

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: P450198

Luminaire Tested: **GALN-SA1A-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3201 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

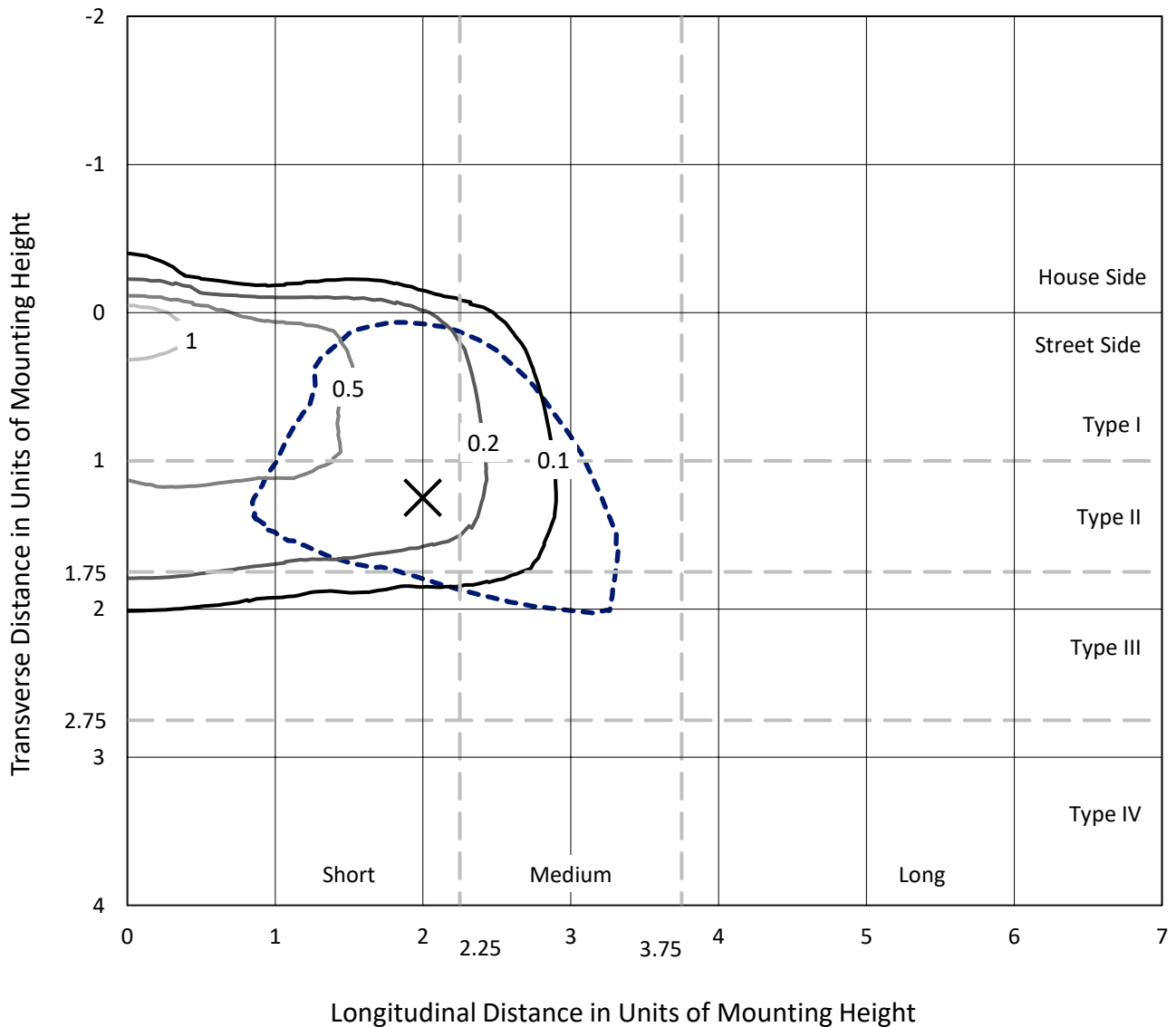
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

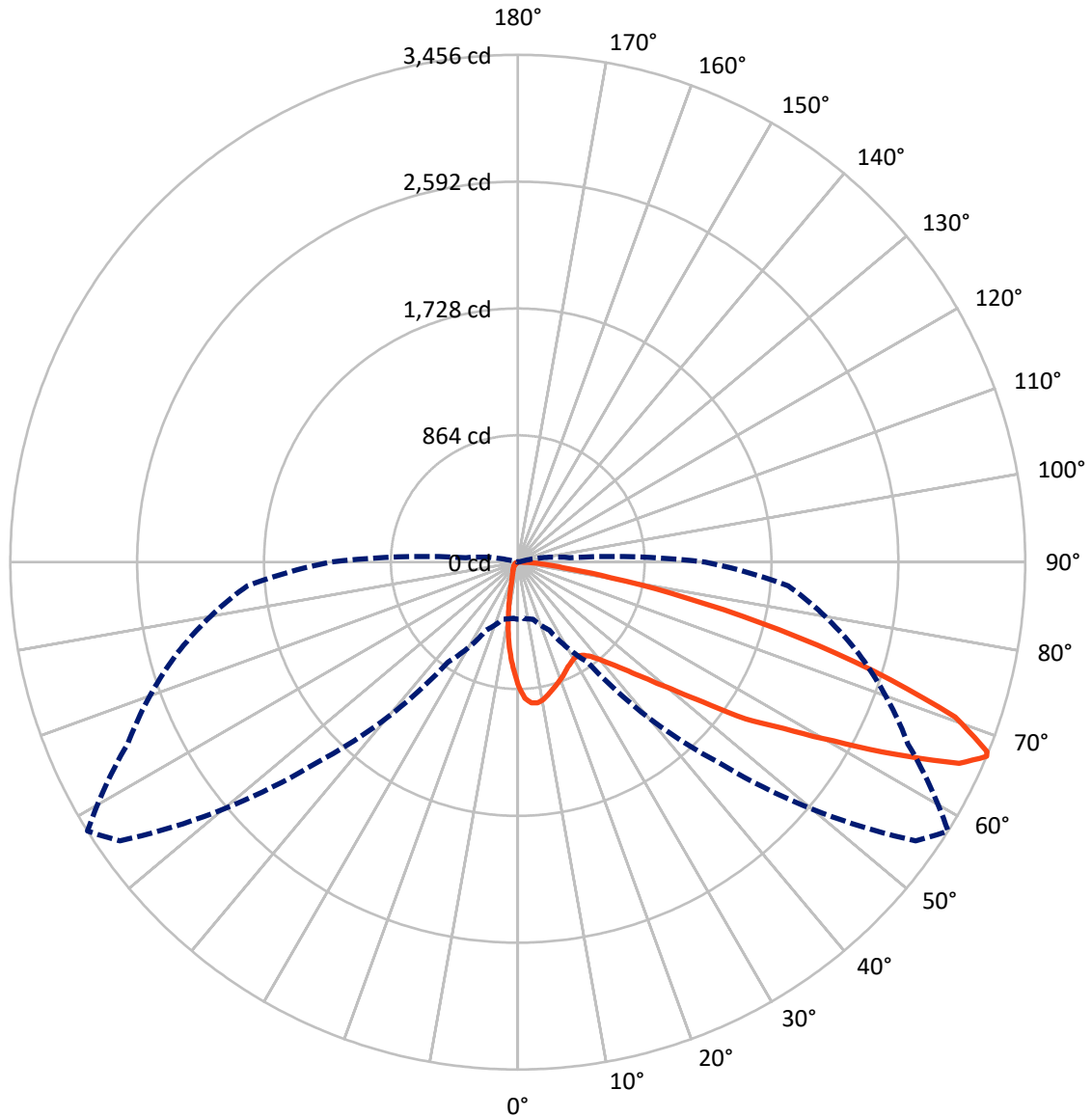
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	231.0	0.0	231.0
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2970.0	0.0	2970.0
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3201.0	0.0	3201.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.9	2.2
10°-20°	148.7	4.6
20°-30°	201.5	6.3
30°-40°	279.5	8.7
40°-50°	445.8	13.9
50°-60°	770.6	24.1
60°-70°	880.2	27.5
70°-80°	367.0	11.5
80°-90°	38.9	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°	3201.0	100.0
0°-180°	3201.0	100.0

**Coefficient of Utilization**



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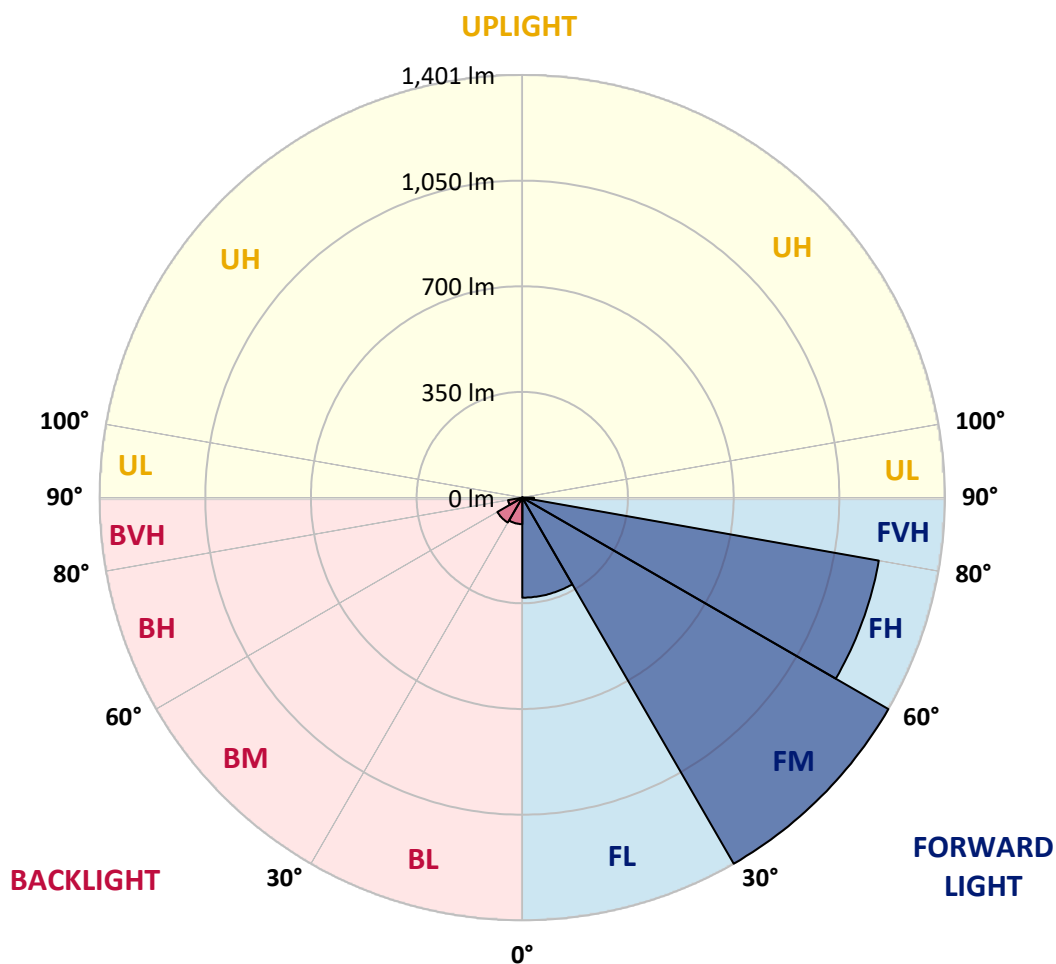
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.4	10.4			
FM	(30°-60°)	1400.6	43.8			
FH	(60°-80°)	1199.4	37.5			G1/1800
FVH	(80°-90°)	38.6	1.2			G1/100
BL	(0°-30°)	87.7	2.7	B0/110		
BM	(30°-60°)	95.3	3.0	B0/220		
BH	(60°-80°)	47.8	1.5	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6
2.5°	984.8	986.3	980.7	976.3	964.7	952.3	935.8	927.1	912.1	886.2	857.5
5°	1007.9	1009.8	1009.0	1007.9	1003.4	991.4	970.5	962.8	940.7	898.6	846.8
7.5°	956.6	963.6	964.5	972.8	980.7	981.8	973.9	968.1	947.8	898.4	827.8
10°	888.6	893.3	900.1	909.7	928.8	944.6	952.3	951.4	939.7	891.8	805.6
12.5°	819.9	822.5	832.9	849.4	872.7	899.7	920.2	924.3	924.5	883.8	787.0
15°	760.9	759.8	767.9	787.0	819.7	853.5	890.3	896.7	907.0	876.1	769.6
17.5°	710.4	715.9	717.2	738.2	768.3	812.2	859.0	870.4	890.9	869.5	755.3
20°	679.1	682.1	684.9	696.7	723.8	770.1	829.7	845.3	875.9	863.5	739.3
22.5°	669.9	671.9	669.5	673.2	692.4	733.5	797.9	818.6	861.6	858.0	726.2
25°	677.0	678.9	673.4	669.1	675.7	703.7	767.1	792.3	850.1	856.9	716.4
27.5°	694.1	697.8	690.1	682.4	678.5	687.7	742.9	772.2	842.1	862.0	711.9
30°	720.9	723.0	717.2	707.8	699.0	689.8	730.3	758.3	840.0	874.0	711.4
32.5°	749.9	754.4	751.2	745.0	733.7	711.9	733.9	758.7	845.1	891.3	716.8
35°	785.9	791.0	794.0	792.7	778.2	751.0	757.0	778.0	858.8	923.2	731.3
37.5°	821.2	825.7	842.6	848.3	835.5	809.8	801.9	815.8	889.0	964.9	757.6
40°	861.6	867.6	891.3	913.4	907.2	880.2	865.7	877.2	935.2	1027.8	807.5
42.5°	900.3	911.0	947.2	986.1	991.9	961.7	952.1	955.9	1003.6	1118.3	877.0
45°	955.3	965.3	1012.0	1064.8	1092.0	1068.4	1058.6	1058.0	1097.5	1245.6	989.7
47.5°	1034.7	1043.6	1098.6	1150.8	1199.1	1202.4	1183.7	1190.2	1215.6	1394.4	1127.9
50°	1132.0	1153.2	1189.3	1243.6	1308.2	1360.4	1366.2	1357.6	1379.5	1566.8	1293.9
52.5°	1273.4	1281.5	1314.7	1359.4	1435.1	1523.6	1592.3	1580.5	1573.7	1731.1	1461.6
55°	1378.8	1389.7	1441.3	1502.7	1613.7	1730.5	1879.4	1883.4	1797.0	1889.0	1625.7
57.5°	1347.0	1363.6	1441.7	1565.1	1809.2	2022.7	2133.5	2136.3	2003.6	2042.4	1810.9
60°	1183.3	1191.2	1303.1	1467.8	1825.9	2339.3	2493.9	2471.4	2213.9	2213.9	1974.5
62.5°	839.1	851.6	942.2	1184.6	1649.0	2449.2	2925.6	2879.1	2503.5	2378.0	2072.1
65°	536.3	524.3	584.4	747.8	1228.4	2286.8	3301.4	3304.2	2776.0	2443.6	2018.8
67°	388.4	383.7	401.1	511.2	832.9	1922.4	3309.3	3455.8	2932.6	2402.1	1848.6
67.5°	355.3	358.9	371.6	461.2	756.8	1749.3	3273.4	3446.8	2967.9	2377.1	1787.0
70°	269.3	263.1	276.8	326.2	453.7	1103.5	2815.8	3161.3	2924.1	2128.8	1427.8
72.5°	198.1	197.4	216.5	266.7	349.3	587.8	2113.8	2534.8	2388.9	1621.0	899.0
75°	133.7	139.7	170.1	222.9	316.6	381.2	1441.1	1838.9	1658.4	920.4	367.5
77.5°	76.1	76.6	109.5	179.0	284.3	306.7	853.9	1171.6	877.9	306.1	109.1
80°	32.9	36.1	54.3	130.1	235.7	271.7	489.6	643.8	355.1	64.8	35.3
82.5°	12.2	14.3	24.0	80.0	172.0	223.7	295.8	307.4	120.4	22.9	22.0
85°	0.0	0.4	8.8	37.4	89.6	99.9	197.6	182.2	53.3	10.9	14.3
87.5°	0.0	0.0	0.0	3.9	11.8	37.2	61.4	68.4	12.8	3.9	3.4
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6	848.6
2.5°	842.1	828.2	793.4	758.5	732.6	711.0	678.5	660.7	651.3	637.4	638.3
5°	821.0	792.7	731.3	667.8	616.5	566.4	506.5	482.4	462.0	450.5	442.8
7.5°	789.5	747.8	656.9	572.2	493.3	405.8	340.1	296.3	266.7	255.8	245.3
10°	755.1	699.7	581.4	464.0	354.4	264.2	208.6	168.3	154.0	140.7	142.0
12.5°	723.2	655.8	512.1	366.2	248.3	167.9	130.9	114.4	109.7	108.2	108.2
15°	697.1	613.9	437.6	275.3	170.3	120.6	104.8	100.3	98.6	98.2	98.2
17.5°	669.3	574.1	370.5	203.4	123.9	101.0	95.6	92.6	92.0	91.6	91.6
20°	644.5	534.1	306.7	151.4	100.1	90.9	87.5	85.6	84.9	84.5	84.7
22.5°	621.0	498.6	246.8	114.4	88.1	82.8	79.4	77.4	76.1	75.1	75.3
25°	600.0	464.4	198.5	93.7	79.4	74.7	71.2	68.4	65.7	64.4	64.2
27.5°	585.2	434.4	154.7	80.2	71.4	66.3	62.0	58.6	55.0	53.0	52.6
30°	573.0	404.1	122.4	70.8	63.5	58.6	53.3	48.3	44.5	42.6	41.7
32.5°	565.1	375.2	96.5	63.1	56.9	50.9	44.9	40.0	35.7	33.8	33.4
35°	563.8	351.0	78.9	56.7	50.9	44.5	38.3	32.9	29.3	27.4	27.0
37.5°	573.0	332.4	66.1	51.6	46.0	38.9	32.1	27.2	24.0	22.5	22.2
40°	597.6	320.6	57.3	47.3	41.5	33.8	27.4	23.1	19.9	18.4	18.4
42.5°	644.5	321.1	51.6	43.2	37.0	28.9	23.3	19.3	16.5	15.2	14.8
45°	717.6	335.6	46.6	39.1	32.7	25.0	19.9	15.8	13.0	12.0	12.0
47.5°	815.6	364.5	42.4	35.1	28.9	21.4	16.9	12.8	10.5	9.4	9.4
50°	943.7	410.9	38.7	31.7	25.7	18.4	13.7	10.5	8.1	7.3	7.1
52.5°	1077.6	468.2	34.4	28.7	22.0	15.6	11.1	8.1	6.2	5.6	5.3
55°	1225.5	524.3	30.4	25.7	18.0	13.0	8.8	6.4	4.5	3.9	3.9
57.5°	1374.5	579.3	25.5	21.4	14.1	9.6	6.8	4.7	3.0	2.4	2.4
60°	1500.7	597.0	21.6	17.3	10.7	6.8	4.9	3.0	1.7	1.1	1.1
62.5°	1518.1	537.1	18.2	13.3	7.7	4.7	2.6	1.7	0.6	0.4	0.4
65°	1424.0	436.4	15.2	10.1	5.1	2.4	1.1	0.6	0.2	0.0	0.0
67°	1275.9	353.8	12.4	7.5	3.6	1.5	0.6	0.2	0.0	0.0	0.0
67.5°	1238.1	337.3	12.0	7.1	3.2	1.3	0.4	0.2	0.0	0.0	0.0
70°	971.6	252.6	8.6	4.3	1.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	603.8	142.9	6.2	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
75°	228.2	50.1	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	71.0	19.0	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.0	7.3	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	3.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.2	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.4	0.2	0.0	0.0	0.0	0.0	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)