

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: P450225

Luminaire Tested: **GALN-SA1A-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3449 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

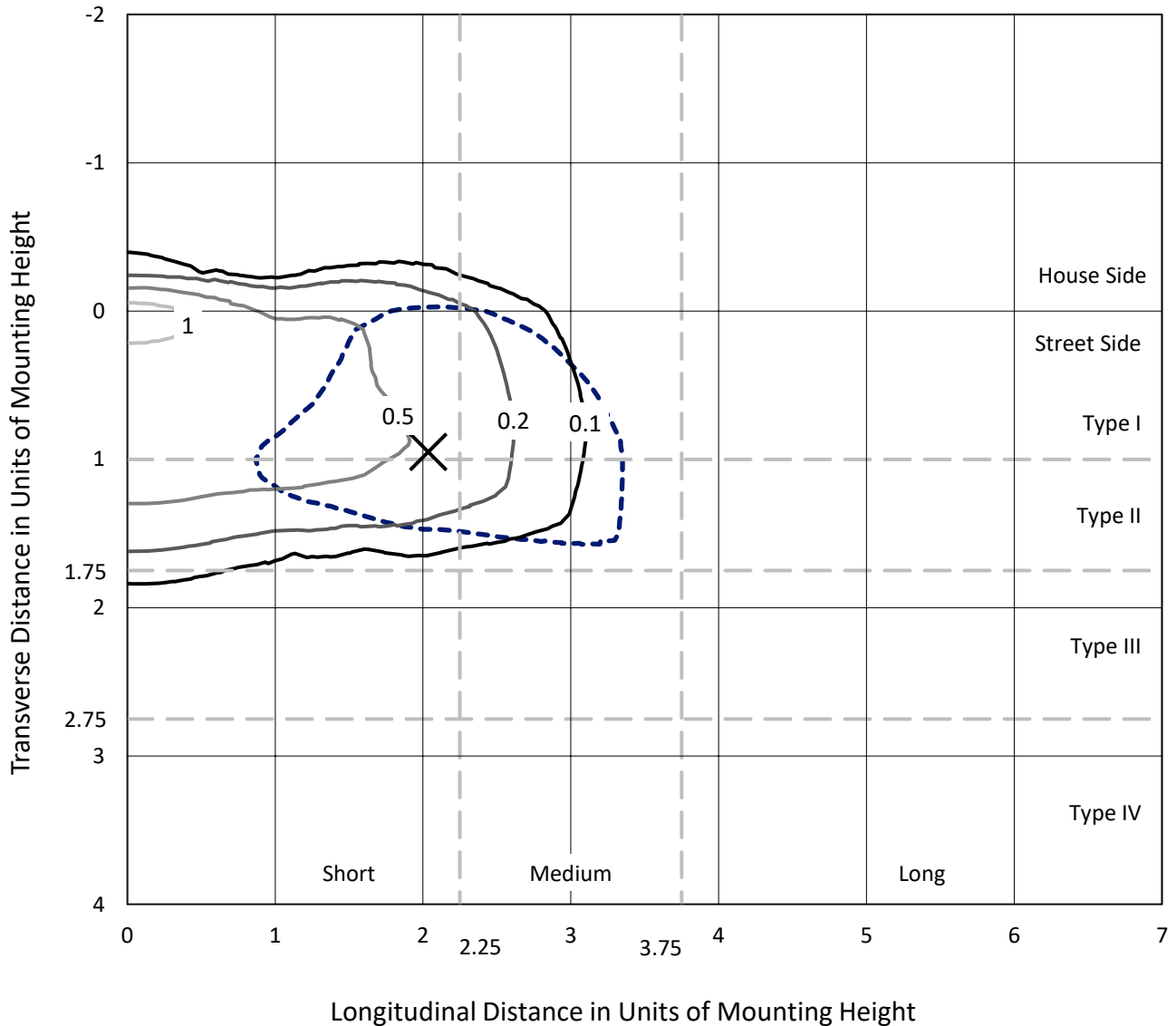
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

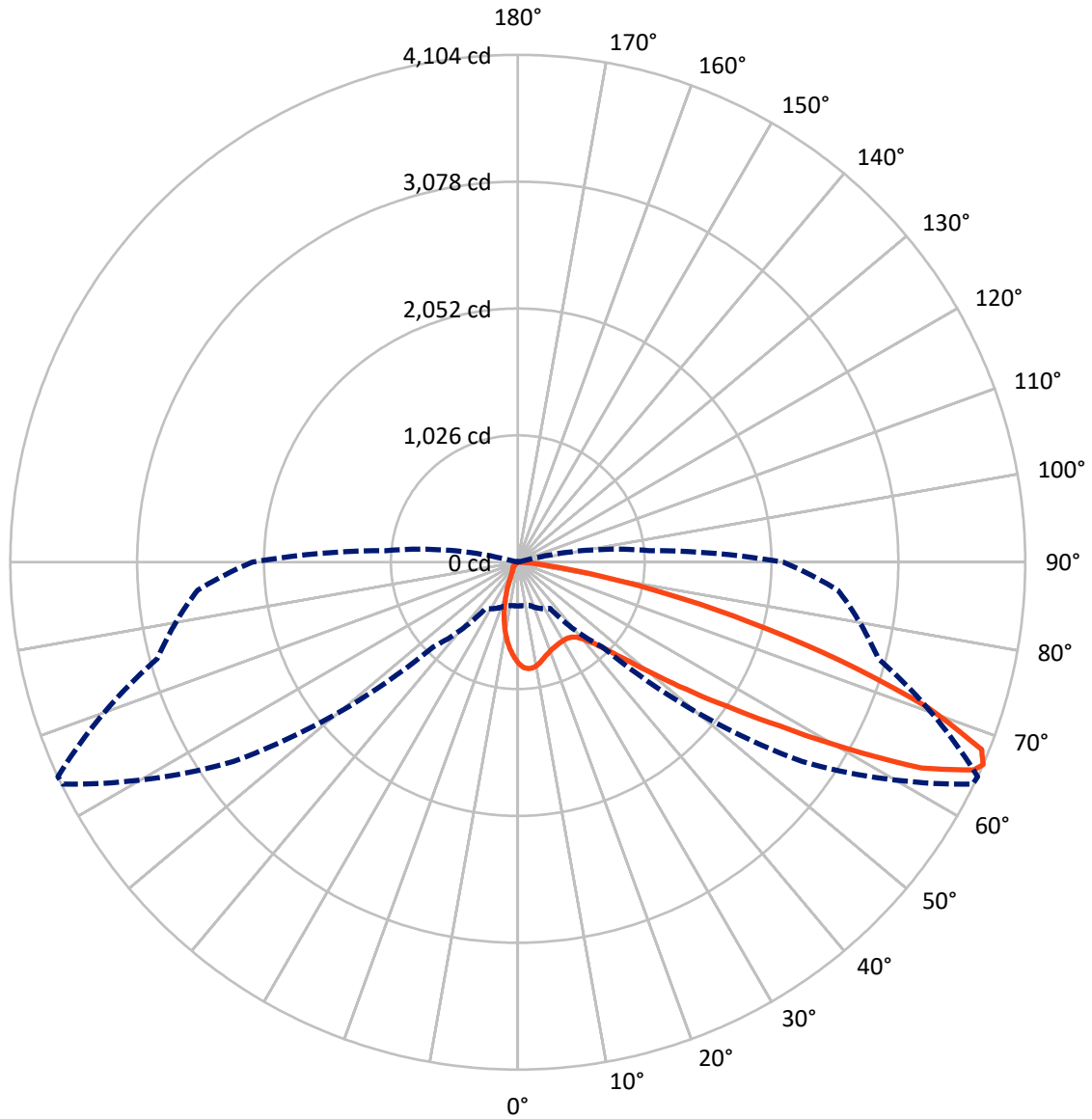
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	356.7	0.0	356.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3092.3	0.0	3092.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	3449.0	0.0	3449.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.9	1.9
10°-20°	145.7	4.2
20°-30°	208.8	6.1
30°-40°	304.9	8.8
40°-50°	511.3	14.8
50°-60°	853.3	24.7
60°-70°	905.8	26.3
70°-80°	410.2	11.9
80°-90°	42.0	1.2
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°	3449.0	100.0
0°-180°	3449.0	100.0

**Coefficient of Utilization**

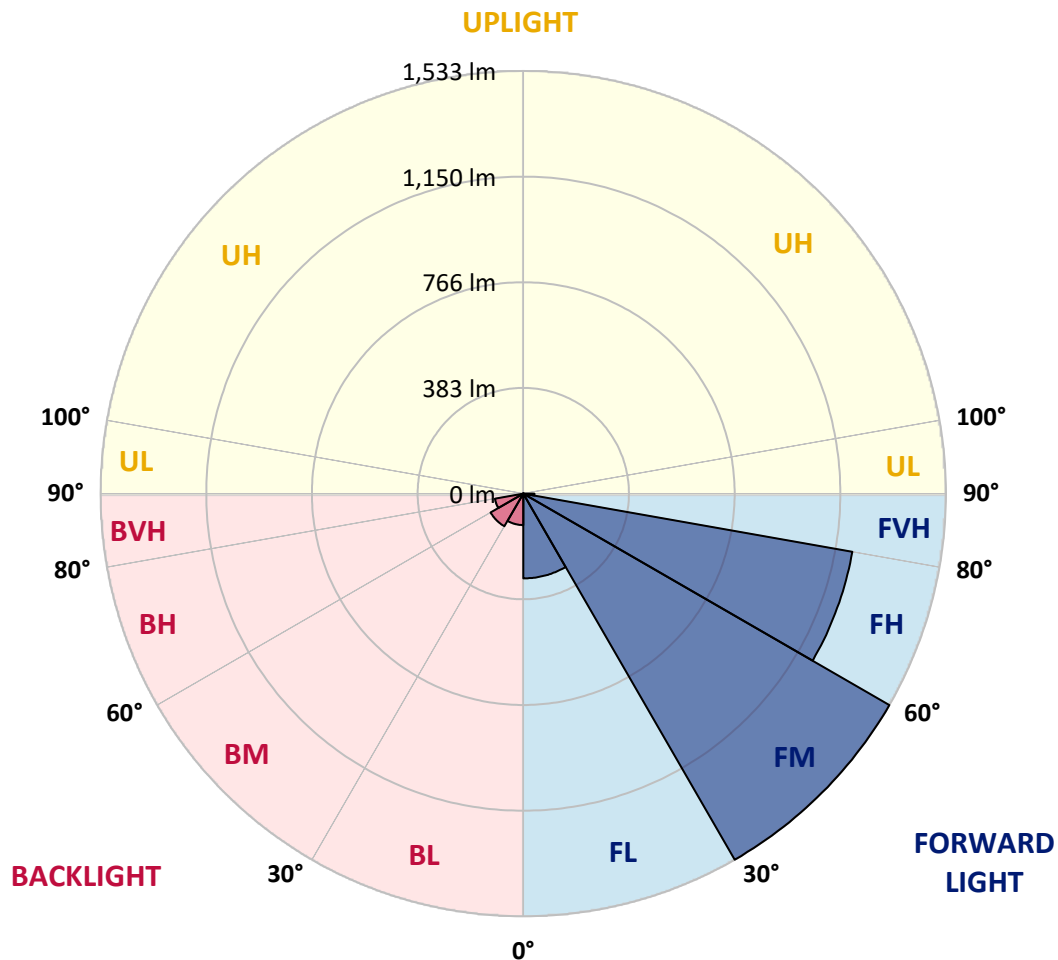


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.3	8.9			
FM (30°-60°)	1532.8	44.4			
FH (60°-80°)	1211.6	35.1			G1/1800
FVH (80°-90°)	40.6	1.2			G1/100
BL (0°-30°)	114.1	3.3	B1/500		
BM (30°-60°)	136.8	4.0	B0/220		
BH (60°-80°)	104.5	3.0	B0/110		G0/110
BVH (80°-90°)	1.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9
2.5°	861.9	862.8	864.0	865.6	866.8	863.3	858.4	852.8	851.7	839.8	825.3
5°	815.8	817.2	827.4	833.0	845.6	857.0	864.2	865.2	864.7	853.5	830.5
7.5°	750.1	754.1	764.1	773.9	797.4	819.0	844.7	862.6	863.8	860.7	832.1
10°	696.8	699.3	704.4	723.8	743.3	776.4	812.3	846.1	848.9	861.0	830.7
12.5°	655.1	658.8	665.1	680.0	703.5	734.7	775.5	820.9	826.7	856.6	826.7
15°	625.9	627.8	634.1	648.8	671.6	700.5	741.7	794.6	799.7	850.7	826.0
17.5°	612.2	614.3	618.7	630.4	649.2	676.0	716.3	773.4	779.9	847.0	828.6
20°	615.9	617.8	618.0	624.1	636.9	659.5	697.7	753.6	762.0	844.7	832.8
22.5°	637.1	637.3	634.6	631.8	636.2	652.5	686.3	741.0	749.6	844.2	837.7
25°	668.8	669.5	664.8	655.1	646.2	654.6	683.7	732.9	740.5	843.0	840.7
27.5°	712.6	712.4	711.0	694.7	669.5	663.9	685.8	728.4	735.0	839.8	841.9
30°	773.9	772.0	769.0	750.6	712.1	686.5	694.7	725.6	731.7	835.1	838.9
32.5°	834.2	841.2	840.7	823.2	775.3	726.8	713.1	729.4	733.8	832.1	834.4
35°	904.5	904.3	922.2	915.7	859.6	778.3	744.5	741.7	745.2	834.2	832.3
37.5°	969.8	975.8	1003.8	1010.5	959.3	851.0	789.0	768.3	769.4	848.4	837.5
40°	1051.1	1062.7	1104.4	1127.0	1081.8	958.8	854.7	817.0	817.2	883.3	856.8
42.5°	1155.9	1174.3	1213.2	1250.9	1226.7	1086.5	953.2	894.1	893.6	944.8	901.0
45°	1283.3	1296.1	1340.4	1400.3	1384.9	1264.7	1096.7	1013.6	1007.5	1045.7	979.6
47.5°	1393.3	1410.7	1455.7	1524.0	1593.8	1482.3	1268.2	1177.8	1173.8	1206.2	1114.2
50°	1441.3	1456.6	1503.9	1599.7	1769.0	1767.9	1523.5	1417.5	1410.7	1428.2	1322.5
52.5°	1388.6	1403.1	1450.8	1570.1	1851.5	2115.9	1893.4	1718.2	1710.1	1687.7	1571.2
55°	1208.3	1220.2	1290.8	1427.7	1819.8	2347.9	2403.1	2089.8	2058.1	1971.2	1852.9
57.5°	962.1	956.0	999.8	1158.9	1633.9	2425.7	2926.3	2552.7	2496.1	2216.3	2091.2
60°	666.7	685.3	703.0	807.9	1228.6	2290.8	3251.7	3134.6	3060.0	2457.4	2319.5
62.5°	490.1	502.5	514.1	562.6	772.5	1829.1	3309.3	3732.3	3666.2	2713.4	2537.3
65°	387.6	388.6	393.2	441.0	509.0	1189.4	3032.8	4069.4	4052.4	2959.9	2625.6
66°	353.2	353.4	360.6	411.9	456.8	968.6	2811.2	4095.0	4104.3	3019.0	2599.7
67.5°	308.7	307.7	318.2	370.2	416.0	698.4	2414.8	3991.1	4046.3	3064.4	2506.8
70°	239.2	238.1	250.9	310.5	383.2	465.9	1605.0	3426.9	3515.9	2971.5	2217.9
72.5°	159.3	160.3	182.2	245.1	365.7	410.2	965.6	2606.9	2732.7	2453.9	1744.8
75°	92.9	94.6	119.5	182.2	317.5	391.1	546.5	1858.9	1939.3	1694.5	1086.9
77.5°	48.7	49.4	66.9	120.2	243.4	363.2	364.1	1187.6	1225.3	823.5	430.3
80°	25.9	25.2	35.9	72.4	167.5	318.9	295.4	628.7	653.7	244.6	108.8
82.5°	9.8	10.7	19.1	47.5	99.0	229.0	254.4	277.9	269.3	53.8	45.7
85°	1.9	2.3	8.2	28.2	49.9	95.7	187.5	136.3	126.3	20.3	26.3
87.5°	0.2	0.5	2.3	6.8	7.2	32.4	55.4	37.7	32.6	7.5	10.9
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°	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9	817.9
2.5°	818.4	812.1	791.1	770.4	749.2	730.1	717.0	695.8	690.5	682.8	678.3
5°	816.7	802.0	761.7	717.7	676.7	632.5	598.7	566.1	548.6	539.7	536.5
7.5°	812.1	788.8	725.9	656.9	591.2	525.1	467.5	423.7	395.5	376.2	363.2
10°	802.7	770.6	684.2	589.4	490.1	402.8	329.9	274.4	231.6	218.0	218.5
12.5°	793.2	750.3	637.6	514.4	391.4	281.2	203.8	160.0	139.5	132.8	131.4
15°	784.3	731.0	591.9	441.7	291.4	182.2	131.4	116.0	110.4	109.3	109.0
17.5°	779.7	713.1	543.2	358.5	203.4	123.7	105.3	101.1	99.5	98.3	97.8
20°	775.7	697.5	496.6	280.7	139.1	101.3	94.3	90.4	87.6	86.4	85.7
22.5°	772.9	681.4	448.4	217.3	106.5	89.9	83.6	78.5	74.5	73.1	72.2
25°	768.7	663.7	399.7	158.9	89.7	79.9	72.7	66.6	61.5	58.9	58.5
27.5°	762.7	643.6	346.4	117.6	80.1	71.0	62.2	54.7	49.6	46.8	47.1
30°	752.9	622.7	293.1	93.4	72.4	62.0	52.4	45.2	40.3	38.2	38.0
32.5°	741.2	597.3	244.1	80.1	65.5	53.8	43.8	37.5	33.8	32.1	31.9
35°	730.3	571.7	194.3	72.0	58.2	46.4	36.8	31.4	28.7	27.3	27.5
37.5°	724.2	548.8	151.4	65.5	52.4	39.8	31.7	27.0	24.5	23.3	23.1
40°	728.2	530.2	120.4	59.6	45.9	34.2	27.3	23.3	20.7	19.1	19.1
42.5°	746.8	522.0	97.1	54.0	39.8	29.6	23.8	20.0	17.2	15.6	15.8
45°	803.7	530.7	81.3	48.9	34.2	25.6	20.5	16.5	14.0	12.8	12.6
47.5°	898.0	563.0	70.4	43.6	29.4	21.9	17.2	13.7	11.2	10.2	10.0
50°	1062.9	629.9	62.2	38.2	24.9	18.6	14.2	10.9	8.9	7.9	7.9
52.5°	1289.8	775.7	56.4	32.1	21.0	15.8	11.6	8.9	7.0	6.3	6.1
55°	1527.0	929.5	53.3	27.0	17.5	13.0	9.3	7.0	5.4	4.7	4.4
57.5°	1755.0	1050.1	49.9	21.9	14.0	10.0	7.2	5.4	3.7	3.3	3.0
60°	1973.8	1147.7	42.4	17.5	10.9	7.2	5.4	3.7	2.6	2.1	2.1
62.5°	2169.5	1204.6	33.3	14.0	8.4	5.1	3.5	2.8	1.9	1.4	1.4
65°	2192.3	1130.7	25.2	10.7	6.1	3.3	2.1	2.1	1.4	0.9	0.9
66°	2146.4	1068.1	22.1	9.8	5.4	2.8	1.9	1.6	1.2	0.7	0.7
67.5°	2043.9	961.1	19.1	8.4	4.4	2.1	1.4	1.4	0.9	0.5	0.5
70°	1766.0	785.0	15.1	6.3	3.3	1.6	0.9	0.9	0.7	0.5	0.5
72.5°	1346.0	586.1	12.3	4.7	2.3	1.2	0.7	0.7	0.7	0.5	0.5
75°	811.8	315.6	9.6	3.5	2.1	0.9	0.5	0.7	0.9	0.7	0.5
77.5°	299.1	107.4	7.5	2.8	1.6	0.9	0.5	0.5	0.9	0.7	0.7
80°	73.4	28.0	5.4	2.3	1.6	0.9	0.5	0.5	0.9	0.9	0.9
82.5°	34.0	11.9	3.7	2.1	1.6	0.9	0.5	0.5	0.7	0.9	0.9
85°	19.6	5.6	3.0	2.3	1.6	0.9	0.5	0.5	0.7	0.9	0.9
87.5°	7.9	2.8	2.8	2.3	1.9	1.2	0.5	0.5	0.5	0.7	0.7
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)