

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: P456703

Luminaire Tested: **GALN-SA8A-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23087 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

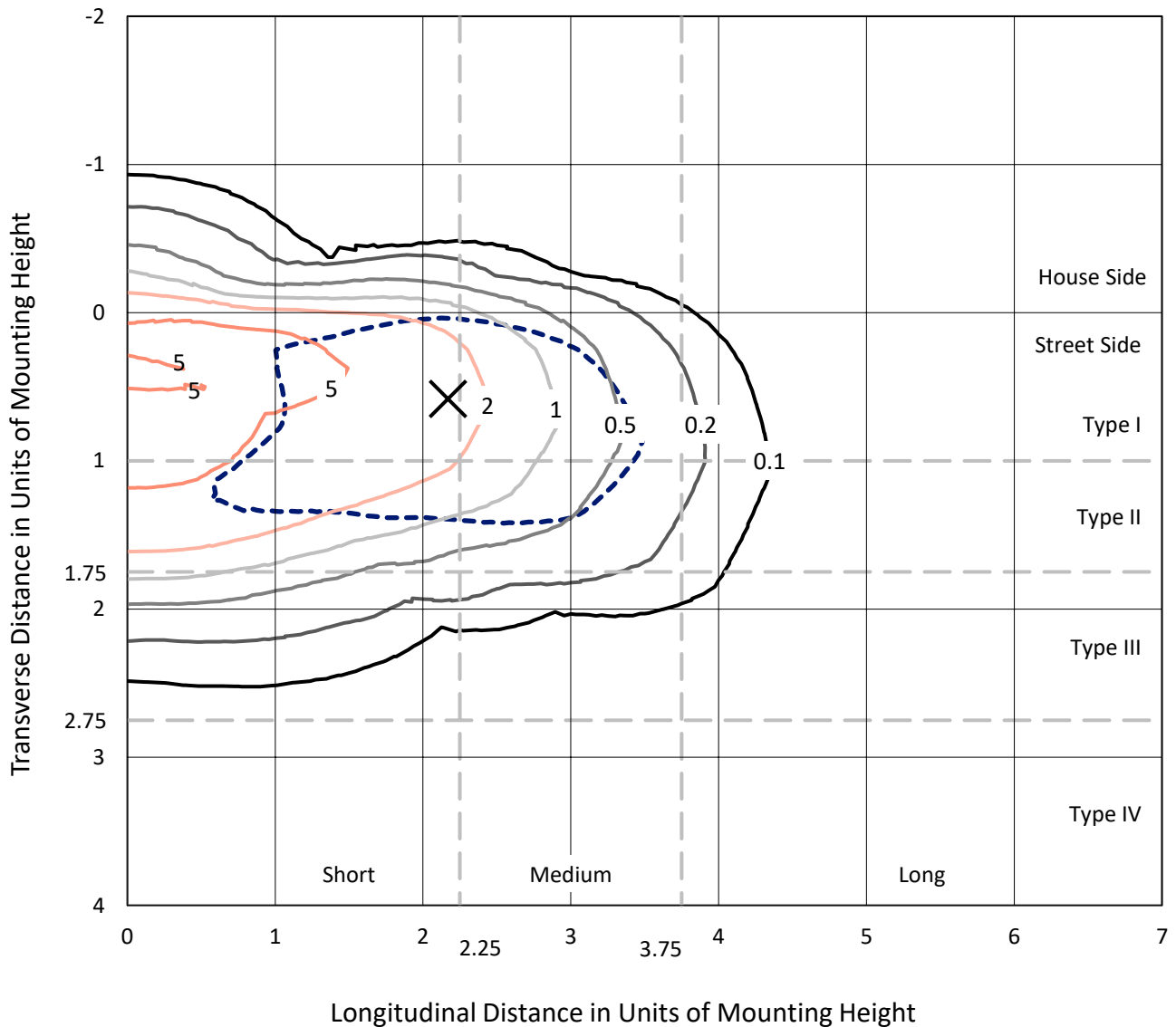
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456703
 CATALOG NUMBER: GALN-SA8A-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

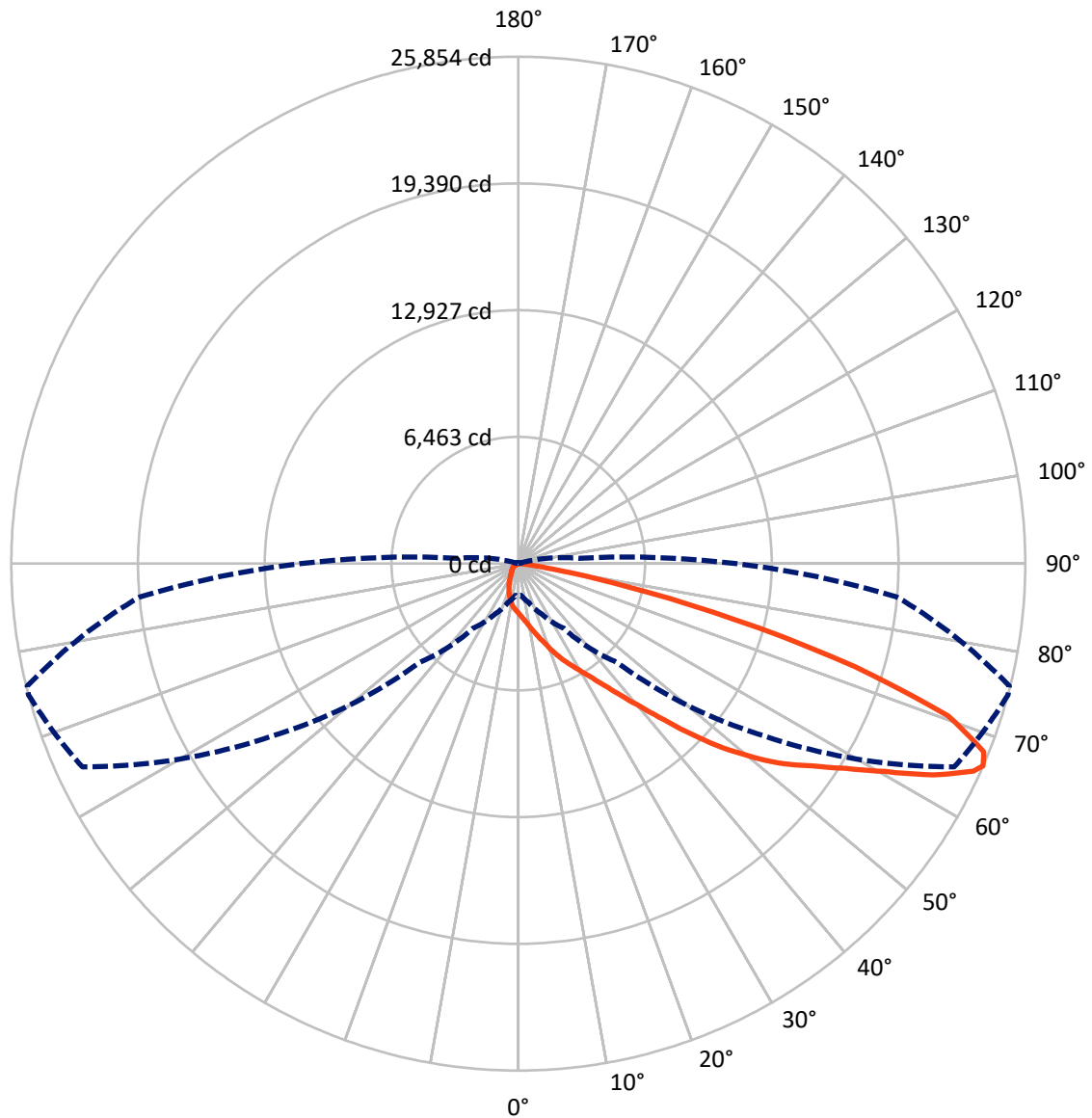
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

REPORT NUMBER: P456703
CATALOG NUMBER: GALN-SA8A-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P456703

CATALOG NUMBER: GALN-SA8A-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.3	0.0	1425.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	21661.7	0.0	21661.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	23087.0	0.0	23087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	1.1
10°-20°	716.7	3.1
20°-30°	1237.6	5.4
30°-40°	2232.3	9.7
40°-50°	4032.7	17.5
50°-60°	6287.1	27.2
60°-70°	5972.5	25.9
70°-80°	2238.3	9.7
80°-90°	126.3	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°	23087.0	100.0
0°-180°	23087.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456703

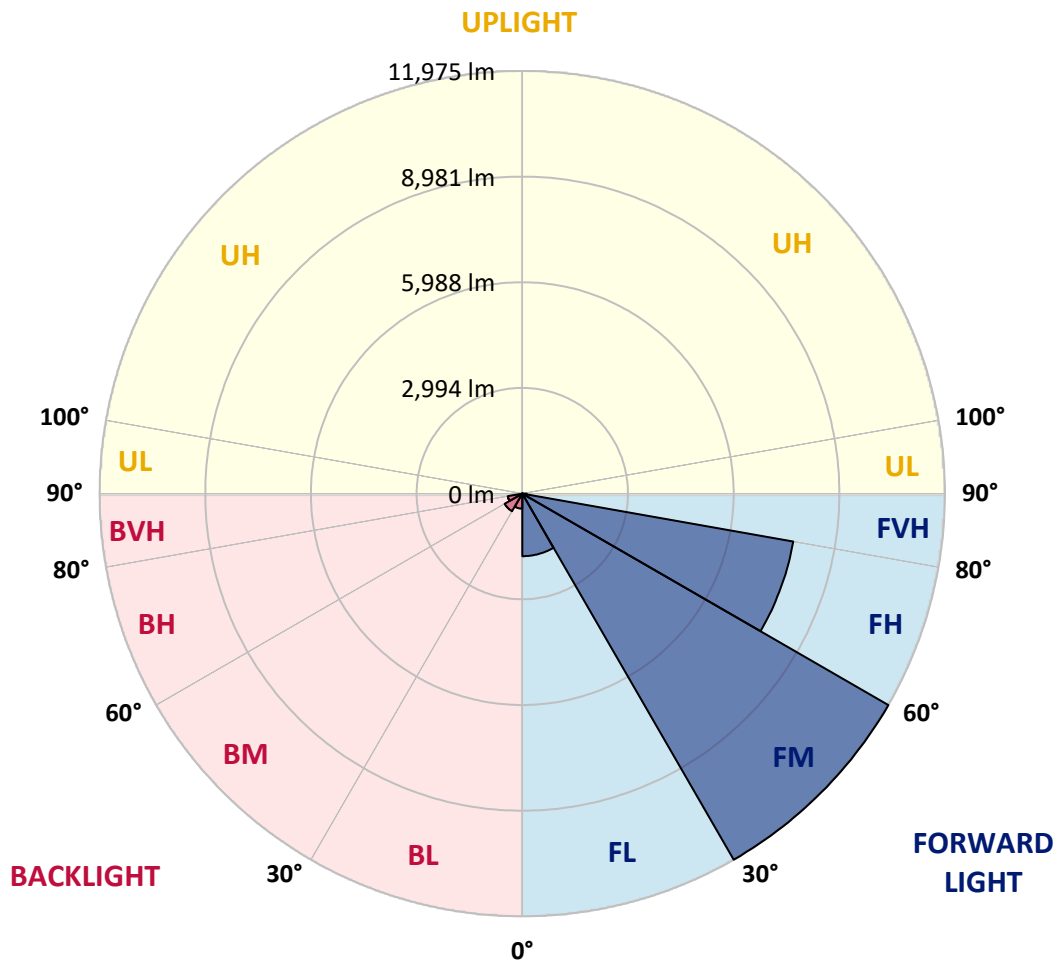
CATALOG NUMBER: GALN-SA8A-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.1	7.7			
FM (30°-60°)	11975.2	51.9			
FH (60°-80°)	7794.6	33.8			G4/12000
FVH (80°-90°)	119.8	0.5			G2/225
BL (0°-30°)	425.7	1.8	B1/500		
BM (30°-60°)	576.9	2.5	B1/1000		
BH (60°-80°)	416.2	1.8	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





REPORT NUMBER: P456703

CATALOG NUMBER: GALN-SA8A-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	3016.4	2978.9	2990.8	2973.8	2934.5	2876.5	2825.2	2751.8	2678.4	2666.5	2584.5
5°	3414.2	3403.9	3390.3	3340.8	3313.5	3224.7	3118.9	2992.5	2840.6	2813.3	2664.8
7.5°	3685.6	3680.5	3687.3	3661.7	3637.8	3557.6	3444.9	3272.5	3036.9	3021.6	2774.0
10°	3774.4	3788.0	3813.6	3854.6	3892.2	3866.6	3781.2	3566.1	3291.3	3246.9	2898.6
12.5°	3723.2	3738.5	3800.0	3909.2	4030.4	4100.4	4066.3	3909.2	3561.0	3525.1	3038.6
15°	3591.7	3610.5	3697.6	3866.6	4083.4	4281.4	4366.7	4254.1	3875.1	3817.1	3207.6
17.5°	3397.1	3424.4	3549.0	3772.7	4069.7	4411.1	4651.8	4614.3	4209.7	4155.1	3392.0
20°	3250.3	3270.8	3376.6	3632.7	4011.7	4482.8	4923.3	5029.1	4622.8	4528.9	3608.8
22.5°	3347.6	3354.4	3390.3	3543.9	3907.5	4501.6	5162.3	5461.0	5061.5	4977.9	3834.1
25°	3823.9	3755.6	3719.8	3685.6	3885.3	4484.5	5379.1	5911.7	5498.5	5409.8	4057.8
27.5°	4575.0	4544.3	4363.3	4120.9	4074.8	4506.7	5522.4	6338.4	5910.0	5814.4	4276.3
30°	5392.7	5339.8	5228.8	4873.8	4517.0	4663.8	5626.6	6753.3	6396.5	6270.2	4476.0
32.5°	6143.8	6178.0	6012.4	5647.1	5233.9	4998.4	5761.4	7205.6	6954.7	6797.6	4708.2
35°	7019.6	7087.9	6833.5	6483.5	6000.4	5602.7	6024.3	7716.1	7663.1	7465.1	5066.7
37.5°	7909.0	7949.9	7794.6	7302.9	6867.6	6370.9	6519.4	8346.0	8535.5	8366.5	5495.1
40°	8656.7	8713.0	8598.6	8161.6	7697.3	7260.3	7238.1	9032.2	9573.4	9399.3	6133.6
42.5°	9228.5	9271.2	9274.6	8965.7	8547.4	8349.4	8154.8	9908.0	10874.2	10672.8	6874.5
45°	9950.6	10012.1	9976.3	9766.3	9453.9	9418.0	9317.3	10966.4	12431.1	12176.7	7835.6
47.5°	11067.1	11108.1	11019.3	10771.8	10454.2	10510.6	10450.8	12152.8	14018.7	13800.1	8830.8
50°	11842.1	11910.4	12036.7	12135.7	11905.3	11697.0	11519.5	13260.7	15526.0	15329.7	9848.2
52.5°	11833.6	11946.2	12345.7	12844.2	13347.8	13284.6	12774.2	14484.7	16965.1	16722.7	10804.2
55°	11036.4	11254.9	11842.1	12726.4	14121.1	14815.9	14583.7	15901.6	18207.9	18044.0	11912.1
57.5°	9390.7	9523.9	10339.9	11575.8	13689.2	15536.3	16680.0	17822.1	19698.2	19621.3	13632.9
60°	6316.2	6376.0	7425.9	8953.7	11654.3	14817.6	18216.4	20145.4	21533.3	21495.7	15642.1
62.5°	3619.0	3644.6	4406.0	5694.9	8293.1	12557.4	18346.1	23011.6	23733.7	23754.2	17967.2
65°	1947.8	1961.5	2576.0	3342.5	5046.2	8950.3	16497.4	24582.2	25512.5	25551.8	19407.9
66°	1681.5	1616.6	2050.2	2849.1	4015.1	7123.7	15328.0	24525.8	25853.9	25811.3	19356.7
67.5°	1278.6	1336.7	1637.1	2190.2	2975.5	5064.9	12654.7	23435.0	25594.5	25461.3	18569.8
70°	915.0	938.9	1165.9	1562.0	2026.3	2779.1	8086.5	19464.3	23262.6	23083.3	16178.1
72.5°	590.7	616.3	826.2	1130.1	1464.7	1517.6	4527.2	14063.0	17934.7	17909.1	12183.5
75°	421.7	445.6	546.3	809.2	1101.1	938.9	2180.0	9477.8	11401.7	11324.9	7536.8
77.5°	305.6	317.5	365.3	529.2	787.0	672.6	1010.6	5061.5	5676.1	5944.1	3330.5
80°	175.8	186.1	254.4	322.6	532.6	459.2	483.1	2031.4	2094.6	1993.9	1041.3
82.5°	87.1	99.0	151.9	220.2	332.9	309.0	221.9	611.1	645.3	628.2	262.9
85°	20.5	25.6	85.4	145.1	162.2	138.3	107.5	179.2	221.9	216.8	100.7
87.5°	1.7	3.4	30.7	25.6	27.3	46.1	37.6	46.1	71.7	66.6	35.8
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: P456703
 CATALOG NUMBER: GALN-SA8A-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8	2524.8
2.5°	2547.0	2514.5	2420.7	2328.5	2251.7	2171.4	2098.0	2055.3	2038.3	2019.5	2028.0
5°	2582.8	2504.3	2314.8	2150.9	1990.5	1853.9	1744.6	1674.7	1640.5	1635.4	1626.9
7.5°	2630.6	2495.8	2202.2	1946.1	1736.1	1584.2	1459.6	1358.8	1328.1	1300.8	1278.6
10°	2688.7	2480.4	2062.2	1731.0	1507.4	1316.2	1152.3	1032.8	971.3	954.3	966.2
12.5°	2750.1	2451.4	1915.4	1533.0	1275.2	1031.1	879.2	819.4	802.3	795.5	797.2
15°	2811.6	2415.5	1761.7	1341.8	1015.7	822.8	752.8	737.5	730.6	727.2	723.8
17.5°	2867.9	2357.5	1589.3	1155.7	822.8	703.3	677.7	664.1	650.4	645.3	636.7
20°	2934.5	2290.9	1434.0	947.4	696.5	636.7	606.0	580.4	559.9	546.3	544.6
22.5°	2997.7	2205.6	1271.8	785.3	635.0	571.9	522.4	495.1	471.2	454.1	459.2
25°	3031.8	2101.4	1126.7	684.5	578.7	507.0	452.4	418.2	392.6	384.1	382.4
27.5°	3031.8	1973.4	985.0	626.5	527.5	449.0	392.6	360.2	343.1	331.2	332.9
30°	3007.9	1831.7	853.5	582.1	483.1	397.8	344.8	315.8	302.2	293.6	291.9
32.5°	2989.1	1696.9	740.9	539.4	437.0	353.4	307.3	285.1	271.4	262.9	262.9
35°	3018.1	1580.8	653.8	496.8	394.3	319.2	278.3	257.8	244.1	237.3	235.6
37.5°	3095.0	1474.9	587.2	450.7	355.1	290.2	257.8	233.9	220.2	211.7	208.3
40°	3284.4	1415.2	537.7	408.0	317.5	266.3	233.9	211.7	194.6	186.1	184.4
42.5°	3588.3	1416.9	489.9	368.7	288.5	245.8	213.4	187.8	169.0	160.5	158.8
45°	4045.8	1481.8	452.4	331.2	262.9	223.6	191.2	163.9	146.8	138.3	138.3
47.5°	4593.8	1608.1	419.9	298.7	239.0	203.1	169.0	141.7	124.6	117.8	117.8
50°	5187.9	1772.0	387.5	264.6	218.5	181.0	145.1	122.9	109.3	104.1	104.1
52.5°	5793.9	1970.0	355.1	237.3	196.3	157.1	124.6	109.3	97.3	93.9	92.2
55°	6589.4	2222.6	320.9	208.3	172.4	134.9	111.0	95.6	81.9	76.8	75.1
57.5°	7813.4	2603.3	283.4	182.7	141.7	112.7	95.6	80.2	64.9	56.3	54.6
60°	9290.0	3067.6	244.1	160.5	114.4	92.2	76.8	61.5	47.8	37.6	35.8
62.5°	10672.8	3363.0	206.6	134.9	90.5	70.0	54.6	46.1	34.1	23.9	22.2
65°	11283.9	3264.0	170.7	109.3	71.7	49.5	35.8	32.4	20.5	10.2	8.5
66°	11080.7	3117.2	157.1	99.0	64.9	42.7	30.7	27.3	15.4	5.1	5.1
67.5°	10481.6	2770.6	136.6	85.4	56.3	34.1	23.9	20.5	8.5	1.7	0.0
70°	8981.0	2241.4	107.5	63.2	41.0	23.9	13.7	10.2	5.1	0.0	0.0
72.5°	6898.4	1669.5	85.4	47.8	29.0	13.7	6.8	3.4	5.1	0.0	0.0
75°	4226.8	954.3	66.6	35.8	18.8	8.5	5.1	0.0	5.1	1.7	0.0
77.5°	1876.1	428.5	44.4	23.9	13.7	6.8	3.4	0.0	3.4	1.7	0.0
80°	474.6	140.0	25.6	17.1	10.2	5.1	1.7	0.0	3.4	3.4	1.7
82.5°	129.7	51.2	18.8	13.7	8.5	5.1	1.7	0.0	3.4	3.4	3.4
85°	51.2	23.9	17.1	13.7	10.2	5.1	1.7	0.0	3.4	3.4	3.4
87.5°	23.9	17.1	17.1	15.4	11.9	5.1	1.7	0.0	3.4	1.7	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)