

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: P451168

Luminaire Tested: **GALN-SA2A-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451168
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-SA2A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 6149 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

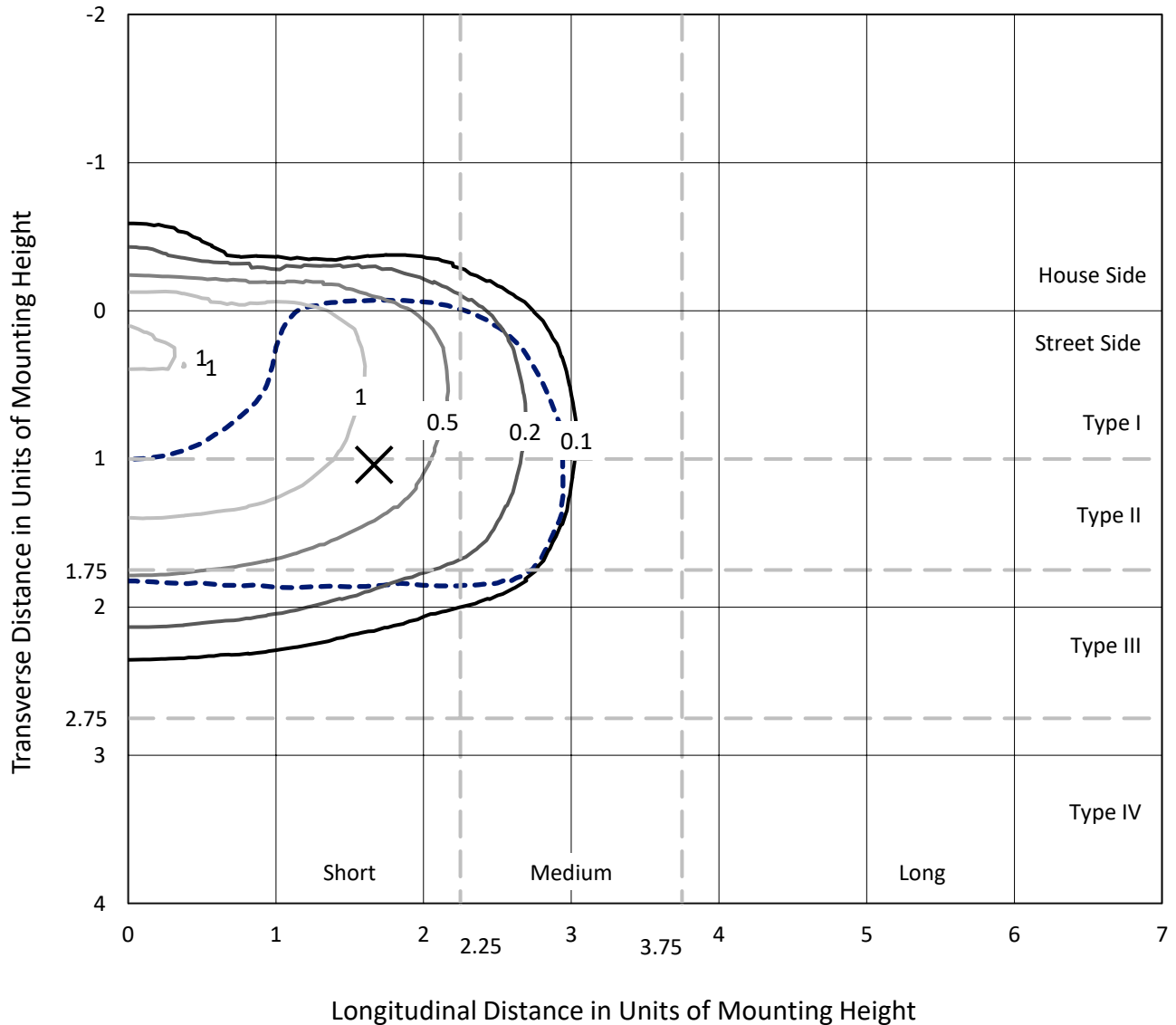
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451168
 CATALOG NUMBER: GALN-SA2A-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

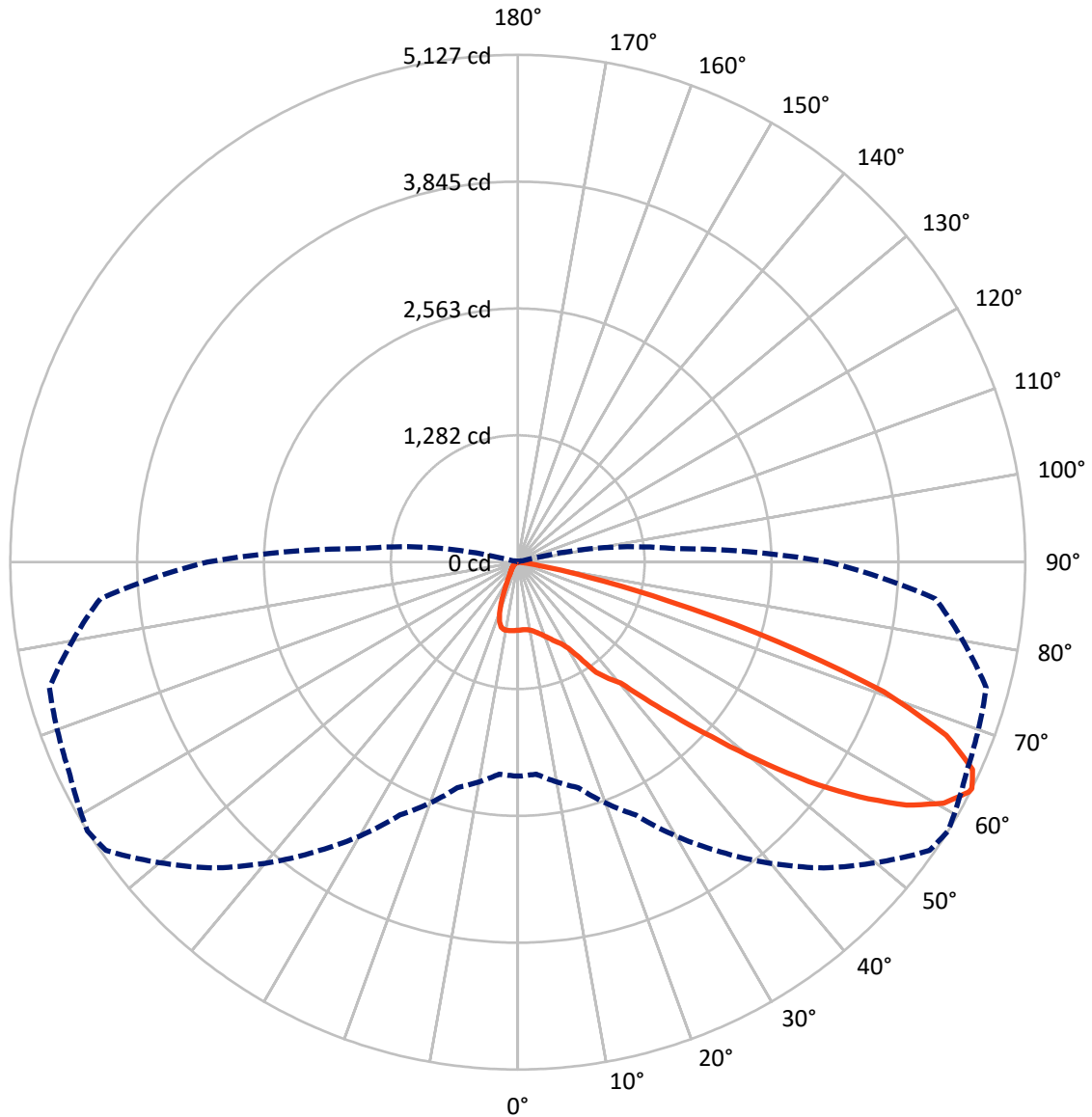
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA2A-730-U-T3-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA2A-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.7	0.0	636.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5512.3	0.0	5512.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	6149.0	0.0	6149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.0
10°-20°	175.5	2.9
20°-30°	304.6	5.0
30°-40°	559.8	9.1
40°-50°	1053.8	17.1
50°-60°	1802.4	29.3
60°-70°	1725.8	28.1
70°-80°	440.1	7.2
80°-90°	22.5	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°	6149.0	100.0
0°-180°	6149.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451168

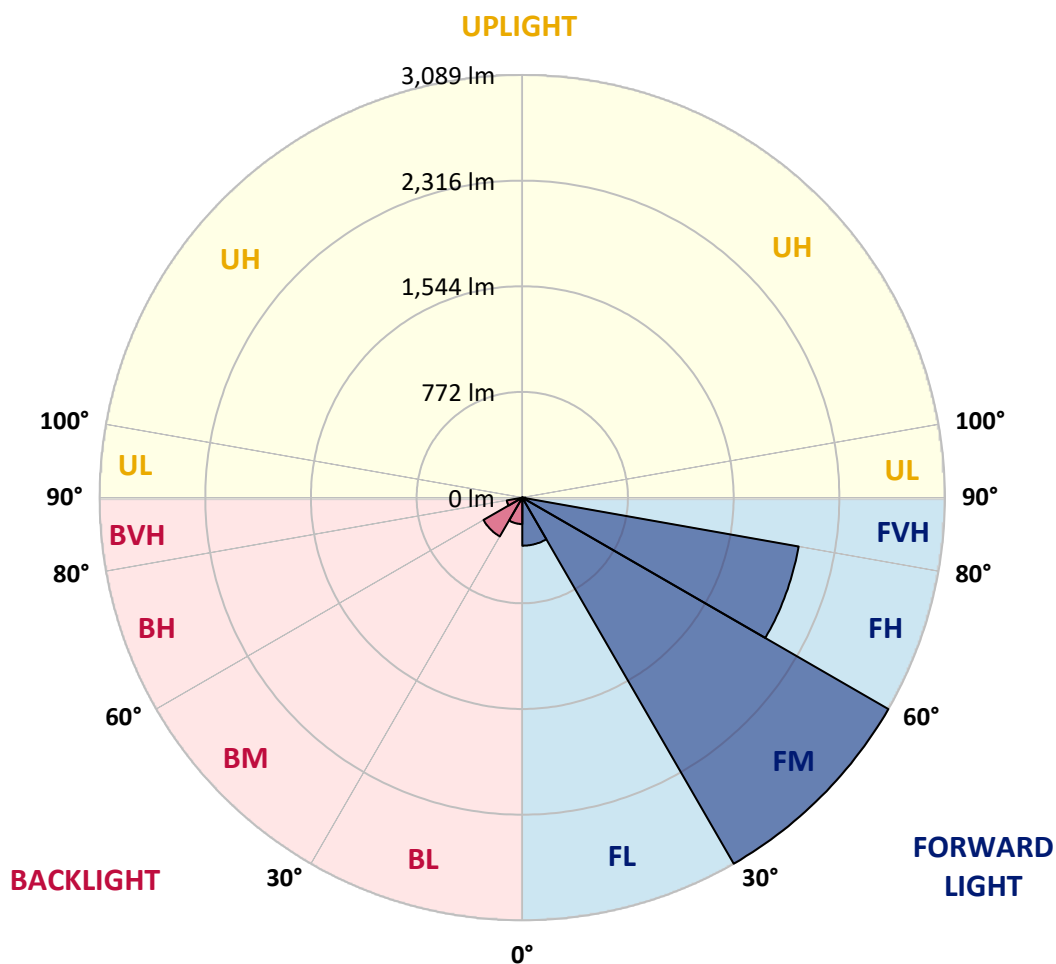
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.5	5.7			
FM	(30°-60°)	3088.5	50.2			
FH	(60°-80°)	2050.7	33.3			G2/5000
FVH	(80°-90°)	21.6	0.4			G1/100
BL	(0°-30°)	193.1	3.1	B1/500		
BM	(30°-60°)	327.5	5.3	B1/1000		
BH	(60°-80°)	115.3	1.9	B1/500		G1/500
BVH	(80°-90°)	0.9	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 III Short





REPORT NUMBER: P451168
 CATALOG NUMBER: GALN-SA2A-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	671.3	673.6	675.9	676.8	680.1	683.3	685.6	685.2	688.9	690.7	690.7
5°	644.4	644.4	650.4	656.0	665.3	674.5	683.3	685.2	692.1	698.6	700.9
7.5°	621.7	623.1	627.8	637.9	650.4	666.6	684.2	688.4	700.4	714.8	720.8
10°	611.1	612.0	618.0	628.7	644.4	666.6	691.2	699.1	717.6	740.3	748.6
12.5°	608.8	610.2	616.2	628.2	646.3	673.1	706.5	714.8	741.6	770.8	783.3
15°	612.9	613.9	619.9	632.9	652.8	684.7	726.8	738.4	770.3	804.1	820.3
17.5°	627.8	626.8	631.0	641.6	663.9	699.1	751.4	765.3	802.8	849.0	859.7
20°	690.7	684.7	681.0	671.7	680.5	719.4	781.0	801.4	847.7	894.9	902.3
22.5°	826.4	812.9	786.5	750.4	722.7	747.2	816.6	840.3	900.0	946.3	946.3
25°	999.0	981.9	955.5	876.8	808.8	793.0	856.9	886.5	956.9	1003.7	988.4
27.5°	1215.2	1201.8	1150.4	1058.8	954.6	873.1	903.7	931.0	1007.4	1063.9	1031.9
30°	1391.2	1384.7	1342.6	1260.6	1145.8	1026.8	990.7	1008.8	1074.5	1139.8	1106.9
32.5°	1539.8	1539.8	1496.7	1420.3	1312.9	1207.4	1138.4	1151.4	1214.3	1289.8	1228.7
35°	1703.2	1697.6	1662.9	1590.2	1469.9	1376.8	1348.6	1366.2	1423.1	1479.1	1328.7
37.5°	1874.9	1873.1	1837.0	1766.6	1668.5	1551.3	1485.1	1489.8	1518.9	1553.2	1445.8
40°	2061.5	2064.3	2017.1	1973.5	1881.0	1761.1	1634.2	1605.0	1632.4	1729.1	1662.0
42.5°	2281.9	2275.4	2255.0	2195.8	2121.2	2049.5	1897.2	1886.5	1910.6	2014.3	1941.6
45°	2537.9	2547.1	2512.0	2479.1	2429.1	2369.4	2242.1	2223.5	2249.9	2411.0	2307.8
47.5°	2794.4	2785.6	2808.2	2802.2	2829.1	2784.6	2672.1	2634.2	2697.6	2850.4	2698.5
50°	2989.7	2999.4	3046.7	3115.6	3230.9	3255.9	3148.0	3135.1	3163.3	3261.5	3048.1
52.5°	3116.6	3149.0	3223.0	3400.4	3608.2	3769.8	3687.8	3680.9	3669.3	3695.7	3382.3
55°	3199.4	3232.3	3329.1	3590.2	3948.0	4210.5	4214.7	4185.1	4108.7	4089.7	3694.8
57.5°	3148.5	3155.0	3293.0	3642.0	4136.4	4524.9	4661.0	4631.3	4490.1	4418.4	3970.7
60°	2830.0	2843.4	3035.6	3445.7	4054.5	4627.6	4956.8	4943.4	4788.7	4707.7	4185.5
62.5°	2265.7	2304.6	2502.2	2959.6	3673.5	4454.5	5076.7	5114.7	4994.3	4882.7	4253.1
63°	2162.0	2149.5	2358.3	2818.0	3572.6	4368.8	5078.5	5126.7	5003.5	4899.4	4234.6
65°	1600.4	1637.9	1773.6	2222.2	2973.1	3970.2	4964.2	5049.4	4969.3	4825.8	4029.5
67.5°	898.6	896.7	1046.7	1454.1	2081.0	3114.3	4488.7	4668.8	4652.2	4330.4	3340.2
70°	439.8	446.7	508.3	753.7	1206.9	2148.5	3730.0	3924.4	3930.4	3401.3	2309.6
72.5°	199.1	202.3	246.3	367.1	620.4	1143.9	2570.3	2755.9	2721.7	2167.5	1275.4
75°	105.1	112.0	135.6	184.7	299.1	471.7	1398.1	1577.7	1506.0	990.2	469.4
77.5°	77.8	80.1	92.1	117.6	160.2	183.8	603.2	717.6	672.2	358.3	155.6
80°	56.9	58.8	68.5	83.3	100.9	93.5	227.3	260.6	233.8	121.8	47.7
82.5°	34.7	35.2	50.0	62.0	63.4	52.3	75.0	80.6	84.3	68.5	25.9
85°	12.5	15.7	33.8	44.9	37.5	26.4	31.5	34.7	38.0	43.5	15.3
87.5°	1.4	1.9	16.2	21.8	10.6	9.7	11.6	13.0	13.9	16.2	7.4
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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 CATALOG NUMBER: GALN-SA2A-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	692.6	694.4	693.0	690.7	690.3	688.9	686.1	686.1	686.1	687.0	686.1
5°	702.8	704.1	700.9	696.3	691.2	684.7	677.8	673.6	673.1	672.2	669.9
7.5°	722.2	724.1	716.6	705.5	691.6	675.9	661.1	647.2	640.7	635.6	635.6
10°	750.4	752.3	737.5	717.6	689.8	657.8	622.7	590.7	565.7	554.1	551.4
12.5°	784.2	785.2	760.6	725.9	680.1	618.5	543.5	473.6	425.0	402.8	400.5
15°	821.3	814.8	782.4	729.1	652.3	537.5	407.9	322.2	271.8	256.9	262.5
17.5°	858.8	846.7	799.0	724.1	589.8	407.9	274.1	219.9	204.2	200.0	200.0
20°	894.0	877.3	811.1	701.8	481.5	281.0	203.2	190.3	187.5	184.7	185.2
22.5°	929.1	903.7	821.7	652.3	358.8	200.9	181.9	177.8	174.1	170.4	169.9
25°	963.4	928.2	825.9	560.6	244.4	172.7	166.2	160.6	153.2	149.1	148.1
27.5°	999.0	957.8	823.1	444.9	178.2	154.6	148.1	140.3	131.5	124.1	124.1
30°	1067.6	1014.3	813.4	319.9	150.0	136.1	127.8	115.3	105.6	98.1	97.7
32.5°	1161.1	1087.9	780.1	225.0	133.3	119.9	107.4	93.5	83.3	77.8	77.8
35°	1244.4	1162.0	717.6	165.7	119.9	104.2	88.9	75.5	67.6	63.9	62.5
37.5°	1371.3	1270.3	631.5	134.7	106.9	90.3	74.5	62.0	55.6	52.8	52.8
40°	1561.5	1402.7	525.9	118.1	94.4	76.8	62.0	52.3	47.2	44.0	44.0
42.5°	1797.6	1564.8	419.0	106.0	82.9	66.2	51.9	44.4	39.8	37.5	37.0
45°	2094.8	1735.6	322.7	94.9	73.6	56.5	44.0	37.5	32.9	31.5	31.9
47.5°	2405.0	1886.1	250.0	85.2	63.9	47.7	37.5	32.4	29.2	27.3	27.3
50°	2669.8	1989.8	189.8	74.1	56.5	40.3	32.9	29.2	26.4	25.5	25.0
52.5°	2891.1	2019.8	145.4	64.3	49.5	34.7	29.2	26.4	24.1	22.7	22.7
55°	3079.5	1993.5	113.9	54.2	41.7	30.1	25.9	23.6	20.8	19.4	19.0
57.5°	3189.7	1908.7	87.0	44.9	33.8	25.0	22.7	19.9	16.7	14.4	14.4
60°	3245.3	1785.6	66.7	37.0	25.9	19.9	18.5	14.8	11.6	9.7	9.3
62.5°	3178.6	1622.2	50.5	29.2	19.4	14.8	12.5	10.6	7.4	5.6	5.6
63°	3137.4	1575.0	48.6	27.8	18.1	13.9	11.6	9.7	6.5	5.1	4.6
65°	2860.1	1368.9	39.8	22.2	14.4	9.7	7.9	6.9	4.6	2.3	1.9
67.5°	2271.2	1047.2	31.5	16.7	10.2	6.9	4.6	4.2	1.4	0.0	0.0
70°	1535.6	676.4	24.5	12.0	6.9	4.2	2.3	1.9	0.5	0.0	0.0
72.5°	800.9	346.7	19.0	8.8	4.2	2.8	1.4	0.5	0.0	0.0	0.0
75°	283.3	118.1	13.9	5.6	2.8	1.4	0.5	0.0	0.0	0.0	0.0
77.5°	85.6	44.0	8.8	4.2	1.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	30.1	16.2	5.1	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	7.9	3.2	2.3	1.4	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.3	5.1	2.8	2.3	1.4	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.7	2.8	2.3	1.9	0.9	0.5	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)