

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: P450227

Luminaire Tested: **GALN-SA1A-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450227  
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-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3486 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

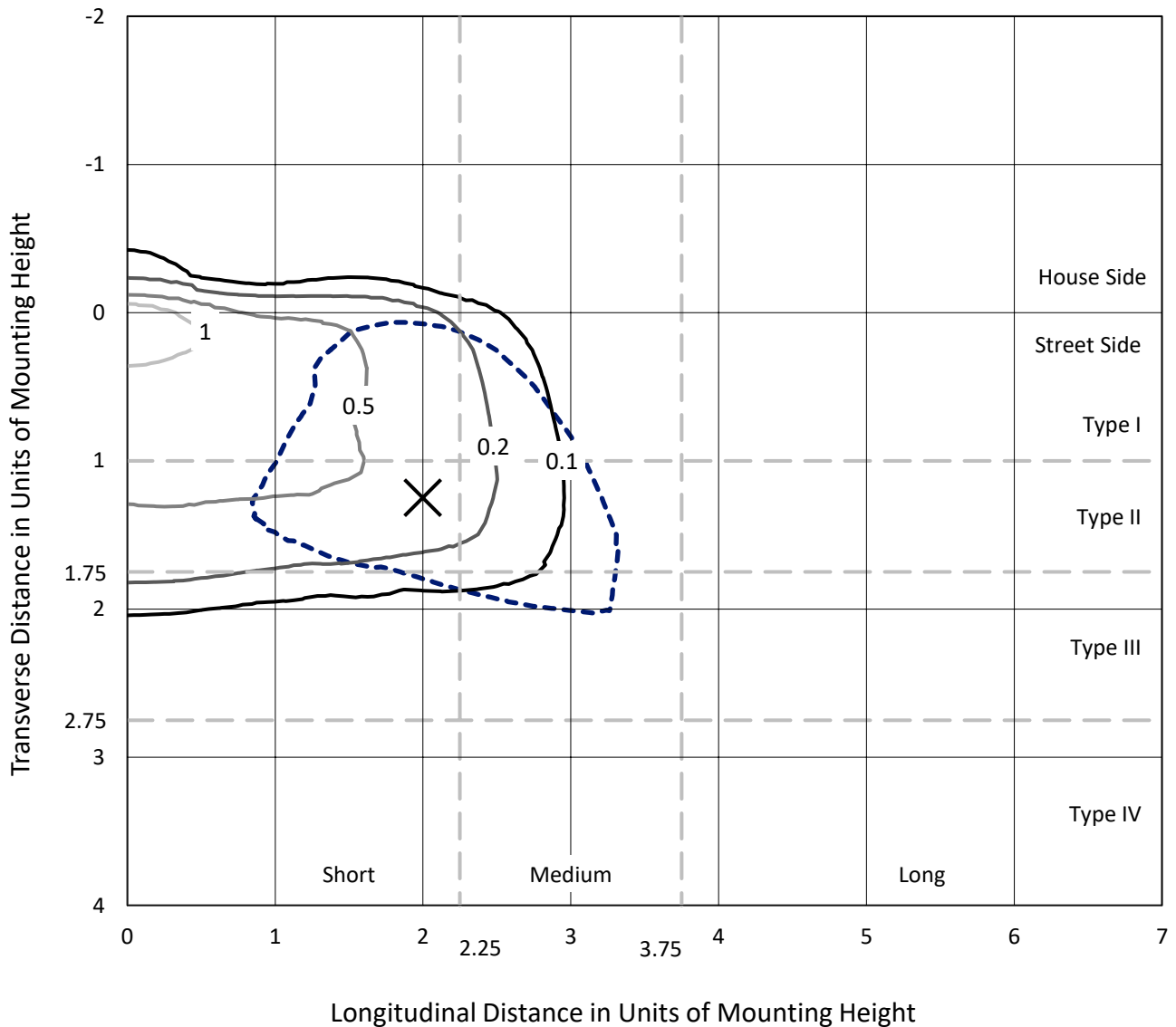
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

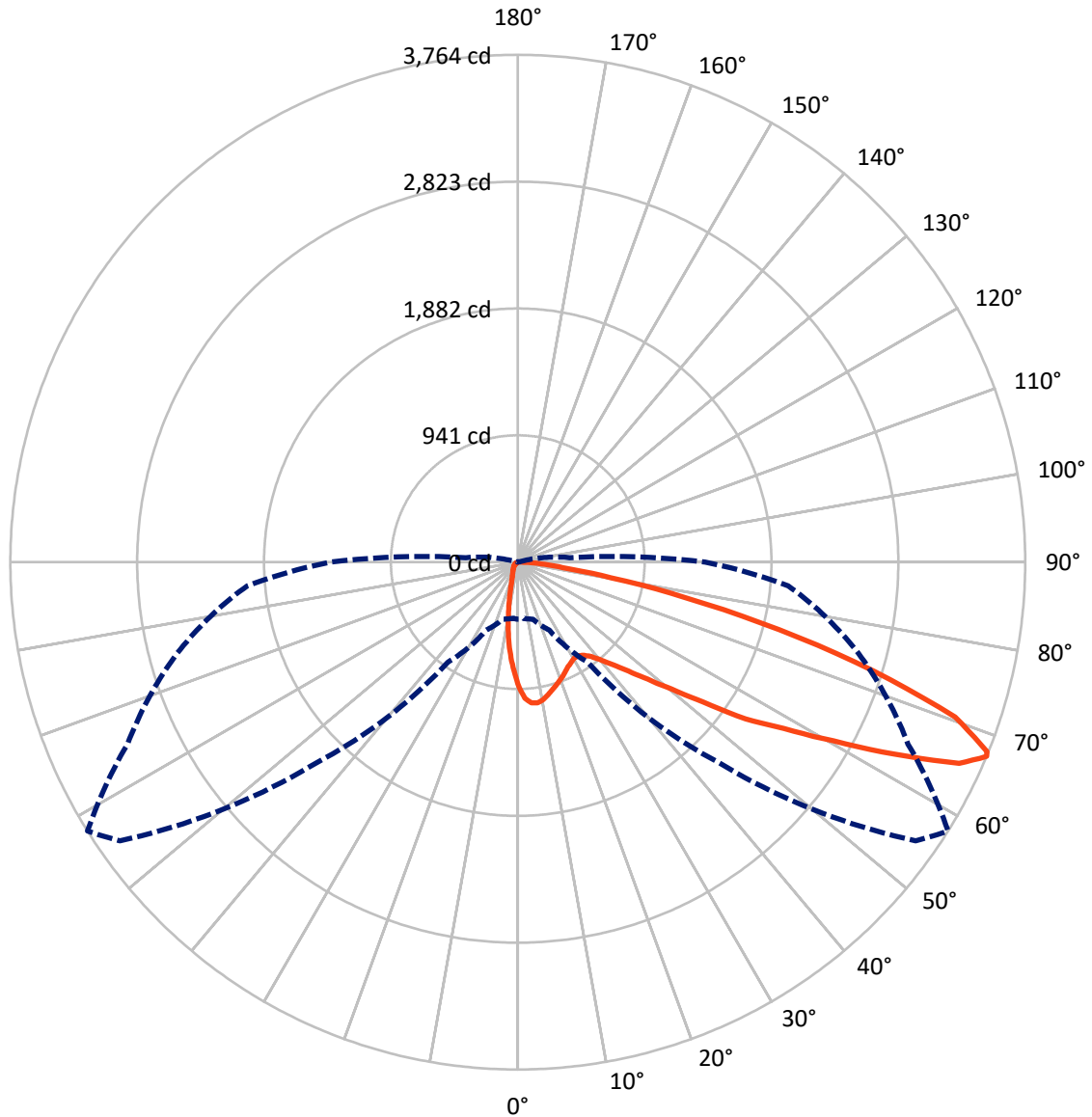
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	251.6	0.0	251.6
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3234.4	0.0	3234.4
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3486.0	0.0	3486.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.0	2.2
10°-20°	162.0	4.6
20°-30°	219.5	6.3
30°-40°	304.4	8.7
40°-50°	485.5	13.9
50°-60°	839.2	24.1
60°-70°	958.6	27.5
70°-80°	399.6	11.5
80°-90°	42.4	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°	3486.0	100.0
0°-180°	3486.0	100.0

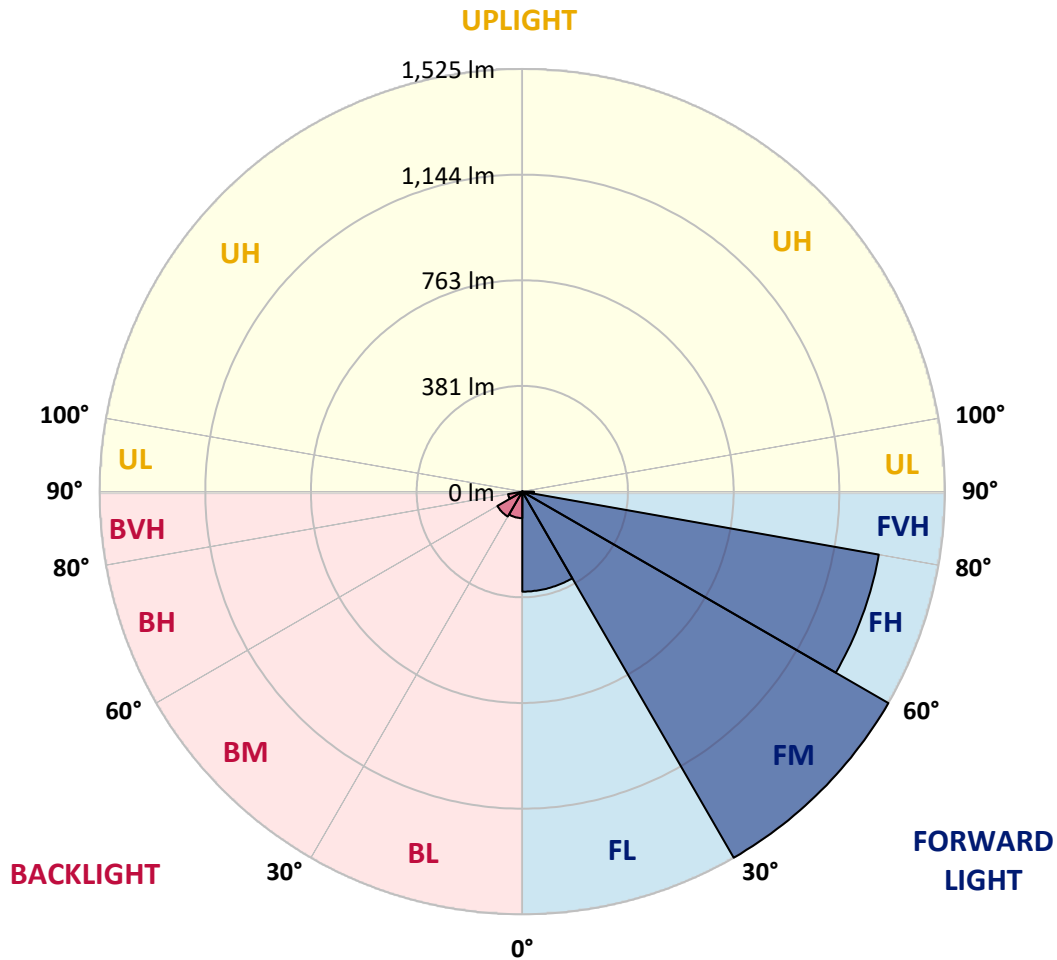


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.9	10.4			
FM (30°-60°)	1525.3	43.8			
FH (60°-80°)	1306.2	37.5			G1/1800
FVH (80°-90°)	42.1	1.2			G1/100
BL (0°-30°)	95.5	2.7	B0/110		
BM (30°-60°)	103.7	3.0	B0/220		
BH (60°-80°)	52.0	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°	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1
2.5°	1072.5	1074.1	1068.1	1063.2	1050.6	1037.1	1019.1	1009.6	993.3	965.1	933.9
5°	1097.7	1099.7	1098.8	1097.7	1092.8	1079.7	1056.9	1048.5	1024.5	978.6	922.2
7.5°	1041.7	1049.4	1050.4	1059.4	1068.1	1069.2	1060.6	1054.3	1032.2	978.4	901.5
10°	967.7	972.8	980.2	990.7	1011.5	1028.7	1037.1	1036.2	1023.3	971.2	877.3
12.5°	892.9	895.7	907.1	925.0	950.4	979.8	1002.1	1006.6	1006.8	962.5	857.0
15°	828.6	827.4	836.3	857.0	892.7	929.5	969.5	976.5	987.7	954.2	838.1
17.5°	773.6	779.7	781.1	803.9	836.8	884.5	935.5	947.9	970.2	946.9	822.5
20°	739.6	742.9	745.9	758.7	788.3	838.6	903.6	920.6	953.9	940.4	805.1
22.5°	729.6	731.7	729.1	733.1	754.1	798.8	868.9	891.5	938.3	934.4	790.9
25°	737.3	739.4	733.3	728.7	735.9	766.4	835.4	862.8	925.7	933.2	780.1
27.5°	755.9	759.9	751.5	743.1	738.9	748.9	809.0	840.9	917.1	938.8	775.3
30°	785.0	787.4	781.1	770.8	761.3	751.3	795.3	825.8	914.8	951.8	774.8
32.5°	816.7	821.6	818.1	811.4	799.0	775.3	799.2	826.3	920.4	970.7	780.6
35°	855.9	861.4	864.7	863.3	847.5	817.9	824.4	847.2	935.3	1005.4	796.5
37.5°	894.3	899.2	917.6	923.9	909.9	881.9	873.3	888.5	968.1	1050.8	825.1
40°	938.3	944.8	970.7	994.7	987.9	958.6	942.7	955.3	1018.5	1119.3	879.4
42.5°	980.5	992.1	1031.5	1073.9	1080.2	1047.3	1036.9	1041.0	1093.0	1217.9	955.1
45°	1040.3	1051.3	1102.1	1159.6	1189.2	1163.6	1152.9	1152.2	1195.3	1356.5	1077.9
47.5°	1126.8	1136.6	1196.4	1253.3	1305.9	1309.4	1289.1	1296.1	1323.8	1518.6	1228.3
50°	1232.8	1255.8	1295.2	1354.4	1424.7	1481.6	1487.8	1478.5	1502.3	1706.3	1409.1
52.5°	1386.7	1395.6	1431.7	1480.4	1562.9	1659.3	1734.1	1721.3	1713.8	1885.3	1591.7
55°	1501.6	1513.5	1569.6	1636.5	1757.4	1884.6	2046.7	2051.1	1957.0	2057.2	1770.4
57.5°	1466.9	1485.0	1570.1	1704.5	1970.3	2202.8	2323.4	2326.5	2182.0	2224.2	1972.1
60°	1288.7	1297.3	1419.1	1598.5	1988.4	2547.5	2715.9	2691.5	2411.0	2411.0	2150.3
62.5°	913.9	927.4	1026.1	1290.1	1795.8	2667.3	3186.0	3135.5	2726.4	2589.7	2256.6
65°	584.0	571.0	636.4	814.4	1337.8	2490.5	3595.3	3598.4	3023.2	2661.2	2198.6
67°	423.0	417.9	436.8	556.7	907.1	2093.5	3603.9	3763.5	3193.7	2616.0	2013.1
67.5°	386.9	390.9	404.6	502.2	824.2	1905.1	3564.8	3753.7	3232.2	2588.8	1946.1
70°	293.3	286.5	301.4	355.2	494.1	1201.8	3066.5	3442.7	3184.4	2318.3	1554.9
72.5°	215.7	215.0	235.7	290.5	380.4	640.1	2302.0	2760.4	2601.6	1765.3	979.1
75°	145.6	152.1	185.2	242.7	344.8	415.1	1569.4	2002.7	1806.0	1002.4	400.2
77.5°	82.9	83.4	119.3	195.0	309.6	334.0	929.9	1275.9	956.0	333.3	118.8
80°	35.9	39.4	59.2	141.6	256.7	295.8	533.2	701.2	386.7	70.6	38.4
82.5°	13.3	15.6	26.1	87.1	187.3	243.7	322.2	334.7	131.1	24.9	24.0
85°	0.0	0.5	9.6	40.8	97.6	108.8	215.2	198.5	58.0	11.9	15.6
87.5°	0.0	0.0	0.0	4.2	12.8	40.5	66.9	74.5	14.0	4.2	3.7
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°	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1	924.1
2.5°	917.1	902.0	864.0	826.0	797.8	774.3	738.9	719.6	709.3	694.2	695.1
5°	894.1	863.3	796.5	727.3	671.4	616.8	551.6	525.3	503.2	490.6	482.2
7.5°	859.8	814.4	715.4	623.1	537.2	441.9	370.4	322.6	290.5	278.6	267.2
10°	822.3	762.0	633.2	505.3	386.0	287.7	227.1	183.3	167.7	153.3	154.7
12.5°	787.6	714.2	557.7	398.8	270.5	182.9	142.6	124.6	119.5	117.9	117.9
15°	759.2	668.6	476.6	299.8	185.4	131.4	114.1	109.3	107.4	106.9	106.9
17.5°	728.9	625.2	403.5	221.5	134.9	110.0	104.1	100.9	100.2	99.7	99.7
20°	701.9	581.7	334.0	164.9	109.0	99.0	95.3	93.2	92.5	92.0	92.2
22.5°	676.2	543.0	268.8	124.6	96.0	90.2	86.4	84.3	82.9	81.8	82.0
25°	653.4	505.7	216.2	102.0	86.4	81.3	77.6	74.5	71.5	70.1	69.9
27.5°	637.3	473.1	168.4	87.4	77.8	72.2	67.6	63.8	59.9	57.8	57.3
30°	624.1	440.0	133.2	77.1	69.2	63.8	58.0	52.6	48.5	46.4	45.4
32.5°	615.4	408.6	105.1	68.7	62.0	55.4	48.9	43.6	38.9	36.8	36.3
35°	614.1	382.3	86.0	61.7	55.4	48.5	41.7	35.9	31.9	29.8	29.4
37.5°	624.1	362.0	72.0	56.1	50.1	42.4	34.9	29.6	26.1	24.5	24.2
40°	650.9	349.2	62.4	51.5	45.2	36.8	29.8	25.2	21.7	20.0	20.0
42.5°	701.9	349.7	56.1	47.1	40.3	31.4	25.4	21.0	17.9	16.5	16.1
45°	781.5	365.5	50.8	42.6	35.6	27.3	21.7	17.2	14.2	13.0	13.0
47.5°	888.2	396.9	46.1	38.2	31.4	23.3	18.4	14.0	11.4	10.2	10.2
50°	1027.8	447.5	42.2	34.5	28.0	20.0	14.9	11.4	8.9	7.9	7.7
52.5°	1173.6	509.9	37.5	31.2	24.0	17.0	12.1	8.9	6.8	6.1	5.8
55°	1334.6	571.0	33.1	28.0	19.6	14.2	9.6	7.0	4.9	4.2	4.2
57.5°	1496.9	630.8	27.7	23.3	15.4	10.5	7.5	5.1	3.3	2.6	2.6
60°	1634.4	650.2	23.5	18.9	11.6	7.5	5.4	3.3	1.9	1.2	1.2
62.5°	1653.2	584.9	19.8	14.4	8.4	5.1	2.8	1.9	0.7	0.5	0.5
65°	1550.7	475.2	16.5	10.9	5.6	2.6	1.2	0.7	0.2	0.0	0.0
67°	1389.5	385.3	13.5	8.2	4.0	1.6	0.7	0.2	0.0	0.0	0.0
67.5°	1348.3	367.4	13.0	7.7	3.5	1.4	0.5	0.2	0.0	0.0	0.0
70°	1058.1	275.1	9.3	4.7	2.1	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	657.6	155.6	6.8	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0
75°	248.6	54.5	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	77.3	20.7	2.8	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.1	7.9	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	3.3	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.5	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)