

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: P458851

Luminaire Tested: **GALN-SA3D-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17224 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

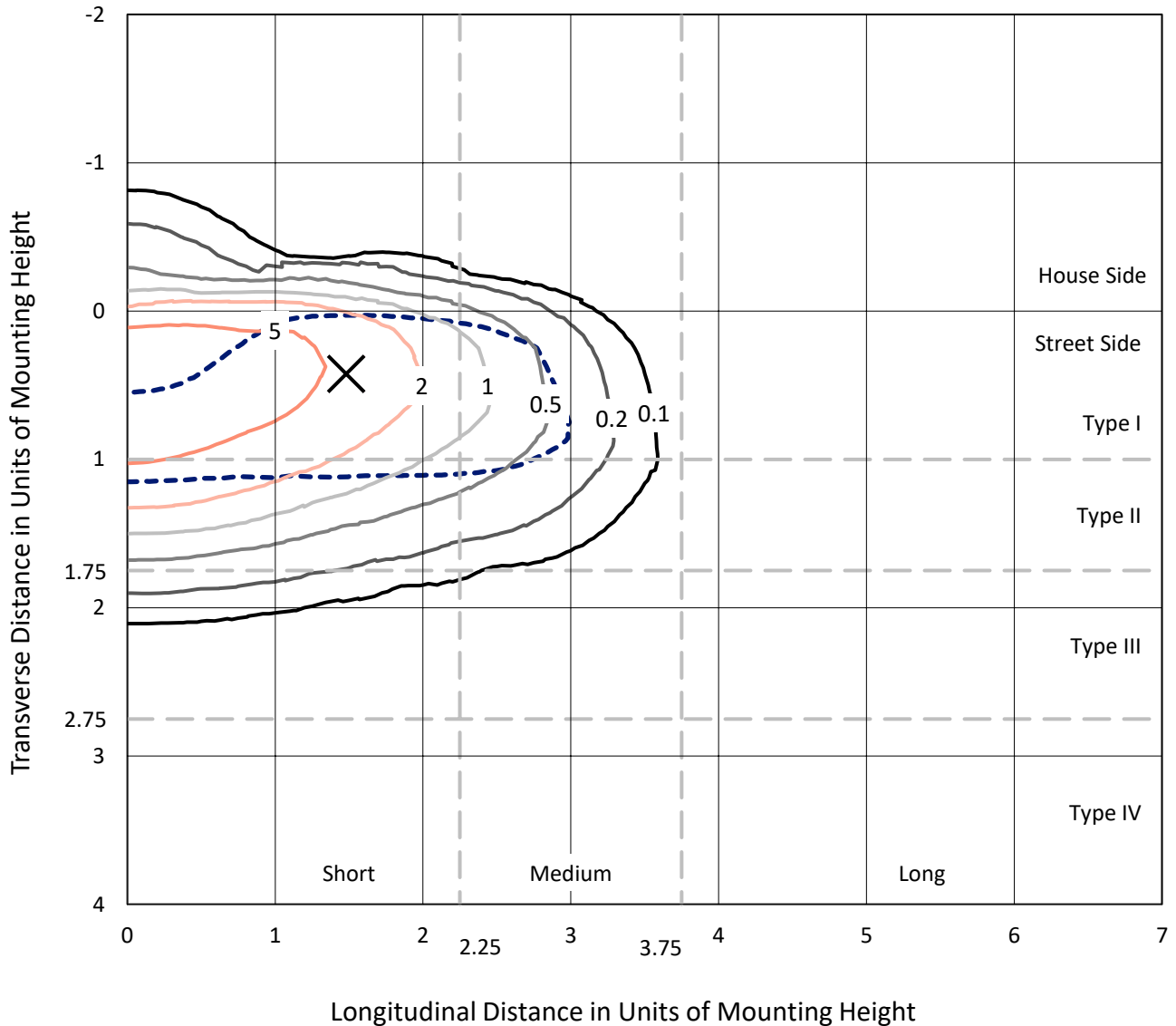
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458851
 CATALOG NUMBER: GALN-SA3D-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

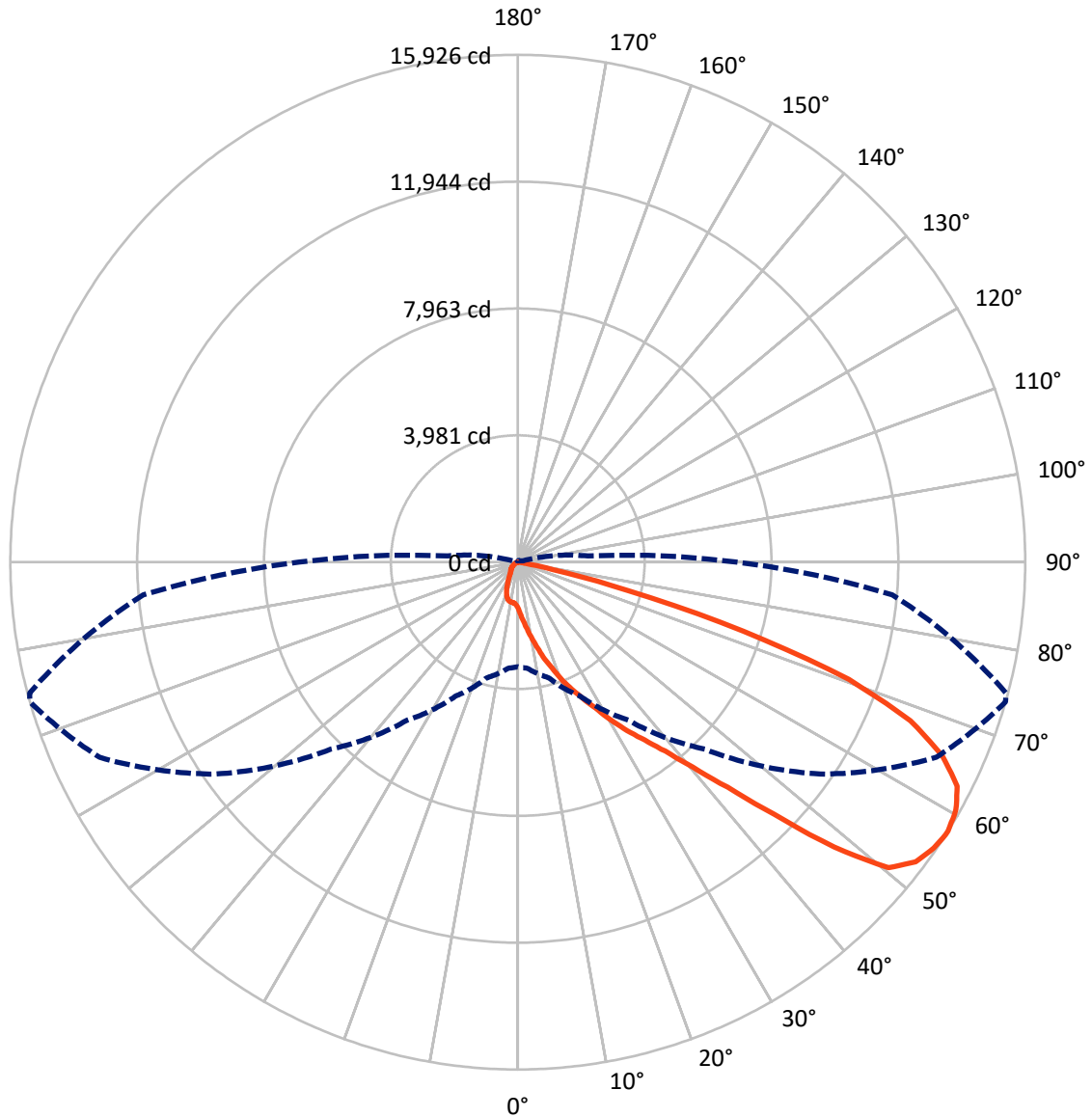
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

REPORT NUMBER: P458851
CATALOG NUMBER: GALN-SA3D-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P458851

CATALOG NUMBER: GALN-SA3D-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.4	0.0	993.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16230.6	0.0	16230.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	17224.0	0.0	17224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	1.0
10°-20°	686.3	4.0
20°-30°	1468.5	8.5
30°-40°	2699.0	15.7
40°-50°	4137.6	24.0
50°-60°	4377.1	25.4
60°-70°	2858.3	16.6
70°-80°	781.0	4.5
80°-90°	42.1	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°	17224.0	100.0
0°-180°	17224.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458851

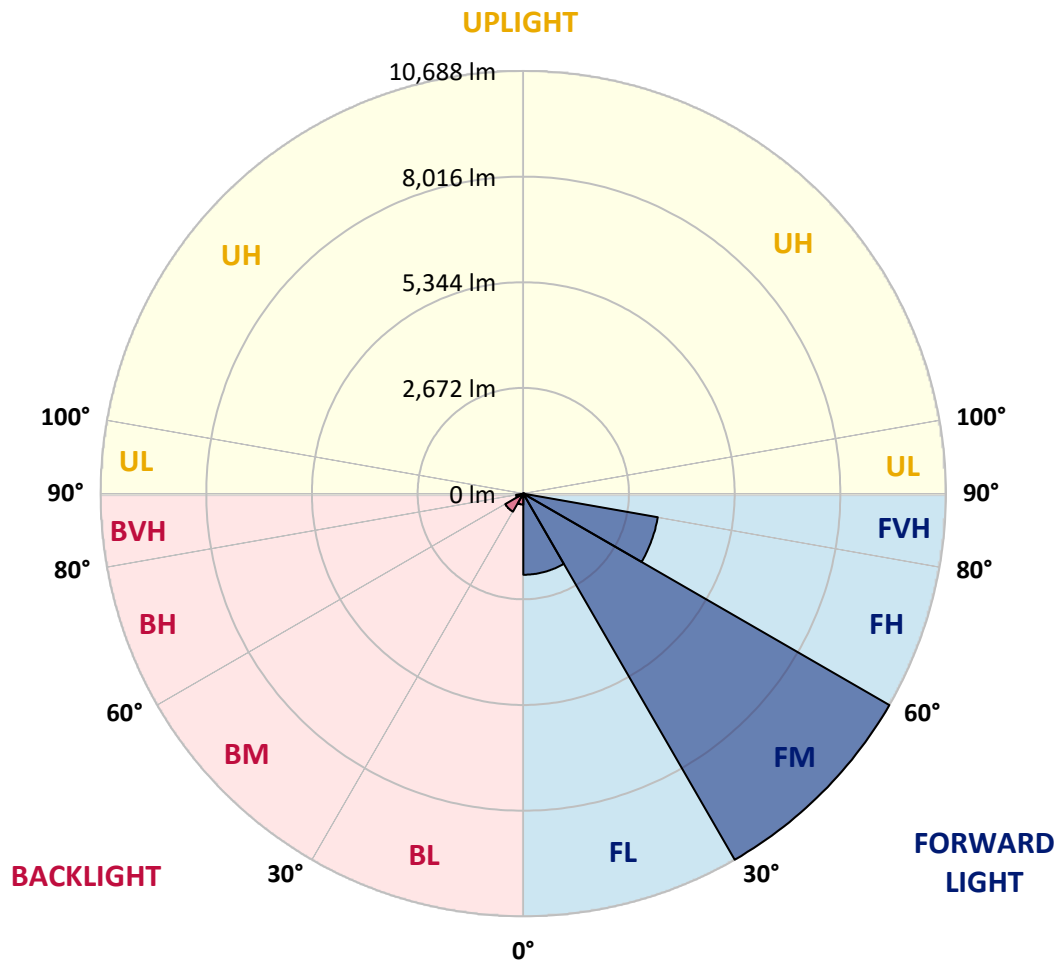
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2051.4	11.9			
FM (30°-60°)	10687.8	62.1			
FH (60°-80°)	3452.8	20.0			G2/5000
FVH (80°-90°)	38.6	0.2			G1/100
BL (0°-30°)	277.5	1.6	B1/500		
BM (30°-60°)	525.9	3.1	B1/1000		
BH (60°-80°)	186.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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-G2

Type II Short





REPORT NUMBER: P458851

CATALOG NUMBER: GALN-SA3D-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5
2.5°	2110.8	2091.8	2053.7	2040.7	1984.8	1897.9	1821.8	1719.6	1638.7	1630.4	1532.9
5°	2826.7	2783.9	2766.1	2680.4	2546.1	2420.0	2203.6	2039.5	1850.4	1836.1	1639.9
7.5°	3516.4	3457.0	3439.1	3358.3	3201.3	3002.7	2722.1	2423.6	2123.9	2096.5	1783.8
10°	4015.9	4024.2	3992.1	3938.6	3811.4	3609.2	3263.1	2855.2	2428.3	2393.8	1945.5
12.5°	4373.8	4372.7	4378.6	4377.4	4309.6	4156.2	3792.3	3322.6	2763.7	2695.9	2131.0
15°	4606.9	4610.5	4628.3	4690.2	4697.3	4602.2	4298.9	3769.7	3152.5	3068.1	2332.0
17.5°	4842.4	4867.4	4895.9	4954.2	5006.5	4968.4	4754.4	4235.9	3504.5	3441.5	2547.2
20°	5231.2	5265.7	5249.1	5284.8	5312.1	5315.7	5150.4	4666.4	3931.5	3825.6	2793.4
22.5°	5853.2	5852.0	5809.2	5745.0	5691.5	5689.1	5539.2	5108.8	4319.1	4216.9	3040.8
25°	6639.2	6642.8	6559.6	6376.4	6243.2	6080.3	5907.9	5496.4	4734.2	4608.1	3301.2
27.5°	7540.7	7518.1	7392.0	7139.9	6875.9	6597.6	6349.1	5947.1	5174.2	5069.5	3599.7
30°	8350.5	8342.2	8194.7	7886.7	7539.5	7260.0	6899.7	6512.0	5743.8	5615.4	3933.8
32.5°	9104.4	9116.3	8911.8	8593.1	8257.7	7935.5	7554.9	7051.9	6302.7	6120.8	4297.7
35°	9693.1	9705.0	9493.3	9228.1	8883.2	8615.7	8253.0	7627.5	6854.5	6701.1	4716.3
37.5°	10007.0	10022.5	9900.0	9700.2	9485.0	9350.6	9012.9	8368.3	7525.2	7432.4	5211.0
40°	10066.5	10084.3	10030.8	9977.3	9965.4	10061.7	9963.0	9241.2	8455.1	8310.1	5948.3
42.5°	9888.1	9911.9	9935.7	10054.6	10297.2	10650.4	10994.1	10425.6	9652.7	9457.6	6849.7
45°	9419.6	9417.2	9511.1	9819.1	10362.6	11116.5	12071.5	11908.5	11284.2	11052.3	8123.4
47.5°	8618.1	8606.2	8809.5	9248.3	10095.0	11202.2	12950.3	13709.0	13366.5	13152.4	9492.1
50°	7396.8	7455.0	7774.9	8387.4	9430.3	10942.9	13221.4	14889.8	15075.4	14848.2	10598.1
52.5°	5966.2	5963.8	6465.6	7296.9	8445.6	10372.1	13032.3	15103.9	15630.7	15457.1	11142.7
55°	4415.5	4446.4	4968.4	5806.8	7167.2	9330.4	12415.1	14883.9	15842.4	15719.9	11501.8
57°	3284.5	3339.2	3757.8	4645.0	6054.2	8299.4	11593.4	14490.3	15925.6	15859.0	11800.3
57.5°	3065.7	3068.1	3476.0	4282.3	5728.3	7903.4	11358.0	14326.2	15923.3	15886.4	11849.1
60°	1887.2	1946.7	2228.5	2894.5	4193.1	6168.3	9779.9	13383.1	15799.6	15853.1	12057.2
62.5°	1129.7	1154.7	1337.8	1744.5	2703.0	4502.3	8003.2	12176.1	15477.3	15640.2	12042.9
65°	726.6	732.5	815.8	1056.0	1689.8	3043.1	6167.1	10581.4	14643.7	14943.4	11572.0
67.5°	561.3	570.8	604.1	693.3	979.9	1895.6	4361.9	8879.7	13295.1	13681.6	10430.4
70°	498.3	503.0	514.9	543.5	648.1	1070.3	2713.7	6936.5	11025.0	11134.4	8162.6
72.5°	406.7	419.8	456.6	466.2	513.7	668.3	1510.3	4655.7	7407.5	7434.8	4566.5
75°	315.1	317.5	372.2	399.6	432.9	460.2	674.3	2347.5	3558.1	3367.8	1760.0
77.5°	235.5	246.2	271.1	305.6	353.2	329.4	302.1	884.8	1104.8	1084.5	511.4
80°	151.0	157.0	189.1	229.5	274.7	215.2	170.1	259.2	242.6	249.7	122.5
82.5°	76.1	77.3	121.3	186.7	174.8	108.2	107.0	105.8	90.4	89.2	57.1
85°	8.3	17.8	78.5	107.0	78.5	35.7	49.9	48.8	47.6	48.8	33.3
87.5°	1.2	1.2	13.1	15.5	10.7	11.9	14.3	15.5	19.0	17.8	14.3
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°	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5
2.5°	1485.3	1437.7	1349.7	1265.3	1202.3	1161.8	1109.5	1090.5	1063.1	1059.6	1046.5
5°	1549.5	1459.1	1305.7	1184.4	1086.9	1013.2	949.0	895.5	852.6	843.1	847.9
7.5°	1641.1	1506.7	1292.6	1127.4	991.8	865.7	763.5	700.4	655.2	638.6	641.0
10°	1744.5	1569.7	1290.3	1066.7	859.8	705.2	593.4	537.5	511.4	501.8	491.1
12.5°	1867.0	1642.3	1284.3	972.8	714.7	562.5	482.8	449.5	424.5	417.4	417.4
15°	2005.0	1719.6	1255.8	856.2	580.3	465.0	411.5	385.3	377.0	369.8	369.8
17.5°	2148.9	1795.7	1196.3	712.3	481.6	398.4	365.1	349.6	337.7	329.4	329.4
20°	2313.0	1870.6	1101.2	585.1	406.7	355.6	329.4	311.6	302.1	294.9	292.5
22.5°	2468.8	1931.2	979.9	480.4	354.4	319.9	296.1	277.1	267.6	264.0	264.0
25°	2630.5	1968.1	833.6	397.2	323.5	290.2	264.0	248.5	240.2	237.8	236.6
27.5°	2787.5	1989.5	705.2	347.2	294.9	262.8	237.8	225.9	217.6	215.2	216.4
30°	2977.7	1993.1	580.3	311.6	269.9	236.6	214.1	203.4	198.6	196.2	195.0
32.5°	3170.4	1988.3	487.6	290.2	246.2	214.1	195.0	186.7	183.1	179.6	179.6
35°	3386.8	1963.4	415.0	268.8	223.6	195.0	178.4	171.2	166.5	162.9	161.7
37.5°	3655.6	1950.3	373.4	245.0	203.4	177.2	161.7	154.6	151.0	146.3	145.1
40°	4078.9	2008.5	360.3	223.6	183.1	160.5	146.3	137.9	133.2	128.4	127.2
42.5°	4606.9	2110.8	338.9	202.2	165.3	145.1	130.8	121.3	113.0	107.0	104.6
45°	5290.7	2245.2	305.6	179.6	149.8	128.4	115.4	103.5	92.8	88.0	86.8
47.5°	6007.8	2374.8	275.9	161.7	133.2	114.2	99.9	86.8	77.3	73.7	72.5
50°	6447.8	2401.0	256.9	141.5	116.5	98.7	84.4	72.5	66.6	63.0	63.0
52.5°	6648.8	2359.4	230.7	123.7	101.1	86.8	72.5	63.0	59.5	57.1	55.9
55°	6789.1	2295.1	196.2	107.0	86.8	73.7	64.2	57.1	52.3	49.9	48.8
57°	6871.1	2208.3	170.1	93.9	74.9	64.2	57.1	51.1	46.4	41.6	41.6
57.5°	6874.7	2175.0	162.9	92.8	71.4	61.8	55.9	49.9	44.0	39.2	38.1
60°	6768.9	1946.7	130.8	78.5	57.1	52.3	46.4	39.2	30.9	26.2	25.0
62.5°	6428.8	1656.5	108.2	66.6	46.4	40.4	33.3	29.7	21.4	15.5	15.5
65°	5913.8	1343.8	92.8	53.5	38.1	29.7	22.6	21.4	13.1	7.1	5.9
67.5°	5169.4	1046.5	78.5	44.0	32.1	21.4	15.5	14.3	7.1	2.4	0.0
70°	3938.6	713.5	65.4	35.7	23.8	15.5	10.7	8.3	4.8	1.2	0.0
72.5°	2270.2	392.4	54.7	27.4	17.8	11.9	8.3	4.8	4.8	0.0	0.0
75°	811.0	168.9	41.6	20.2	14.3	9.5	5.9	2.4	3.6	1.2	0.0
77.5°	258.1	90.4	27.4	15.5	11.9	7.1	4.8	2.4	2.4	1.2	0.0
80°	76.1	47.6	16.6	13.1	8.3	5.9	3.6	1.2	2.4	1.2	0.0
82.5°	41.6	23.8	13.1	9.5	8.3	4.8	3.6	1.2	1.2	1.2	0.0
85°	21.4	14.3	10.7	9.5	8.3	4.8	3.6	1.2	0.0	1.2	1.2
87.5°	11.9	10.7	10.7	9.5	8.3	5.9	3.6	1.2	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)