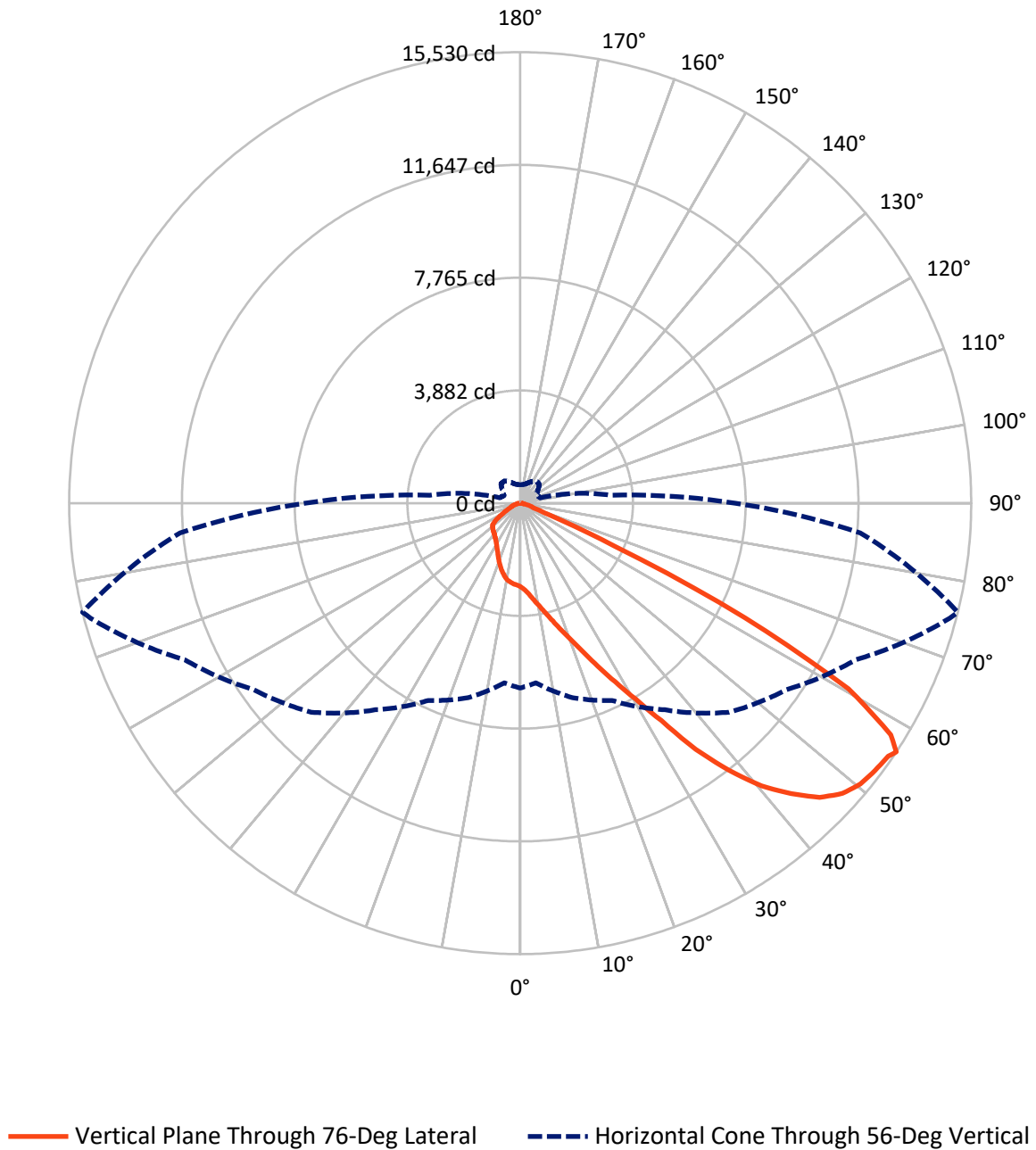
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Short - N/A

REPORT NUMBER: P532789
CATALOG NUMBER: GALN-SA8A-830-U-T2-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P532789

CATALOG NUMBER: GALN-SA8A-830-U-T2-GRSBK

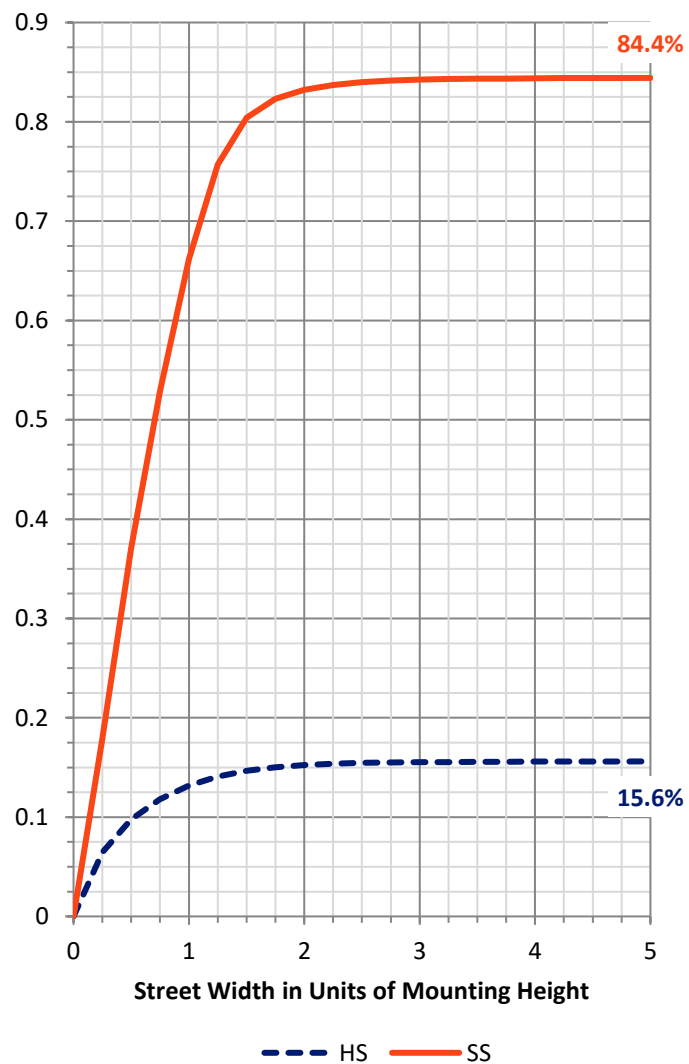
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2719.3	0.0	2719.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14590.7	0.0	14590.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	17310.0	0.0	17310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	1.7
10°-20°	932.5	5.4
20°-30°	1690.8	9.8
30°-40°	2915.9	16.8
40°-50°	4736.9	27.4
50°-60°	4992.9	28.8
60°-70°	1525.5	8.8
70°-80°	195.6	1.1
80°-90°	29.7	0.2
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°	17310.0	100.0
0°-180°	17310.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532789

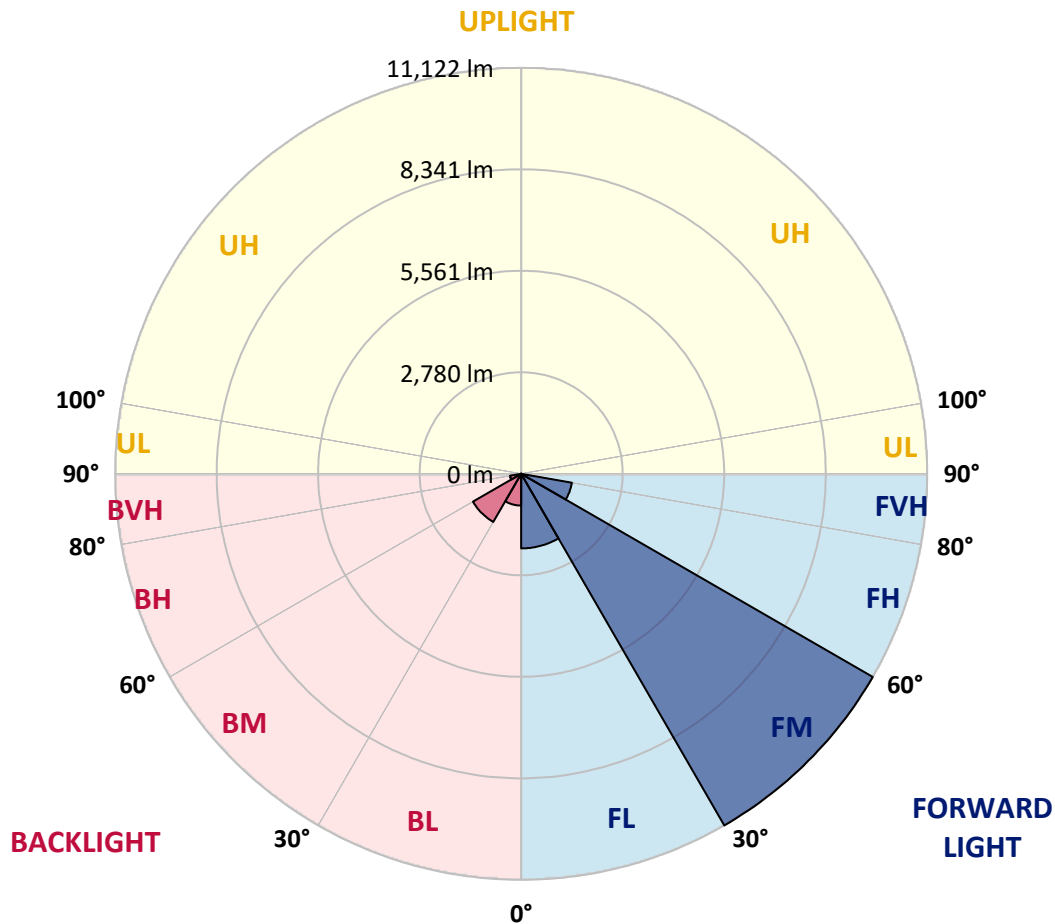
CATALOG NUMBER: GALN-SA8A-830-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2043.6	11.8			
FM	(30°-60°)	11121.7	64.2			
FH	(60°-80°)	1410.9	8.2			G1/1800
FVH	(80°-90°)	14.6	0.1			G1/100
BL	(0°-30°)	869.9	5.0	B2/1000		
BM	(30°-60°)	1524.0	8.8	B2/2500		
BH	(60°-80°)	310.2	1.8	B1/500		G1/500
BVH	(80°-90°)	15.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P532789

CATALOG NUMBER: GALN-SA8A-830-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3
2.5°	3318.4	3241.8	3245.0	3238.6	3229.1	3194.0	3088.7	3072.7	3002.5	2983.4	2919.6
5°	3717.3	3650.3	3688.5	3631.1	3576.9	3545.0	3372.7	3292.9	3181.2	3139.7	3050.4
7.5°	3966.1	3934.2	3921.5	3924.7	3873.6	3793.8	3717.3	3541.8	3391.8	3359.9	3171.6
10°	4087.4	4068.2	4087.4	4077.8	4100.2	4109.7	3975.7	3870.4	3650.3	3596.0	3302.5
12.5°	4116.1	4154.4	4170.4	4211.8	4266.1	4358.6	4349.0	4205.4	3911.9	3876.8	3503.5
15°	4186.3	4218.2	4202.3	4269.3	4371.4	4527.7	4610.7	4588.3	4272.5	4208.6	3736.4
17.5°	4250.1	4192.7	4246.9	4380.9	4483.0	4722.4	4923.4	5015.9	4664.9	4591.5	3950.2
20°	4336.3	4320.3	4310.7	4377.8	4559.6	4878.7	5277.6	5446.7	5105.3	5028.7	4256.5
22.5°	4597.9	4601.1	4594.7	4495.8	4626.6	4987.2	5587.1	6005.1	5631.7	5567.9	4604.3
25°	4942.5	4901.0	4869.1	4789.4	4773.4	5086.1	5899.8	6687.9	6263.5	6218.8	4980.8
27.5°	5306.3	5306.3	5210.5	5137.2	5035.1	5331.8	6186.9	7351.6	7026.1	6965.5	5309.5
30°	5701.9	5724.3	5711.5	5555.2	5491.3	5599.8	6480.5	8200.3	7900.4	7823.8	5851.9
32.5°	6285.8	6238.0	6292.2	6161.4	5973.1	6068.9	6943.1	8959.7	9036.3	8927.8	6563.4
35°	7058.0	7029.3	6994.2	6780.4	6557.1	6633.6	7597.3	9894.6	10462.6	10408.3	7281.4
37.5°	7750.4	7734.5	7705.7	7559.0	7300.5	7393.0	8340.7	10867.8	11853.8	11675.1	8296.0
40°	8477.9	8564.1	8471.5	8340.7	8104.6	8308.8	9215.0	11445.3	13024.8	12807.8	9071.4
42.5°	9463.9	9396.9	9438.3	9199.0	9071.4	9294.7	10092.4	12022.9	13934.1	13675.7	9894.6
45°	10513.6	10516.8	10405.1	10328.6	9996.7	10239.2	10631.7	12341.9	14658.4	14457.4	10516.8
47.5°	11186.9	11183.7	11304.9	11426.2	11084.8	10845.5	10998.6	12645.1	15031.8	14939.2	10743.4
50°	11081.6	11113.5	11269.8	11722.9	11901.6	11579.3	11343.2	12555.7	15200.9	15191.3	10938.0
52.5°	9639.4	9744.6	10006.3	10660.4	11560.2	11959.0	11703.8	12721.6	15283.8	15299.8	11228.4
55°	7338.8	7396.2	7894.0	8688.5	9684.0	11049.7	11560.2	12852.5	15347.7	15376.4	11579.3
56°	6365.6	6212.5	6930.4	7495.1	8685.3	10178.6	11196.5	12750.4	15309.4	15529.5	11754.8
57.5°	4805.3	4703.2	5283.9	5989.1	7134.6	8710.8	10066.9	12268.6	15050.9	15047.7	11502.8
60°	2922.8	2820.7	3267.4	3682.2	4323.5	5363.7	6802.7	9770.2	12724.8	12992.9	9313.9
62.5°	1739.0	1802.8	2243.1	2495.2	2702.6	2811.1	3519.4	5807.2	8490.7	8682.1	5778.5
65°	1158.3	1180.6	1512.4	1927.2	2019.8	1608.2	1432.7	2351.6	3682.2	3564.1	2383.5
67.5°	714.7	765.8	1014.7	1448.6	1605.0	1174.2	679.6	877.5	1014.7	1014.7	689.2
70°	433.9	459.5	676.4	986.0	1100.8	756.2	494.6	494.6	488.2	478.6	411.6
72.5°	207.4	223.4	344.6	507.3	516.9	398.8	382.9	418.0	408.4	405.2	341.4
75°	89.3	95.7	121.2	159.5	181.9	169.1	232.9	299.9	309.5	299.9	245.7
77.5°	28.7	31.9	44.7	57.4	60.6	73.4	98.9	124.4	143.6	134.0	121.2
80°	3.2	6.4	12.8	28.7	44.7	57.4	73.4	83.0	92.5	92.5	86.2
82.5°	3.2	3.2	12.8	25.5	41.5	54.2	70.2	79.8	92.5	95.7	89.3
85°	0.0	3.2	9.6	22.3	35.1	35.1	31.9	31.9	22.3	22.3	22.3
87.5°	0.0	0.0	3.2	3.2	3.2	6.4	6.4	6.4	6.4	6.4	6.4
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: P532789

CATALOG NUMBER: GALN-SA8A-830-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3	2881.3
2.5°	2906.8	2900.4	2814.3	2760.0	2731.3	2673.9	2638.8	2613.2	2594.1	2571.8	2575.0
5°	2945.1	2922.8	2779.2	2680.3	2562.2	2498.4	2444.1	2399.5	2370.8	2364.4	2351.6
7.5°	3053.6	2935.5	2718.5	2539.9	2389.9	2326.1	2278.2	2249.5	2262.3	2233.5	2255.9
10°	3136.5	2961.0	2645.2	2386.7	2236.7	2188.9	2163.3	2185.7	2217.6	2204.8	2188.9
12.5°	3238.6	2986.6	2527.1	2239.9	2099.5	2064.4	2109.1	2150.6	2214.4	2239.9	2208.0
15°	3353.5	3015.3	2377.1	2070.8	1981.5	2010.2	2086.8	2160.2	2224.0	2255.9	2275.0
17.5°	3493.9	3005.7	2230.4	1936.8	1869.8	1952.8	2045.3	2112.3	2208.0	2255.9	2243.1
20°	3624.7	2973.8	2067.6	1802.8	1806.0	1882.6	1959.1	2067.6	2118.7	2182.5	2160.2
22.5°	3749.2	2916.4	1898.5	1710.3	1710.3	1828.3	1866.6	1936.8	1981.5	2013.4	2010.2
25°	3924.7	2807.9	1758.1	1620.9	1659.2	1735.8	1767.7	1790.0	1770.9	1796.4	1799.6
27.5°	4049.1	2696.2	1643.3	1541.1	1611.3	1668.8	1659.2	1646.4	1601.8	1566.7	1589.0
30°	4183.1	2565.4	1544.3	1486.9	1525.2	1576.2	1538.0	1499.7	1429.5	1372.0	1375.2
32.5°	4374.6	2504.8	1458.2	1423.1	1474.1	1480.5	1439.0	1381.6	1311.4	1257.2	1254.0
35°	4731.9	2466.5	1384.8	1381.6	1391.2	1394.4	1352.9	1282.7	1254.0	1209.3	1225.3
37.5°	5089.3	2447.3	1333.7	1321.0	1317.8	1321.0	1273.1	1206.1	1260.4	1257.2	1263.5
40°	5545.6	2533.5	1260.4	1244.4	1247.6	1247.6	1187.0	1167.8	1263.5	1273.1	1276.3
42.5°	6008.2	2642.0	1212.5	1161.4	1174.2	1174.2	1142.3	1120.0	1187.0	1123.2	1113.6
45°	6410.3	2801.5	1161.4	1078.5	1110.4	1126.3	1116.8	1078.5	1037.0	928.5	928.5
47.5°	6541.1	2941.9	1100.8	998.7	1024.2	1094.4	1065.7	986.0	912.6	823.2	816.8
50°	6770.8	3095.1	1053.0	906.2	960.4	1046.6	1017.9	938.1	855.1	791.3	794.5
52.5°	7007.0	3270.6	963.6	797.7	864.7	1008.3	1008.3	918.9	791.3	746.6	740.3
55°	7361.1	3264.2	804.1	654.1	772.2	950.9	966.8	823.2	708.4	673.3	673.3
56°	7412.2	3117.4	724.3	612.6	730.7	934.9	938.1	797.7	676.4	638.2	638.2
57.5°	7029.3	2814.3	635.0	561.6	679.6	906.2	909.4	775.4	650.9	596.7	590.3
60°	5408.4	1904.9	529.7	501.0	615.8	816.8	832.8	705.2	571.1	529.7	526.5
62.5°	3053.6	1056.1	465.9	453.1	529.7	695.6	743.5	615.8	485.0	462.7	469.0
65°	1394.4	580.7	392.5	366.9	427.6	536.1	599.9	507.3	398.8	373.3	373.3
67.5°	510.5	395.7	335.0	290.4	299.9	347.8	389.3	328.7	264.8	226.5	236.1
70°	363.7	331.8	293.6	252.1	232.9	226.5	223.4	185.1	130.8	102.1	108.5
72.5°	293.6	274.4	245.7	213.8	181.9	153.2	130.8	95.7	60.6	41.5	38.3
75°	210.6	201.0	178.7	153.2	127.6	108.5	89.3	60.6	31.9	16.0	16.0
77.5°	108.5	108.5	105.3	95.7	79.8	63.8	51.1	35.1	19.1	6.4	6.4
80°	83.0	89.3	92.5	83.0	73.4	57.4	41.5	25.5	12.8	3.2	3.2
82.5°	79.8	92.5	98.9	86.2	73.4	54.2	41.5	25.5	12.8	3.2	3.2
85°	19.1	19.1	28.7	31.9	41.5	44.7	35.1	22.3	9.6	3.2	3.2
87.5°	6.4	6.4	6.4	6.4	6.4	6.4	3.2	3.2	3.2	3.2	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)