

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: P458650

Luminaire Tested: **GALN-SA2A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458650
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-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 6290 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

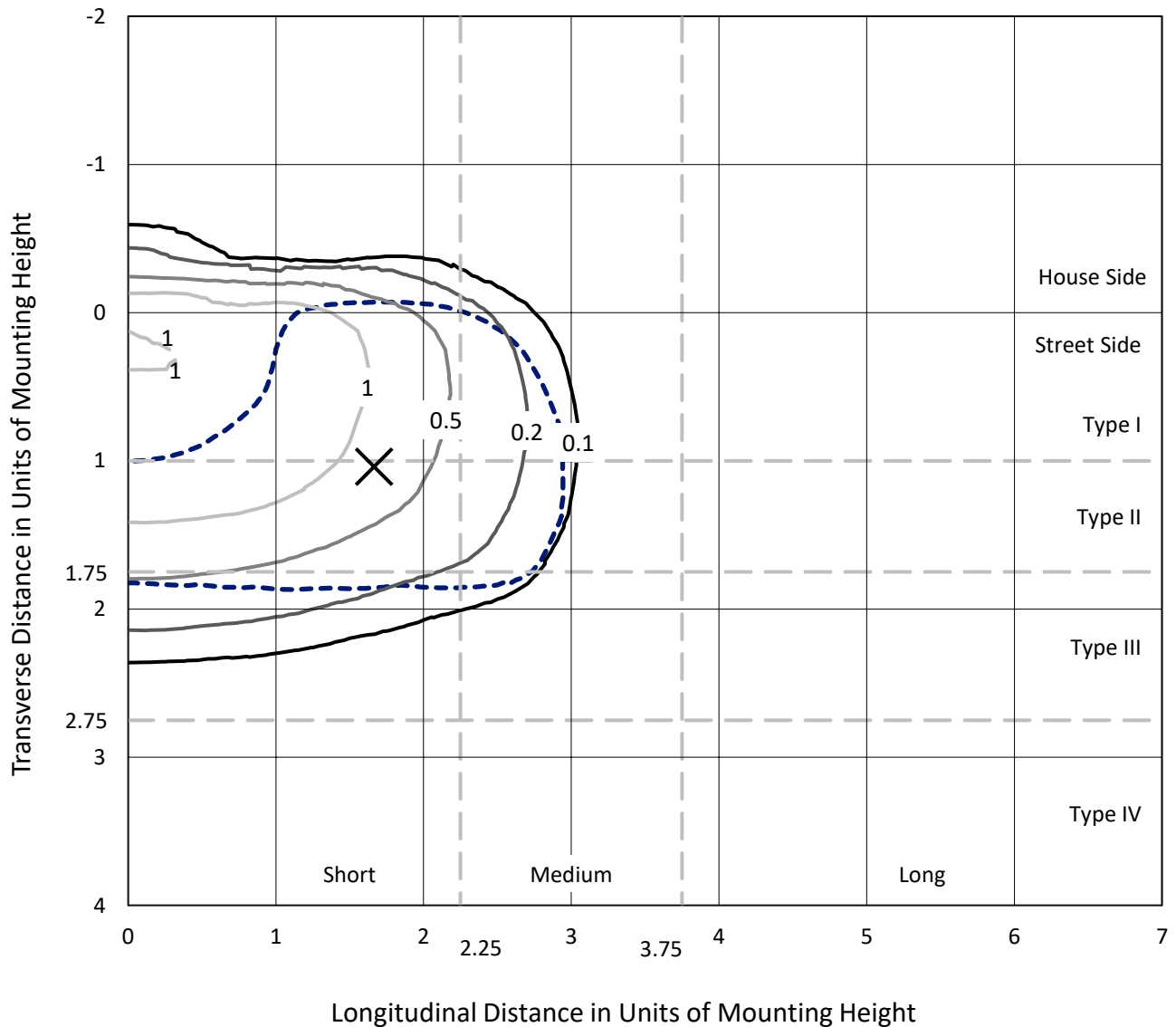
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

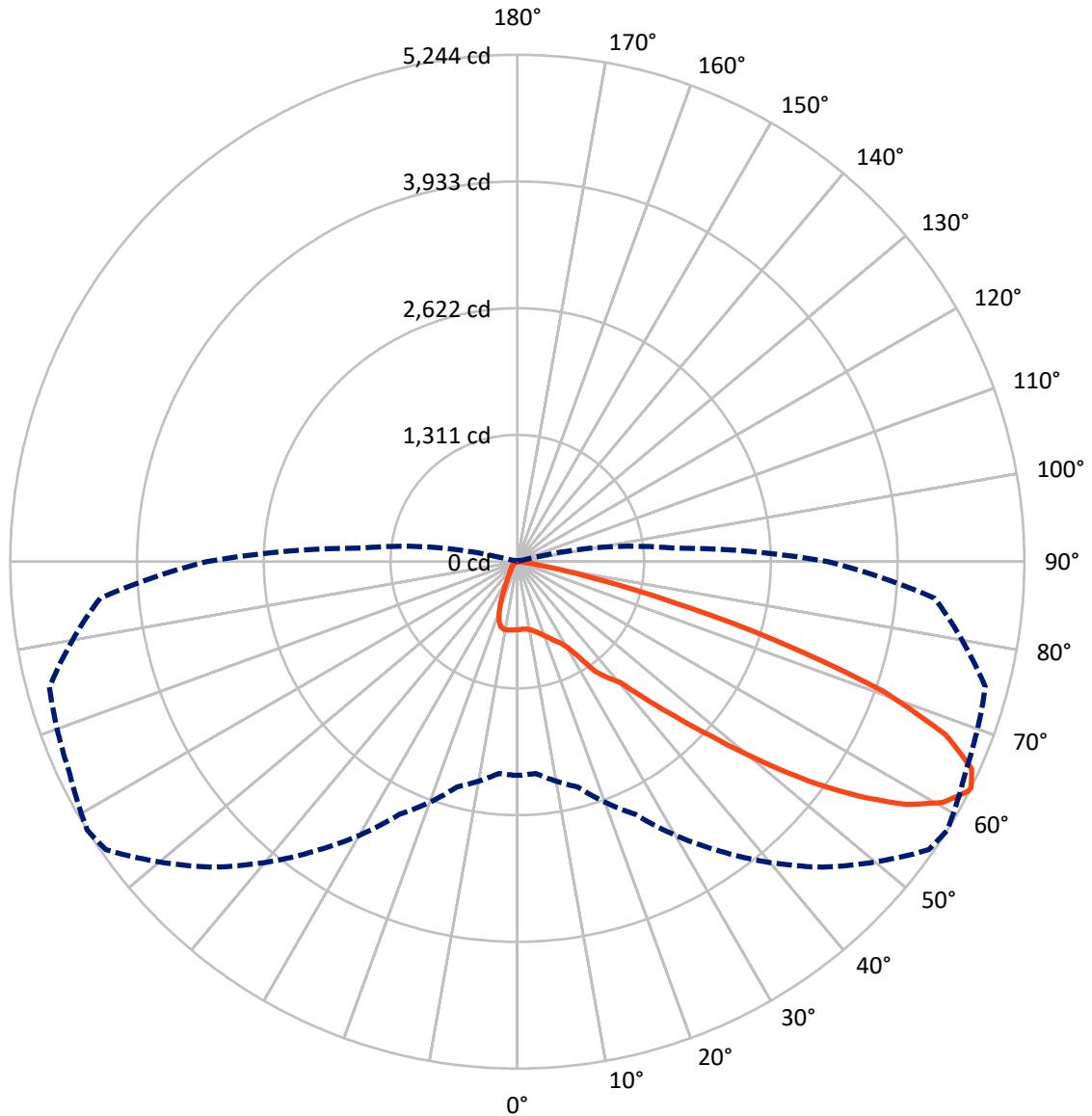
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	651.3	0.0	651.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5638.7	0.0	5638.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	6290.0	0.0	6290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.0
10°-20°	179.5	2.9
20°-30°	311.6	5.0
30°-40°	572.6	9.1
40°-50°	1078.0	17.1
50°-60°	1843.8	29.3
60°-70°	1765.4	28.1
70°-80°	450.2	7.2
80°-90°	23.0	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°	6290.0	100.0
0°-180°	6290.0	100.0

Coefficient of Utilization



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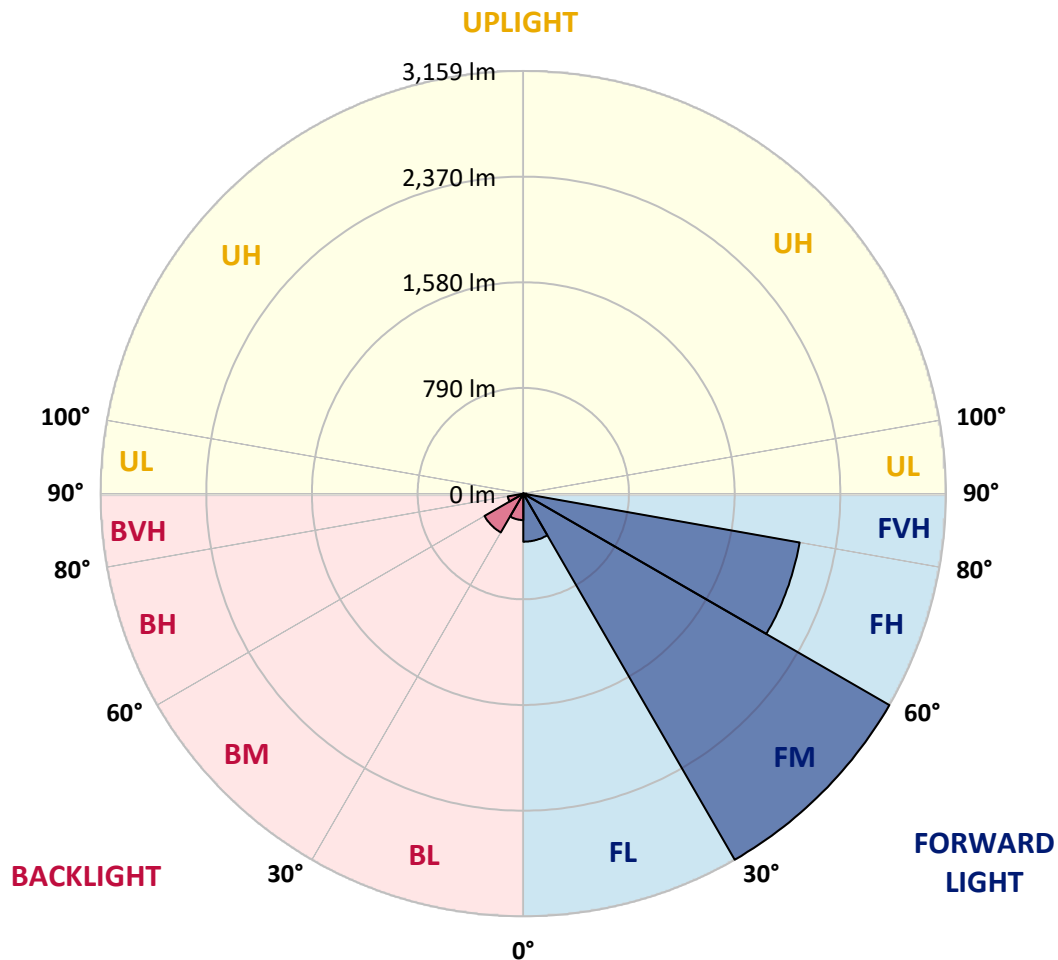
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.6	5.7			
FM	(30°-60°)	3159.3	50.2			
FH	(60°-80°)	2097.7	33.3			G2/5000
FVH	(80°-90°)	22.1	0.4			G1/100
BL	(0°-30°)	197.5	3.1	B1/500		
BM	(30°-60°)	335.0	5.3	B1/1000		
BH	(60°-80°)	117.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	686.7	689.0	691.4	692.4	695.7	699.0	701.3	700.9	704.7	706.6	706.6
5°	659.2	659.2	665.4	671.0	680.5	690.0	699.0	700.9	708.0	714.6	717.0
7.5°	636.0	637.4	642.2	652.6	665.4	681.9	699.9	704.2	716.5	731.2	737.3
10°	625.1	626.1	632.2	643.1	659.2	681.9	707.0	715.1	734.0	757.2	765.8
12.5°	622.7	624.2	630.3	642.6	661.1	688.6	722.7	731.2	758.6	788.5	801.3
15°	627.0	627.9	634.1	647.4	667.7	700.4	743.5	755.3	788.0	822.6	839.2
17.5°	642.2	641.2	645.5	656.4	679.1	715.1	768.6	782.8	821.2	868.5	879.4
20°	706.6	700.4	696.6	687.1	696.1	735.9	798.9	819.7	867.1	915.4	923.0
22.5°	845.3	831.6	804.6	767.6	739.2	764.3	835.4	859.5	920.6	968.0	968.0
25°	1022.0	1004.4	977.4	896.9	827.3	811.2	876.6	906.9	978.9	1026.7	1011.1
27.5°	1243.1	1229.4	1176.8	1083.0	976.5	893.1	924.4	952.3	1030.5	1088.3	1055.6
30°	1423.1	1416.4	1373.3	1289.5	1172.1	1050.4	1013.4	1031.9	1099.1	1165.9	1132.3
32.5°	1575.1	1575.1	1531.0	1452.9	1343.0	1235.1	1164.5	1177.8	1242.2	1319.3	1256.8
35°	1742.2	1736.6	1701.0	1626.7	1503.6	1408.4	1379.5	1397.5	1455.7	1513.0	1359.1
37.5°	1917.9	1916.0	1879.1	1807.1	1706.7	1586.9	1519.2	1523.9	1553.8	1588.8	1478.9
40°	2108.8	2111.6	2063.3	2018.8	1924.1	1801.4	1671.7	1641.8	1669.8	1768.8	1700.1
42.5°	2334.2	2327.6	2306.7	2246.1	2169.9	2096.5	1940.7	1929.8	1954.4	2060.5	1986.1
45°	2596.1	2605.5	2569.6	2535.9	2484.8	2423.7	2293.5	2274.5	2301.5	2466.3	2360.7
47.5°	2858.4	2849.4	2872.6	2866.5	2894.0	2848.5	2733.4	2694.6	2759.5	2915.7	2760.4
50°	3058.3	3068.2	3116.5	3187.1	3305.0	3330.6	3220.2	3207.0	3235.9	3336.3	3117.9
52.5°	3188.0	3221.2	3297.0	3478.3	3691.0	3856.2	3772.4	3765.3	3753.5	3780.5	3459.9
55°	3272.8	3306.4	3405.4	3672.5	4038.6	4307.1	4311.3	4281.0	4202.9	4183.5	3779.5
57.5°	3220.7	3227.3	3368.5	3725.5	4231.3	4628.6	4767.8	4737.5	4593.1	4519.7	4061.8
60°	2894.9	2908.6	3105.2	3524.7	4147.5	4733.7	5070.5	5056.7	4898.5	4815.7	4281.5
62.5°	2317.6	2357.4	2559.6	3027.5	3757.7	4556.6	5193.1	5231.9	5108.8	4994.7	4350.6
63°	2211.5	2198.8	2412.3	2882.6	3654.5	4469.0	5195.0	5244.2	5118.3	5011.7	4331.7
65°	1637.1	1675.5	1814.2	2273.1	3041.2	4061.3	5078.0	5165.2	5083.2	4936.4	4121.9
67.5°	919.2	917.3	1070.7	1487.5	2128.7	3185.7	4591.7	4775.9	4758.8	4429.7	3416.8
70°	449.9	457.0	520.0	771.0	1234.6	2197.8	3815.5	4014.4	4020.6	3479.3	2362.6
72.5°	203.6	206.9	251.9	375.5	634.6	1170.2	2629.2	2819.1	2784.1	2217.2	1304.7
75°	107.5	114.6	138.8	189.0	305.9	482.6	1430.2	1613.9	1540.5	1013.0	480.2
77.5°	79.6	81.9	94.2	120.3	163.9	188.0	617.1	734.0	687.6	366.5	159.1
80°	58.2	60.1	70.1	85.2	103.2	95.7	232.5	266.6	239.1	124.5	48.8
82.5°	35.5	36.0	51.1	63.5	64.9	53.5	76.7	82.4	86.2	70.1	26.5
85°	12.8	16.1	34.6	45.9	38.4	27.0	32.2	35.5	38.8	44.5	15.6
87.5°	1.4	1.9	16.6	22.3	10.9	9.9	11.8	13.3	14.2	16.6	7.6
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°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	708.5	710.3	708.9	706.6	706.1	704.7	701.8	701.8	701.8	702.8	701.8
5°	718.9	720.3	717.0	712.2	707.0	700.4	693.3	689.0	688.6	687.6	685.2
7.5°	738.8	740.7	733.1	721.7	707.5	691.4	676.2	662.0	655.4	650.2	650.2
10°	767.6	769.5	754.4	734.0	705.6	672.9	636.9	604.3	578.7	566.9	564.0
12.5°	802.2	803.2	778.1	742.5	695.7	632.7	556.0	484.5	434.7	412.0	409.6
15°	840.1	833.5	800.3	745.9	667.3	549.8	417.2	329.6	278.0	262.8	268.5
17.5°	878.5	866.1	817.4	740.7	603.3	417.2	280.3	224.9	208.8	204.6	204.6
20°	914.5	897.4	829.7	717.9	492.5	287.5	207.9	194.6	191.8	189.0	189.4
22.5°	950.4	924.4	840.6	667.3	367.0	205.5	186.1	181.8	178.1	174.3	173.8
25°	985.5	949.5	844.8	573.5	250.0	176.6	170.0	164.3	156.7	152.5	151.5
27.5°	1022.0	979.8	842.0	455.1	182.3	158.2	151.5	143.5	134.5	126.9	126.9
30°	1092.0	1037.6	832.1	327.2	153.4	139.2	130.7	117.9	108.0	100.4	99.9
32.5°	1187.7	1112.9	798.0	230.2	136.4	122.7	109.9	95.7	85.2	79.6	79.6
35°	1272.9	1188.6	734.0	169.5	122.7	106.6	90.9	77.2	69.1	65.4	63.9
37.5°	1402.7	1299.5	645.9	137.8	109.4	92.3	76.2	63.5	56.8	54.0	54.0
40°	1597.3	1434.9	538.0	120.8	96.6	78.6	63.5	53.5	48.3	45.0	45.0
42.5°	1838.8	1600.6	428.6	108.4	84.8	67.7	53.0	45.5	40.7	38.4	37.9
45°	2142.9	1775.4	330.1	97.1	75.3	57.8	45.0	38.4	33.6	32.2	32.7
47.5°	2460.2	1929.3	255.7	87.1	65.4	48.8	38.4	33.1	29.8	27.9	27.9
50°	2731.0	2035.4	194.2	75.8	57.8	41.2	33.6	29.8	27.0	26.0	25.6
52.5°	2957.4	2066.2	148.7	65.8	50.7	35.5	29.8	27.0	24.6	23.2	23.2
55°	3150.1	2039.2	116.5	55.4	42.6	30.8	26.5	24.2	21.3	19.9	19.4
57.5°	3262.9	1952.5	89.0	45.9	34.6	25.6	23.2	20.4	17.0	14.7	14.7
60°	3319.7	1826.5	68.2	37.9	26.5	20.4	18.9	15.2	11.8	9.9	9.5
62.5°	3251.5	1659.4	51.6	29.8	19.9	15.2	12.8	10.9	7.6	5.7	5.7
63°	3209.3	1611.1	49.7	28.4	18.5	14.2	11.8	9.9	6.6	5.2	4.7
65°	2925.7	1400.3	40.7	22.7	14.7	9.9	8.1	7.1	4.7	2.4	1.9
67.5°	2323.3	1071.2	32.2	17.0	10.4	7.1	4.7	4.3	1.4	0.0	0.0
70°	1570.8	691.9	25.1	12.3	7.1	4.3	2.4	1.9	0.5	0.0	0.0
72.5°	819.3	354.7	19.4	9.0	4.3	2.8	1.4	0.5	0.0	0.0	0.0
75°	289.8	120.8	14.2	5.7	2.8	1.4	0.5	0.0	0.0	0.0	0.0
77.5°	87.6	45.0	9.0	4.3	1.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	30.8	16.6	5.2	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	15.2	8.1	3.3	2.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.5	5.2	2.8	2.4	1.4	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.8	2.8	2.4	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)