

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: P451197

Luminaire Tested: **GALN-SA2A-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451197
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-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 6752 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

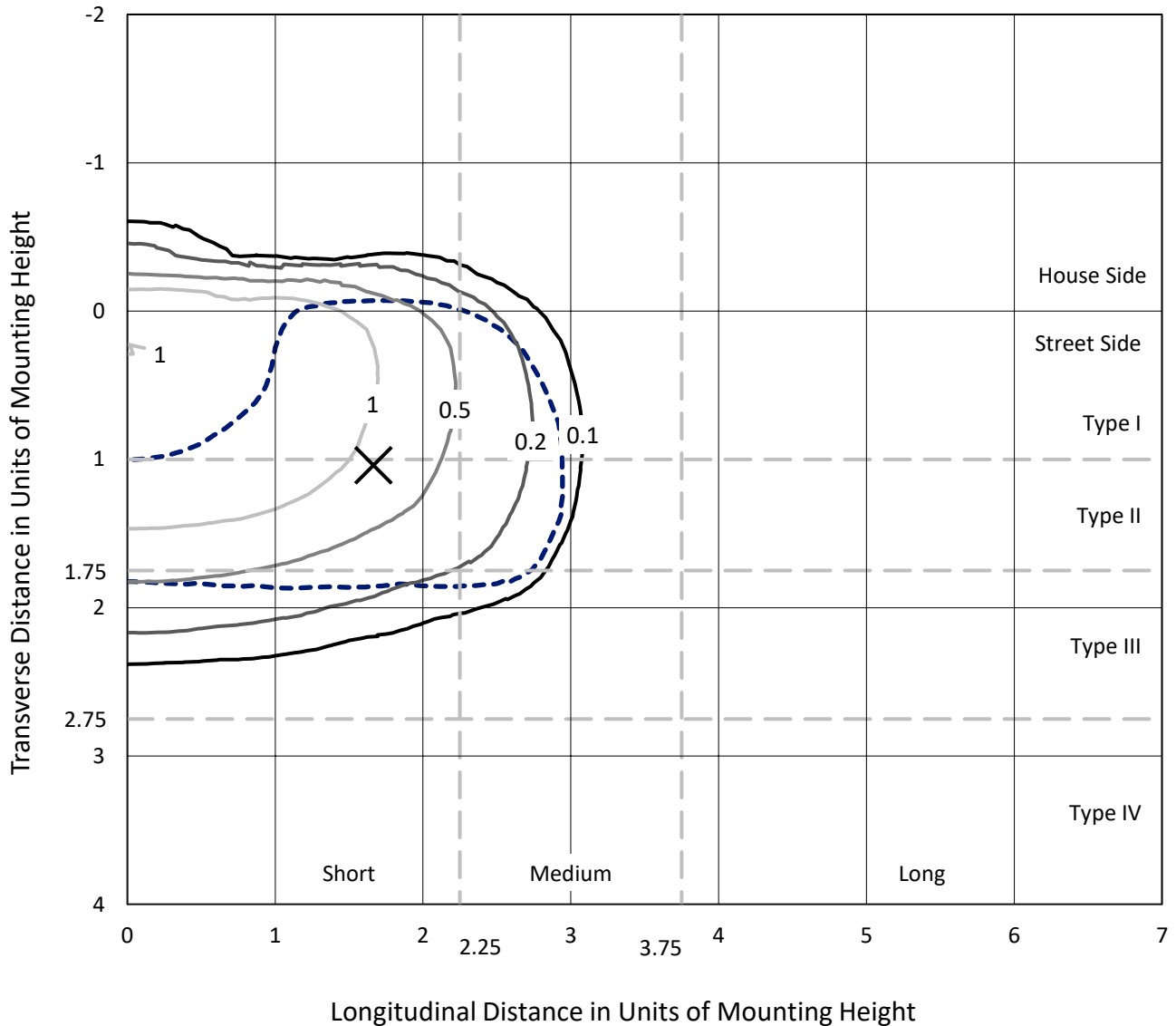
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

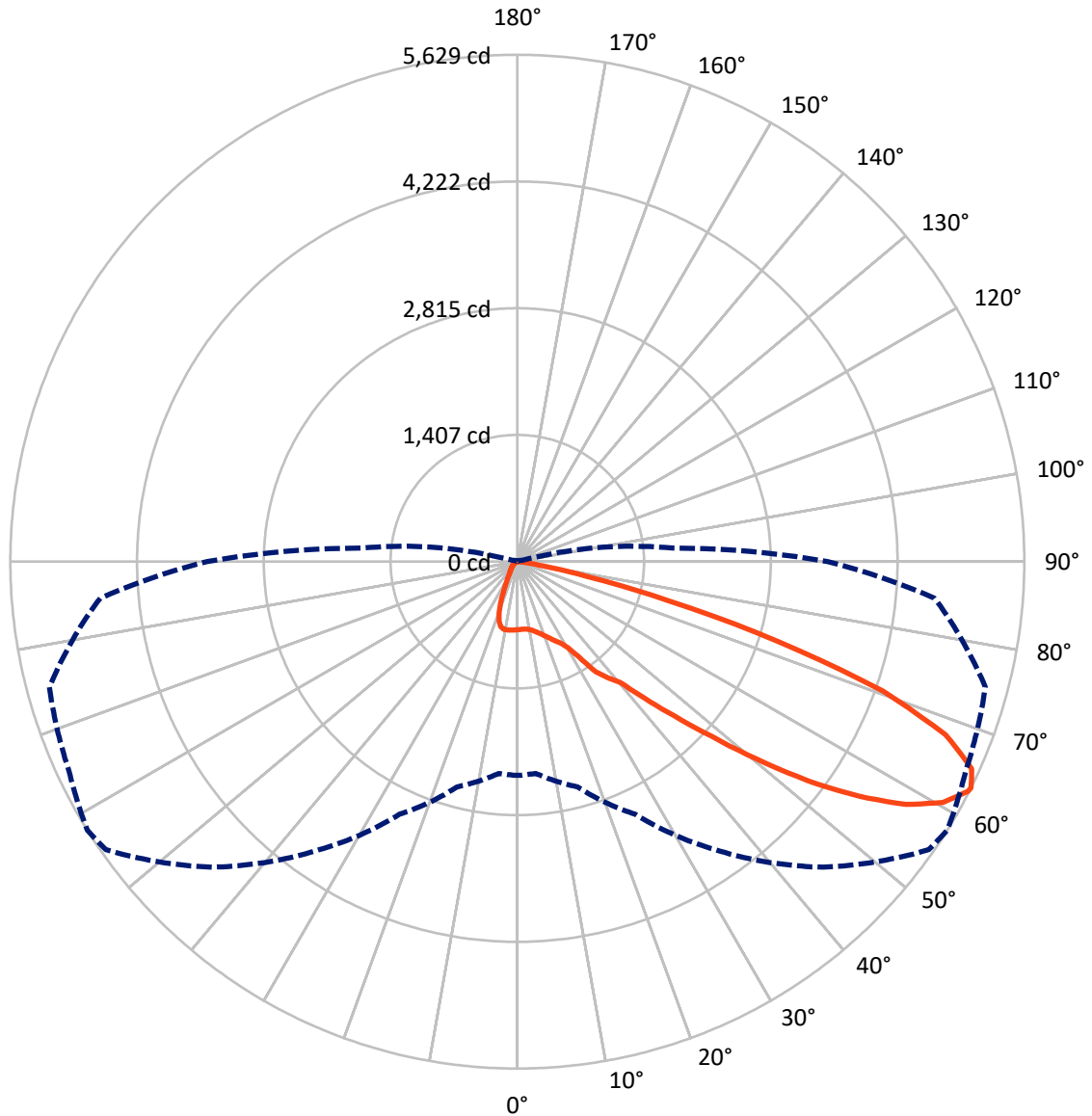
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.1	0.0	699.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	6052.9	0.0	6052.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	6752.0	0.0	6752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.0
10°-20°	192.7	2.9
20°-30°	334.5	5.0
30°-40°	614.7	9.1
40°-50°	1157.1	17.1
50°-60°	1979.2	29.3
60°-70°	1895.1	28.1
70°-80°	483.2	7.2
80°-90°	24.7	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°	6752.0	100.0
0°-180°	6752.0	100.0

Coefficient of Utilization



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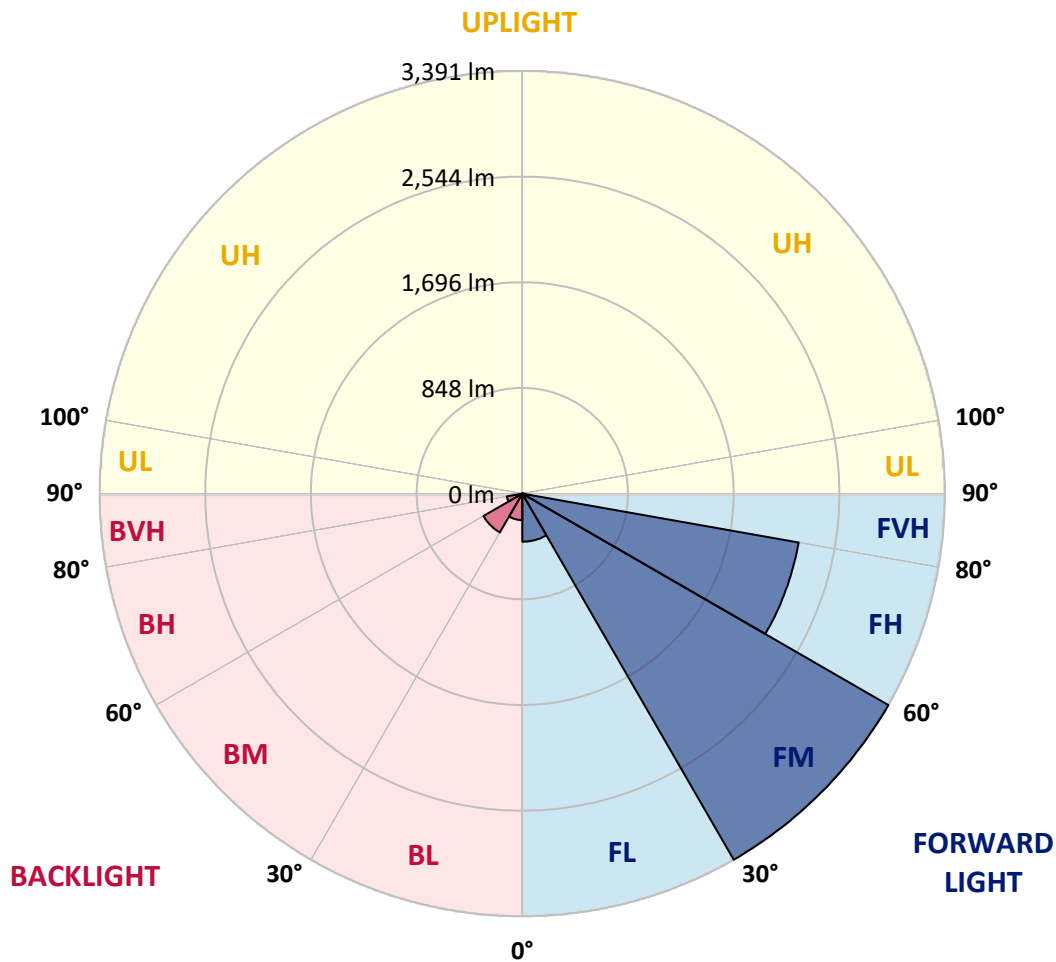
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.0	5.7			
FM (30°-60°)	3391.4	50.2			
FH (60°-80°)	2251.8	33.3			G2/5000
FVH (80°-90°)	23.8	0.4			G1/100
BL (0°-30°)	212.0	3.1	B1/500		
BM (30°-60°)	359.6	5.3	B1/1000		
BH (60°-80°)	126.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9
2.5°	737.1	739.6	742.2	743.2	746.8	750.3	752.9	752.4	756.4	758.5	758.5
5°	707.6	707.6	714.2	720.3	730.5	740.7	750.3	752.4	760.0	767.1	769.6
7.5°	682.7	684.2	689.3	700.5	714.2	732.0	751.3	755.9	769.1	784.9	791.5
10°	671.0	672.0	678.6	690.3	707.6	732.0	759.0	767.6	787.9	812.8	822.0
12.5°	668.5	670.0	676.6	689.8	709.7	739.1	775.7	784.9	814.4	846.4	860.1
15°	673.1	674.1	680.7	694.9	716.8	751.8	798.1	810.8	845.9	883.0	900.8
17.5°	689.3	688.3	692.9	704.6	729.0	767.6	825.0	840.3	881.5	932.3	944.0
20°	758.5	751.8	747.8	737.6	747.3	790.0	857.6	879.9	930.8	982.6	990.8
22.5°	907.4	892.7	863.7	824.0	793.5	820.5	896.7	922.7	988.2	1039.1	1039.1
25°	1097.0	1078.2	1049.2	962.8	888.1	870.8	941.0	973.5	1050.8	1102.1	1085.3
27.5°	1334.4	1319.7	1263.2	1162.6	1048.2	958.7	992.3	1022.3	1106.2	1168.2	1133.1
30°	1527.6	1520.5	1474.2	1384.2	1258.2	1127.5	1087.9	1107.7	1179.9	1251.6	1215.5
32.5°	1690.8	1690.8	1643.5	1559.6	1441.7	1325.8	1250.0	1264.3	1333.4	1416.3	1349.2
35°	1870.2	1864.1	1826.0	1746.2	1614.0	1511.8	1480.8	1500.1	1562.7	1624.2	1459.0
37.5°	2058.8	2056.8	2017.1	1939.9	1832.1	1703.5	1630.8	1635.9	1667.9	1705.5	1587.6
40°	2263.7	2266.7	2214.9	2167.1	2065.4	1933.8	1794.5	1762.4	1792.4	1898.7	1825.0
42.5°	2505.6	2498.5	2476.2	2411.1	2329.2	2250.5	2083.2	2071.5	2097.9	2211.8	2132.0
45°	2786.8	2796.9	2758.3	2722.2	2667.3	2601.7	2461.9	2441.6	2470.6	2647.5	2534.1
47.5°	3068.4	3058.7	3083.6	3077.0	3106.5	3057.7	2934.2	2892.5	2962.1	3129.9	2963.2
50°	3282.9	3293.6	3345.4	3421.2	3547.8	3575.2	3456.8	3442.5	3473.5	3581.3	3347.0
52.5°	3422.2	3457.8	3539.1	3733.8	3962.1	4139.5	4049.5	4041.9	4029.2	4058.1	3714.0
55°	3513.2	3549.3	3655.5	3942.2	4335.2	4623.4	4628.0	4595.5	4511.6	4490.7	4057.1
57.5°	3457.3	3464.4	3615.9	3999.2	4542.1	4968.6	5118.0	5085.5	4930.5	4851.7	4360.1
60°	3107.5	3122.3	3333.2	3783.6	4452.1	5081.4	5442.9	5428.1	5258.3	5169.4	4596.0
62.5°	2487.9	2530.6	2747.6	3249.9	4033.7	4891.3	5574.5	5616.2	5484.1	5361.5	4670.2
63°	2374.0	2360.3	2589.5	3094.3	3922.9	4797.3	5576.6	5629.4	5494.2	5379.8	4649.9
65°	1757.4	1798.5	1947.5	2440.1	3264.6	4359.6	5451.0	5544.5	5456.6	5299.0	4424.7
67.5°	986.7	984.7	1149.4	1596.7	2285.0	3419.7	4928.9	5126.7	5108.4	4755.1	3667.7
70°	482.9	490.6	558.2	827.6	1325.3	2359.2	4095.8	4309.3	4315.9	3734.8	2536.1
72.5°	218.6	222.1	270.4	403.1	681.2	1256.1	2822.3	3026.2	2988.6	2380.1	1400.5
75°	115.4	123.0	148.9	202.8	328.4	518.0	1535.2	1732.4	1653.7	1087.4	515.5
77.5°	85.4	87.9	101.2	129.1	175.9	201.8	662.4	787.9	738.1	393.5	170.8
80°	62.5	64.6	75.2	91.5	110.8	102.7	249.6	286.2	256.7	133.7	52.4
82.5°	38.1	38.6	54.9	68.1	69.6	57.4	82.4	88.5	92.5	75.2	28.5
85°	13.7	17.3	37.1	49.3	41.2	29.0	34.6	38.1	41.7	47.8	16.8
87.5°	1.5	2.0	17.8	23.9	11.7	10.7	12.7	14.2	15.3	17.8	8.1
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°	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9	755.9
2.5°	760.5	762.5	761.0	758.5	757.9	756.4	753.4	753.4	753.4	754.4	753.4
5°	771.7	773.2	769.6	764.6	759.0	751.8	744.2	739.6	739.1	738.1	735.6
7.5°	793.0	795.1	786.9	774.7	759.5	742.2	725.9	710.7	703.6	698.0	698.0
10°	824.0	826.1	809.8	787.9	757.4	722.4	683.7	648.7	621.2	608.5	605.4
12.5°	861.1	862.2	835.2	797.1	746.8	679.2	596.8	520.0	466.7	442.3	439.7
15°	901.8	894.7	859.1	800.6	716.3	590.2	447.9	353.8	298.4	282.1	288.2
17.5°	943.0	929.8	877.4	795.1	647.6	447.9	300.9	241.5	224.2	219.6	219.6
20°	981.6	963.3	890.6	770.7	528.7	308.6	223.2	208.9	205.9	202.8	203.3
22.5°	1020.3	992.3	902.3	716.3	394.0	220.6	199.8	195.2	191.1	187.1	186.6
25°	1057.9	1019.2	906.9	615.6	268.4	189.6	182.5	176.4	168.3	163.7	162.7
27.5°	1097.0	1051.8	903.8	488.5	195.7	169.8	162.7	154.0	144.4	136.2	136.2
30°	1172.2	1113.8	893.2	351.3	164.7	149.5	140.3	126.6	115.9	107.8	107.3
32.5°	1274.9	1194.6	856.6	247.1	146.4	131.7	117.9	102.7	91.5	85.4	85.4
35°	1366.4	1276.0	787.9	182.0	131.7	114.4	97.6	82.9	74.2	70.2	68.6
37.5°	1505.7	1394.9	693.4	147.9	117.4	99.1	81.8	68.1	61.0	58.0	58.0
40°	1714.7	1540.3	577.5	129.6	103.7	84.4	68.1	57.4	51.9	48.3	48.3
42.5°	1973.9	1718.2	460.1	116.4	91.0	72.7	56.9	48.8	43.7	41.2	40.7
45°	2300.3	1905.8	354.3	104.2	80.8	62.0	48.3	41.2	36.1	34.6	35.1
47.5°	2640.9	2071.0	274.5	93.5	70.2	52.4	41.2	35.6	32.0	30.0	30.0
50°	2931.6	2184.9	208.4	81.3	62.0	44.2	36.1	32.0	29.0	28.0	27.5
52.5°	3174.6	2217.9	159.6	70.7	54.4	38.1	32.0	29.0	26.4	24.9	24.9
55°	3381.5	2188.9	125.1	59.5	45.8	33.0	28.5	25.9	22.9	21.4	20.8
57.5°	3502.5	2095.9	95.6	49.3	37.1	27.5	24.9	21.9	18.3	15.8	15.8
60°	3563.5	1960.7	73.2	40.7	28.5	21.9	20.3	16.3	12.7	10.7	10.2
62.5°	3490.3	1781.2	55.4	32.0	21.4	16.3	13.7	11.7	8.1	6.1	6.1
63°	3445.1	1729.4	53.4	30.5	19.8	15.3	12.7	10.7	7.1	5.6	5.1
65°	3140.6	1503.2	43.7	24.4	15.8	10.7	8.6	7.6	5.1	2.5	2.0
67.5°	2494.0	1149.9	34.6	18.3	11.2	7.6	5.1	4.6	1.5	0.0	0.0
70°	1686.2	742.7	26.9	13.2	7.6	4.6	2.5	2.0	0.5	0.0	0.0
72.5°	879.4	380.8	20.8	9.7	4.6	3.1	1.5	0.5	0.0	0.0	0.0
75°	311.1	129.6	15.3	6.1	3.1	1.5	0.5	0.0	0.0	0.0	0.0
77.5°	94.0	48.3	9.7	4.6	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	33.0	17.8	5.6	3.1	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	8.6	3.6	2.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	9.2	5.6	3.1	2.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.1	3.1	2.5	2.0	1.0	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)