

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: P451195

Luminaire Tested: **GALN-SA2A-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451195
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-SA2A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA 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: 7363 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

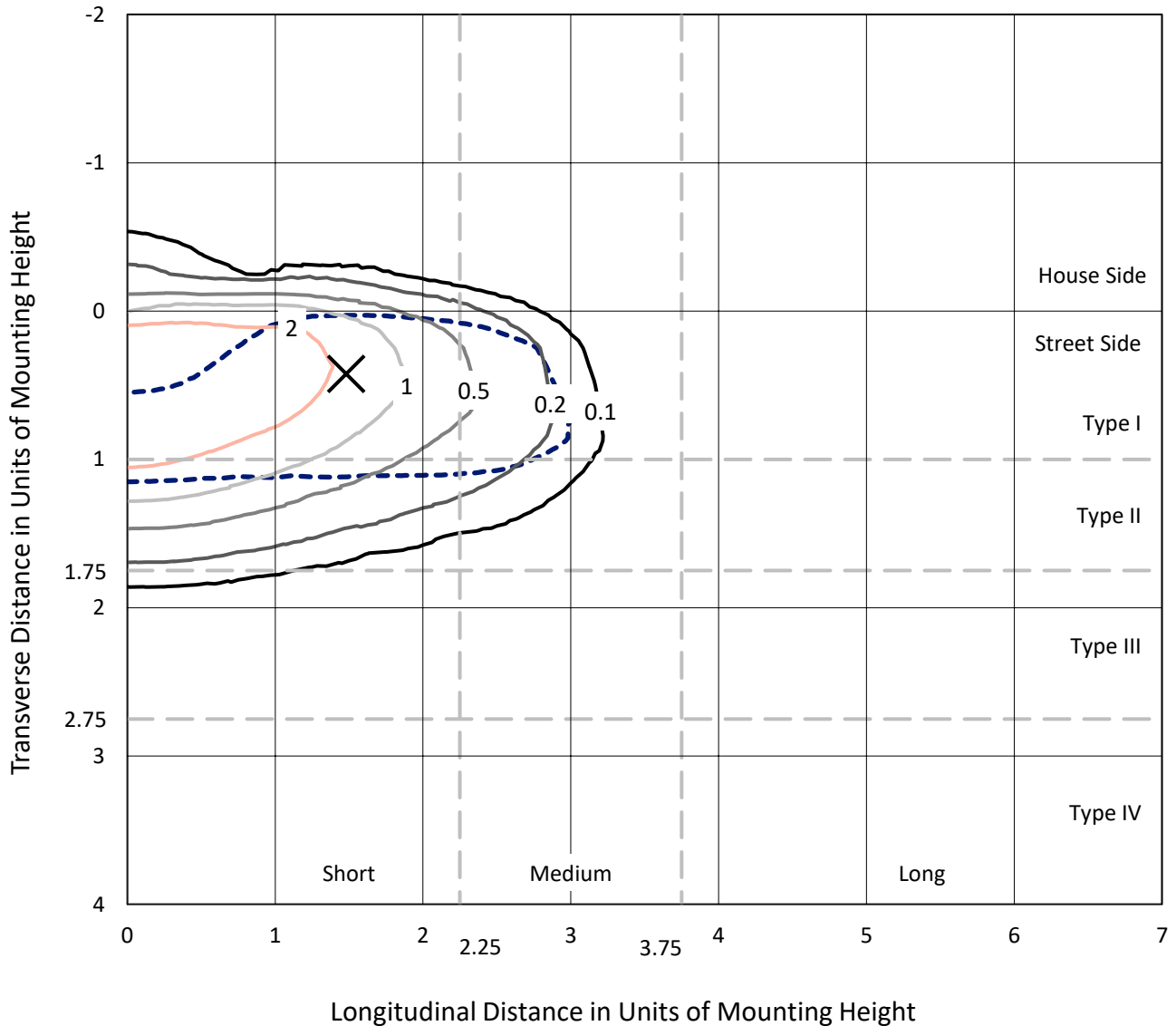
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451195
 CATALOG NUMBER: GALN-SA2A-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

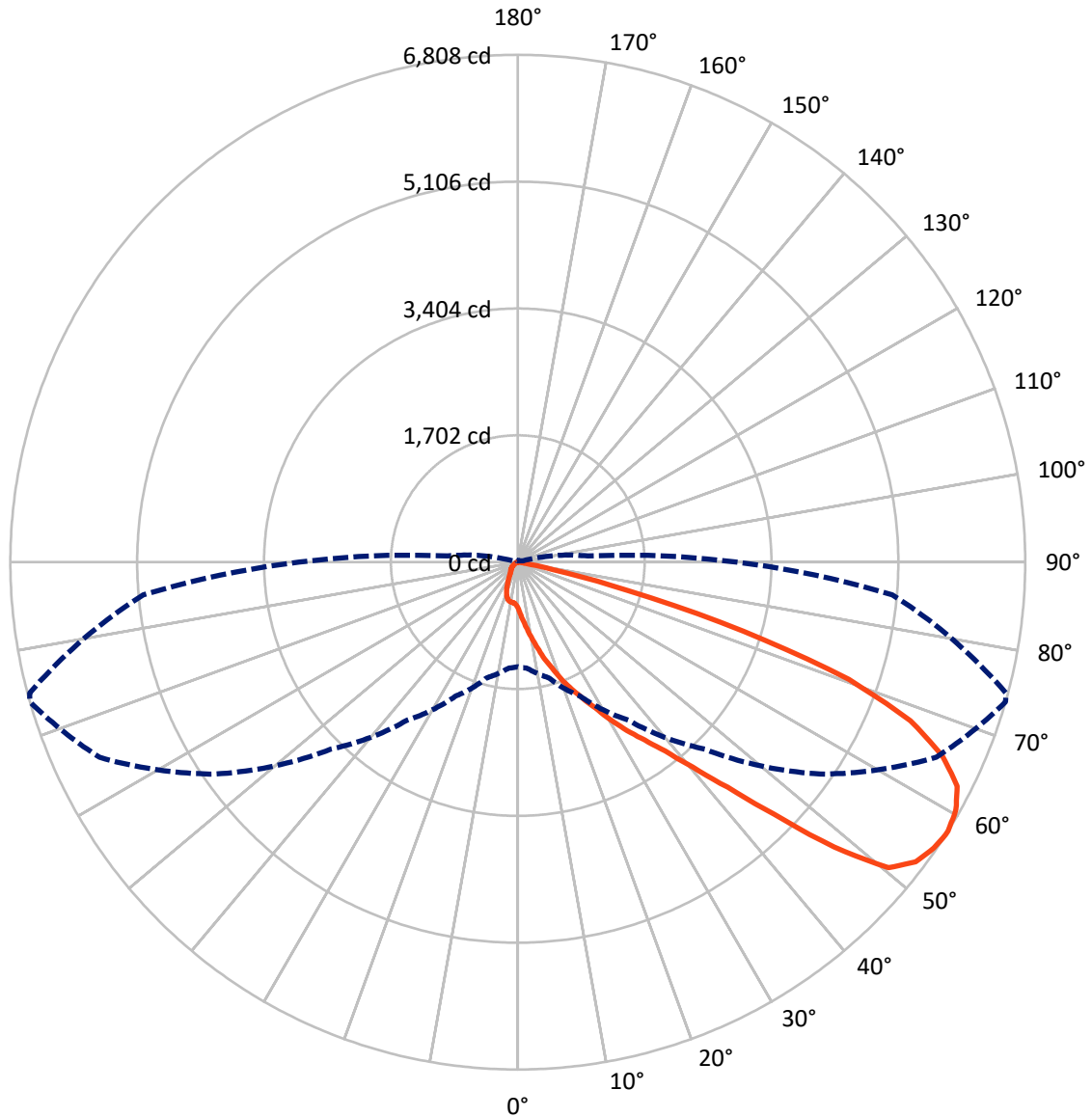
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P451195
CATALOG NUMBER: GALN-SA2A-740-U-T2R-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA2A-740-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	424.7	0.0	424.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	6938.3	0.0	6938.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	7363.0	0.0	7363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.0
10°-20°	293.4	4.0
20°-30°	627.7	8.5
30°-40°	1153.8	15.7
40°-50°	1768.8	24.0
50°-60°	1871.1	25.4
60°-70°	1221.9	16.6
70°-80°	333.9	4.5
80°-90°	18.0	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°	7363.0	100.0
0°-180°	7363.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451195

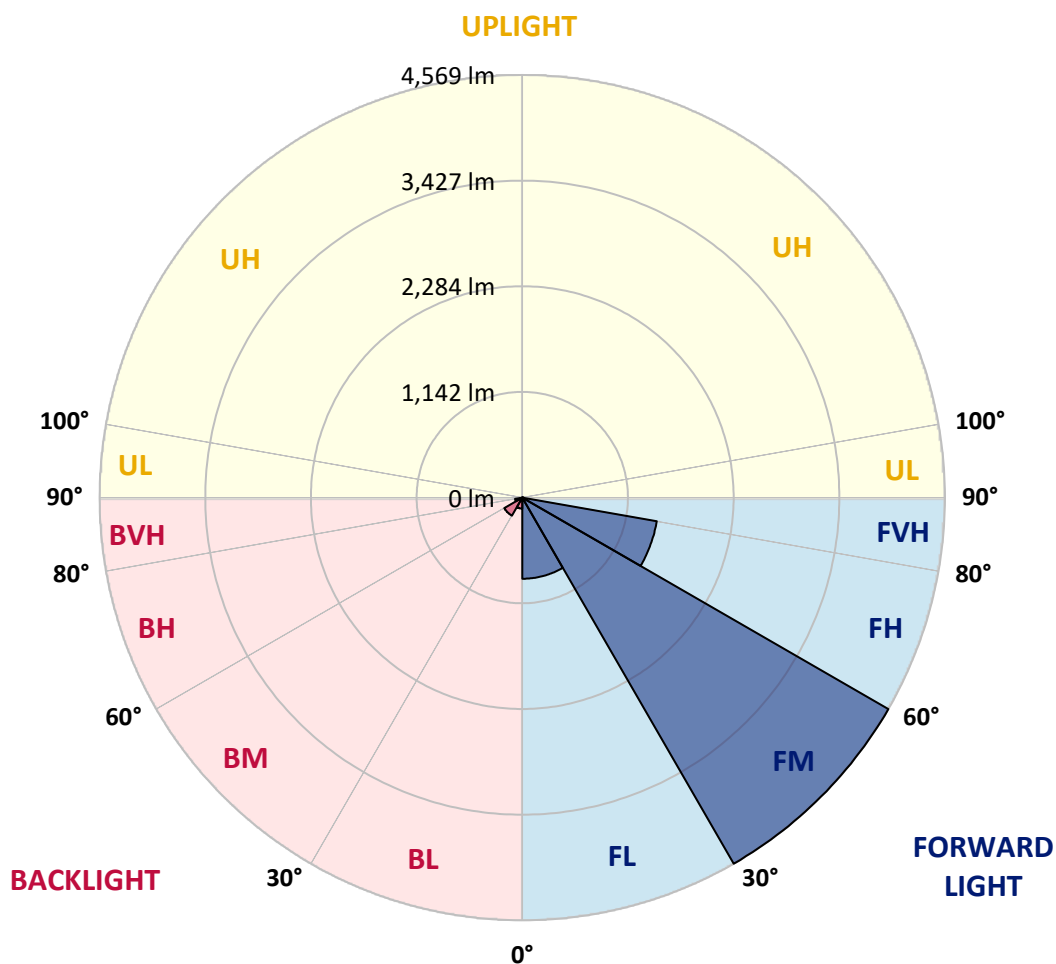
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.9	11.9			
FM (30°-60°)	4568.9	62.1			
FH (60°-80°)	1476.0	20.0			G1/1800
FVH (80°-90°)	16.5	0.2			G1/100
BL (0°-30°)	118.6	1.6	B1/500		
BM (30°-60°)	224.8	3.1	B1/1000		
BH (60°-80°)	79.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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-G1

Type II Short





REPORT NUMBER: P451195

CATALOG NUMBER: GALN-SA2A-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	902.3	894.2	877.9	872.3	848.5	811.3	778.8	735.1	700.5	697.0	655.3
5°	1208.4	1190.1	1182.4	1145.8	1088.4	1034.5	942.0	871.8	791.0	784.9	701.0
7.5°	1503.2	1477.8	1470.2	1435.6	1368.5	1283.6	1163.6	1036.0	907.9	896.2	762.5
10°	1716.7	1720.3	1706.6	1683.7	1629.3	1542.9	1394.9	1220.6	1038.1	1023.3	831.7
12.5°	1869.8	1869.2	1871.8	1871.3	1842.3	1776.7	1621.2	1420.4	1181.4	1152.5	911.0
15°	1969.4	1970.9	1978.5	2005.0	2008.0	1967.4	1837.7	1611.5	1347.7	1311.6	996.9
17.5°	2070.0	2080.7	2092.9	2117.8	2140.2	2123.9	2032.4	1810.8	1498.1	1471.2	1088.9
20°	2236.3	2251.0	2243.9	2259.2	2270.8	2272.4	2201.7	1994.8	1680.6	1635.4	1194.1
22.5°	2502.2	2501.6	2483.3	2455.9	2433.0	2432.0	2367.9	2183.9	1846.4	1802.6	1299.9
25°	2838.2	2839.7	2804.1	2725.8	2668.9	2599.2	2525.5	2349.6	2023.8	1969.9	1411.2
27.5°	3223.5	3213.9	3160.0	3052.2	2939.3	2820.4	2714.1	2542.3	2211.9	2167.1	1538.8
30°	3569.7	3566.2	3503.1	3371.4	3223.0	3103.5	2949.5	2783.8	2455.4	2400.5	1681.7
32.5°	3892.0	3897.1	3809.7	3673.4	3530.1	3392.3	3229.6	3014.6	2694.3	2616.5	1837.2
35°	4143.6	4148.7	4058.2	3944.9	3797.5	3683.1	3528.0	3260.6	2930.2	2864.6	2016.2
37.5°	4277.9	4284.5	4232.1	4146.7	4054.7	3997.2	3852.9	3577.3	3216.9	3177.3	2227.6
40°	4303.3	4310.9	4288.0	4265.1	4260.1	4301.2	4259.0	3950.5	3614.4	3552.4	2542.8
42.5°	4227.0	4237.2	4247.4	4298.2	4401.9	4552.9	4699.8	4456.8	4126.4	4043.0	2928.2
45°	4026.7	4025.7	4065.9	4197.5	4429.9	4752.2	5160.4	5090.7	4823.8	4724.7	3472.6
47.5°	3684.1	3679.0	3765.9	3953.5	4315.5	4788.8	5536.0	5860.4	5714.0	5622.5	4057.7
50°	3162.0	3186.9	3323.7	3585.5	4031.3	4677.9	5652.0	6365.2	6444.5	6347.4	4530.5
52.5°	2550.4	2549.4	2764.0	3119.3	3610.4	4433.9	5571.1	6456.7	6681.9	6607.7	4763.3
55°	1887.5	1900.8	2123.9	2482.3	3063.9	3988.6	5307.3	6362.6	6772.4	6720.0	4916.9
57°	1404.1	1427.5	1606.4	1985.7	2588.1	3547.9	4956.0	6194.4	6808.0	6779.5	5044.5
57.5°	1310.6	1311.6	1485.9	1830.6	2448.8	3378.6	4855.4	6124.2	6807.0	6791.2	5065.3
60°	806.8	832.2	952.7	1237.4	1792.5	2636.9	4180.8	5721.1	6754.1	6777.0	5154.3
62.5°	482.9	493.6	571.9	745.8	1155.5	1924.7	3421.3	5205.1	6616.3	6686.0	5148.2
65°	310.6	313.2	348.7	451.4	722.4	1300.9	2636.4	4523.4	6260.0	6388.1	4946.9
67.5°	239.9	244.0	258.2	296.4	418.9	810.3	1864.7	3795.9	5683.5	5848.7	4458.8
70°	213.0	215.0	220.1	232.3	277.1	457.5	1160.1	2965.3	4713.0	4759.8	3489.4
72.5°	173.9	179.5	195.2	199.3	219.6	285.7	645.6	1990.2	3166.6	3178.3	1952.1
75°	134.7	135.7	159.1	170.8	185.0	196.7	288.2	1003.5	1521.0	1439.7	752.4
77.5°	100.7	105.2	115.9	130.6	151.0	140.8	129.1	378.2	472.3	463.6	218.6
80°	64.6	67.1	80.8	98.1	117.4	92.0	72.7	110.8	103.7	106.8	52.4
82.5°	32.5	33.0	51.9	79.8	74.7	46.3	45.8	45.2	38.6	38.1	24.4
85°	3.6	7.6	33.6	45.8	33.6	15.3	21.4	20.8	20.3	20.8	14.2
87.5°	0.5	0.5	5.6	6.6	4.6	5.1	6.1	6.6	8.1	7.6	6.1
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: P451195
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6	616.6
2.5°	634.9	614.6	577.0	540.9	514.0	496.7	474.3	466.2	454.5	452.9	447.4
5°	662.4	623.8	558.2	506.3	464.6	433.1	405.7	382.8	364.5	360.4	362.5
7.5°	701.5	644.1	552.6	481.9	424.0	370.1	326.4	299.4	280.1	273.0	274.0
10°	745.8	671.0	551.6	456.0	367.5	301.5	253.7	229.8	218.6	214.5	210.0
12.5°	798.1	702.0	549.0	415.8	305.5	240.5	206.4	192.2	181.5	178.4	178.4
15°	857.1	735.1	536.8	366.0	248.1	198.8	175.9	164.7	161.2	158.1	158.1
17.5°	918.6	767.6	511.4	304.5	205.9	170.3	156.1	149.5	144.4	140.8	140.8
20°	988.8	799.7	470.7	250.1	173.9	152.0	140.8	133.2	129.1	126.1	125.1
22.5°	1055.4	825.6	418.9	205.4	151.5	136.7	126.6	118.4	114.4	112.9	112.9
25°	1124.5	841.3	356.4	169.8	138.3	124.0	112.9	106.2	102.7	101.7	101.2
27.5°	1191.6	850.5	301.5	148.4	126.1	112.3	101.7	96.6	93.0	92.0	92.5
30°	1272.9	852.0	248.1	133.2	115.4	101.2	91.5	86.9	84.9	83.9	83.4
32.5°	1355.3	850.0	208.4	124.0	105.2	91.5	83.4	79.8	78.3	76.8	76.8
35°	1447.8	839.3	177.4	114.9	95.6	83.4	76.3	73.2	71.2	69.6	69.1
37.5°	1562.7	833.7	159.6	104.7	86.9	75.7	69.1	66.1	64.6	62.5	62.0
40°	1743.7	858.6	154.0	95.6	78.3	68.6	62.5	59.0	56.9	54.9	54.4
42.5°	1969.4	902.3	144.9	86.4	70.7	62.0	55.9	51.9	48.3	45.8	44.7
45°	2261.7	959.8	130.6	76.8	64.1	54.9	49.3	44.2	39.7	37.6	37.1
47.5°	2568.2	1015.2	117.9	69.1	56.9	48.8	42.7	37.1	33.0	31.5	31.0
50°	2756.3	1026.4	109.8	60.5	49.8	42.2	36.1	31.0	28.5	26.9	26.9
52.5°	2842.2	1008.6	98.6	52.9	43.2	37.1	31.0	26.9	25.4	24.4	23.9
55°	2902.2	981.1	83.9	45.8	37.1	31.5	27.5	24.4	22.4	21.4	20.8
57°	2937.3	944.0	72.7	40.2	32.0	27.5	24.4	21.9	19.8	17.8	17.8
57.5°	2938.8	929.8	69.6	39.7	30.5	26.4	23.9	21.4	18.8	16.8	16.3
60°	2893.6	832.2	55.9	33.6	24.4	22.4	19.8	16.8	13.2	11.2	10.7
62.5°	2748.2	708.1	46.3	28.5	19.8	17.3	14.2	12.7	9.2	6.6	6.6
65°	2528.1	574.4	39.7	22.9	16.3	12.7	9.7	9.2	5.6	3.1	2.5
67.5°	2209.8	447.4	33.6	18.8	13.7	9.2	6.6	6.1	3.1	1.0	0.0
70°	1683.7	305.0	28.0	15.3	10.2	6.6	4.6	3.6	2.0	0.5	0.0
72.5°	970.5	167.8	23.4	11.7	7.6	5.1	3.6	2.0	2.0	0.0	0.0
75°	346.7	72.2	17.8	8.6	6.1	4.1	2.5	1.0	1.5	0.5	0.0
77.5°	110.3	38.6	11.7	6.6	5.1	3.1	2.0	1.0	1.0	0.5	0.0
80°	32.5	20.3	7.1	5.6	3.6	2.5	1.5	0.5	1.0	0.5	0.0
82.5°	17.8	10.2	5.6	4.1	3.6	2.0	1.5	0.5	0.5	0.5	0.0
85°	9.2	6.1	4.6	4.1	3.6	2.0	1.5	0.5	0.0	0.5	0.5
87.5°	5.1	4.6	4.6	4.1	3.6	2.5	1.5	0.5	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)