

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: P450565

Luminaire Tested: **GALN-SA1B-760-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-760-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4165 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

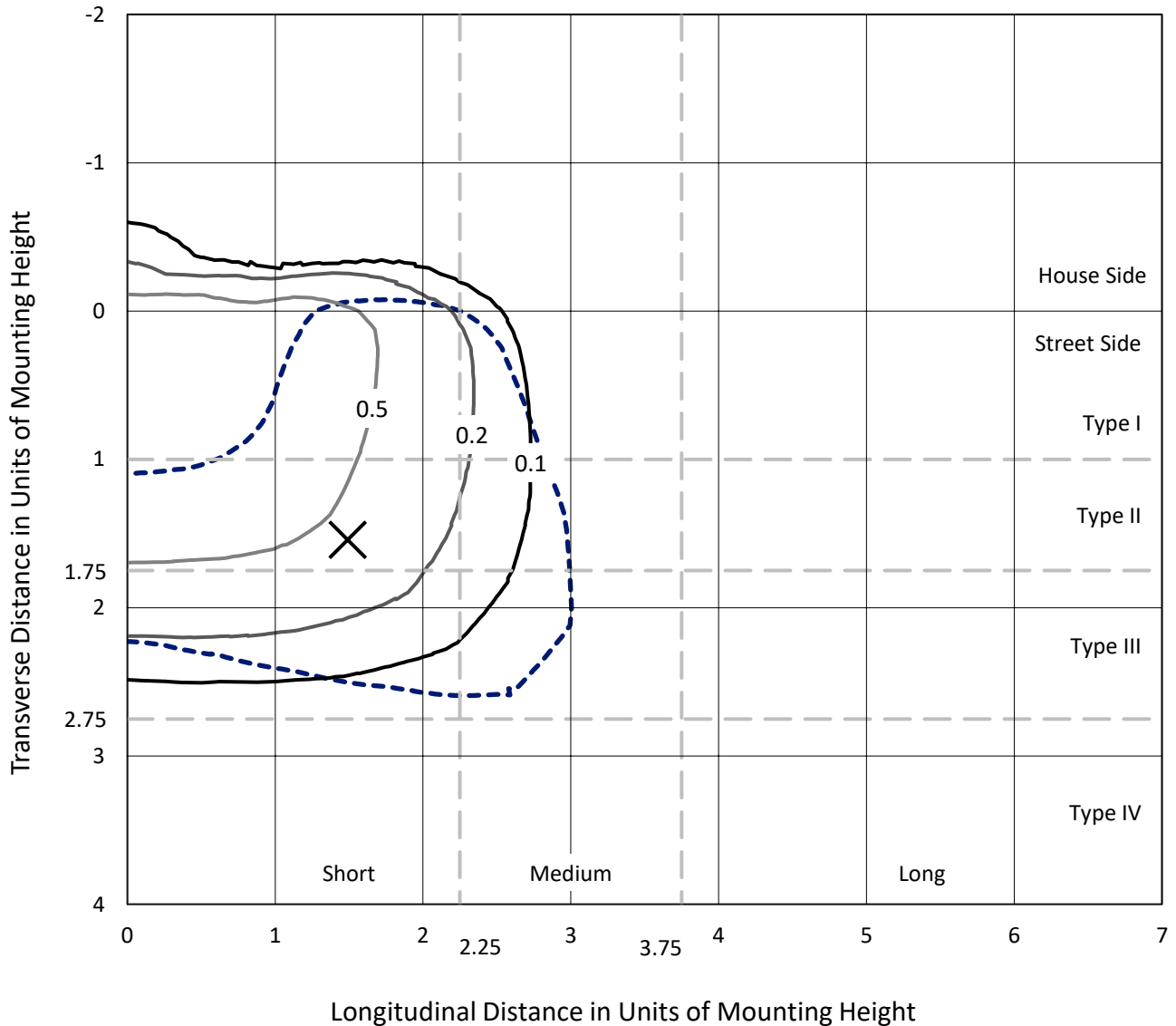
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

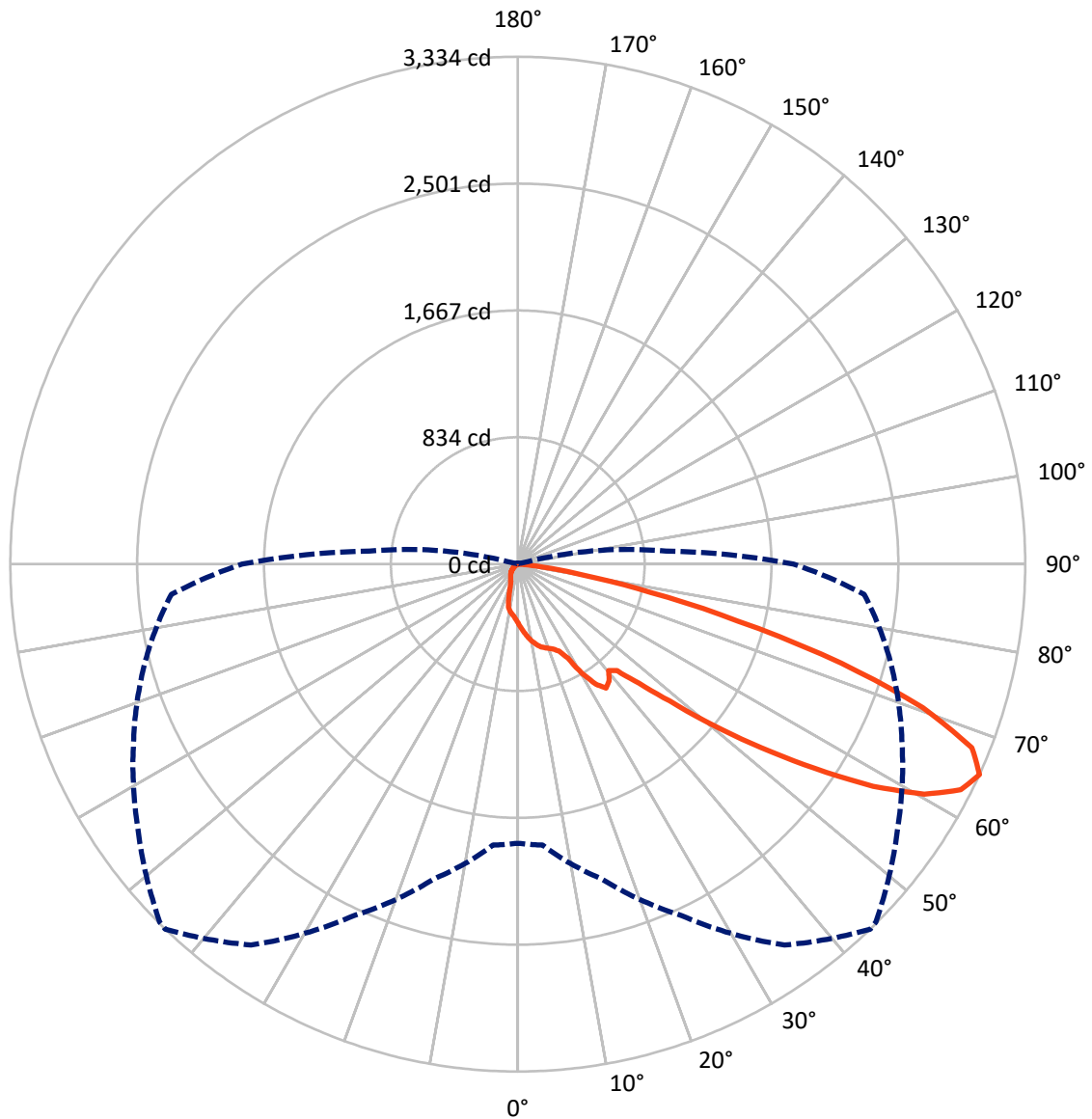
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	383.7	0.0	383.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	3781.3	0.0	3781.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	4165.0	0.0	4165.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	0.9
10°-20°	116.0	2.8
20°-30°	196.8	4.7
30°-40°	327.1	7.9
40°-50°	571.2	13.7
50°-60°	1115.9	26.8
60°-70°	1294.7	31.1
70°-80°	471.5	11.3
80°-90°	33.2	0.8
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°	4165.0	100.0
0°-180°	4165.0	100.0

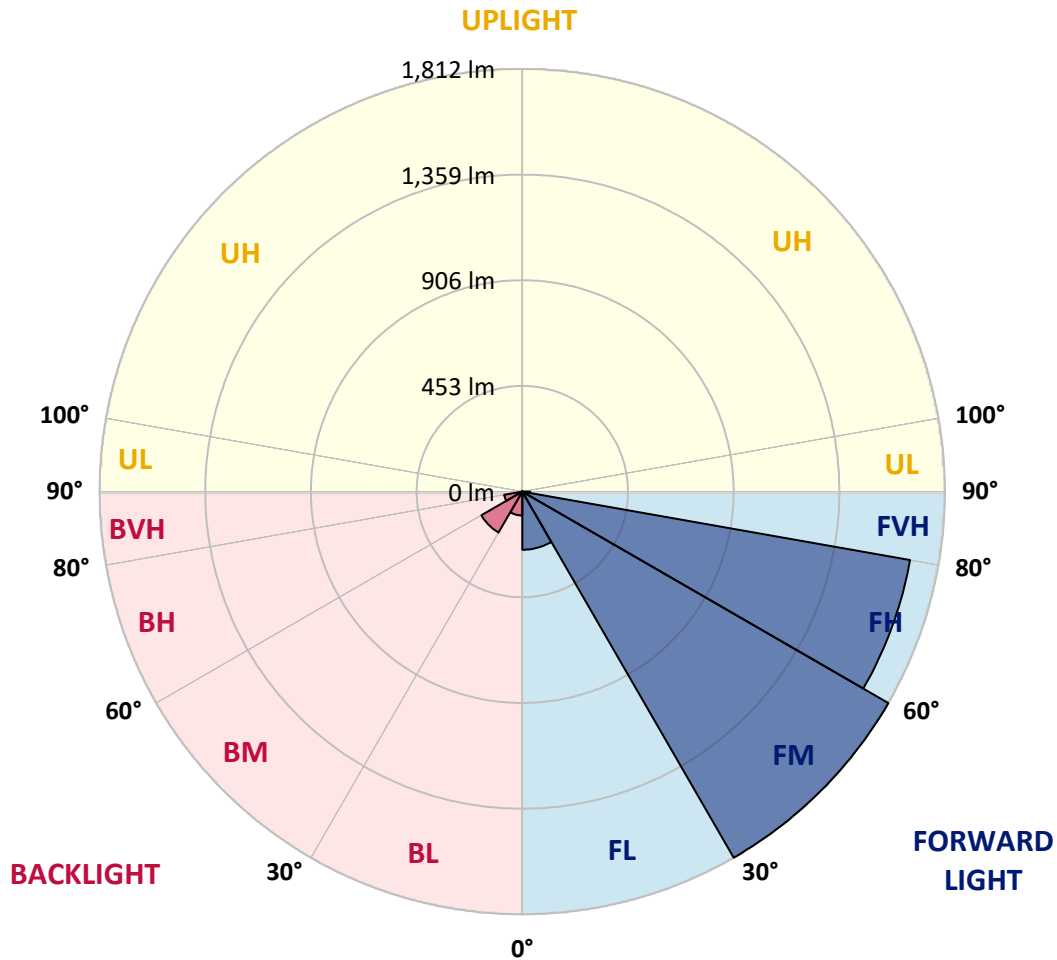


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.1	6.0			
FM (30°-60°)	1811.8	43.5			
FH (60°-80°)	1687.6	40.5			G1/1800
FVH (80°-90°)	32.8	0.8			G1/100
BL (0°-30°)	102.2	2.5	B0/110		
BM (30°-60°)	202.5	4.9	B0/220		
BH (60°-80°)	78.6	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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°	44°	45°	55°	65°	75°	85°
0°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	436.3	434.4	433.5	428.4	424.6	419.8	419.8	413.7	406.7	399.1	392.1
5°	485.0	481.8	477.7	473.2	464.3	451.6	451.6	438.9	424.2	411.2	396.9
7.5°	531.8	528.9	521.9	513.3	498.7	485.3	484.4	465.9	448.4	428.7	408.3
10°	572.9	570.6	564.6	548.0	532.8	515.3	514.9	494.3	473.9	449.7	424.6
12.5°	601.5	601.8	593.9	578.0	558.2	541.7	540.4	520.0	498.7	472.6	441.7
15°	621.9	621.9	613.6	595.8	578.0	563.3	562.0	544.2	522.3	493.9	460.5
17.5°	627.6	629.5	620.6	604.7	590.4	577.6	577.3	562.4	544.9	517.5	479.6
20°	625.4	627.3	620.3	607.9	598.0	590.7	589.7	583.7	567.5	541.7	500.0
22.5°	620.6	622.5	617.4	610.1	605.3	607.6	606.0	611.1	602.5	571.3	524.2
25°	621.6	623.5	619.6	615.5	619.6	633.3	637.5	659.4	651.8	608.8	550.3
27.5°	651.5	655.3	649.9	651.8	666.4	698.3	706.2	744.1	710.4	656.6	591.0
30°	718.0	715.4	705.3	714.5	765.4	832.9	830.7	824.6	771.8	711.6	639.4
32.5°	778.5	776.2	775.6	815.4	907.7	940.5	938.9	880.3	826.8	774.6	687.1
35°	803.0	794.4	792.5	888.9	1043.2	1000.0	990.1	903.2	893.7	843.4	735.8
37.5°	876.8	870.8	841.2	901.0	989.1	974.8	967.2	942.7	965.0	904.2	790.9
40°	1028.9	1012.1	985.3	926.8	912.4	918.5	926.1	993.3	1049.3	987.2	864.4
42.5°	1218.0	1214.2	1164.5	1055.3	948.1	956.4	966.2	1098.9	1170.6	1112.3	984.4
45°	1444.9	1450.3	1378.7	1249.8	1109.1	1116.1	1130.4	1254.9	1334.8	1306.8	1173.1
47.5°	1651.1	1647.0	1622.8	1488.8	1359.0	1343.4	1366.6	1455.1	1562.0	1566.5	1407.3
50°	1858.6	1880.6	1844.6	1792.1	1695.7	1662.9	1654.3	1697.6	1860.5	1839.2	1688.7
52.5°	2156.8	2168.3	2100.8	2087.4	2109.4	2003.1	1994.5	2005.0	2150.8	2077.6	1899.4
55°	2344.3	2337.6	2312.5	2416.8	2503.7	2371.0	2360.2	2317.9	2391.7	2245.9	2102.1
57.5°	2403.5	2413.0	2471.6	2660.3	2865.9	2753.2	2733.5	2613.2	2565.5	2402.8	2288.6
60°	2377.1	2394.6	2520.9	2801.6	3086.8	3069.9	3053.0	2850.9	2690.2	2534.0	2419.4
62.5°	2189.0	2213.5	2415.6	2776.5	3161.6	3266.9	3245.9	2999.3	2773.3	2597.6	2442.3
65°	1834.4	1852.6	2142.8	2548.3	3055.3	3334.4	3326.7	3045.7	2786.3	2539.4	2285.4
67.5°	1307.7	1369.5	1638.4	2147.6	2740.8	3219.2	3232.2	2990.0	2663.8	2287.6	1892.7
70°	822.1	864.1	1056.9	1537.5	2197.2	2824.2	2867.2	2735.1	2311.8	1783.2	1267.0
72.5°	392.1	423.3	560.8	973.2	1550.9	2222.1	2256.1	2245.3	1787.7	1123.4	653.7
75°	174.7	186.5	267.7	496.8	1001.2	1493.6	1581.7	1596.4	1117.1	549.6	254.3
77.5°	89.1	89.4	125.4	240.6	500.0	891.1	908.6	959.9	605.6	242.2	88.5
80°	47.4	50.6	66.5	113.6	259.4	438.9	436.6	479.9	268.6	118.7	29.6
82.5°	21.3	23.6	37.6	59.5	126.7	166.4	179.5	196.4	115.2	75.7	13.0
85°	6.4	7.6	18.5	29.9	45.8	48.1	53.8	69.4	65.2	53.8	6.7
87.5°	1.0	1.0	7.6	8.3	6.7	8.6	8.9	9.9	21.0	19.7	3.5
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°	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6	387.6
2.5°	388.3	386.0	378.1	371.4	365.7	362.2	358.0	355.5	354.2	353.3	353.6
5°	389.9	384.5	370.8	359.9	351.7	342.8	336.7	333.2	331.6	329.1	329.1
7.5°	398.8	390.2	371.1	354.5	340.2	328.1	316.7	312.5	309.7	309.0	308.4
10°	411.5	400.7	374.6	351.7	331.3	314.8	298.5	284.2	273.1	266.4	265.4
12.5°	427.4	411.8	380.0	349.8	323.7	294.4	251.4	222.5	203.0	197.0	198.0
15°	442.1	425.2	385.4	348.2	309.7	244.1	195.4	162.3	152.4	151.5	151.8
17.5°	459.6	439.5	391.8	345.9	271.2	186.5	145.1	136.2	138.1	141.3	141.0
20°	477.7	454.8	399.4	332.6	216.4	140.4	128.3	129.2	132.1	134.9	135.6
22.5°	497.1	472.3	408.3	300.4	165.2	122.2	121.6	122.8	125.7	128.9	129.5
25°	523.9	494.3	415.0	258.4	125.1	113.0	114.3	116.5	119.0	122.5	123.2
27.5°	558.2	523.9	418.5	203.7	108.2	104.7	105.0	108.2	111.4	114.6	114.6
30°	602.8	559.2	411.5	154.0	99.9	96.8	95.5	97.4	101.5	104.7	105.0
32.5°	642.6	592.6	393.0	117.8	93.9	89.4	86.2	86.6	88.2	90.1	90.4
35°	682.3	625.1	361.5	99.0	87.5	82.4	77.7	75.1	73.8	72.9	73.8
37.5°	733.3	665.5	319.5	90.1	82.1	75.7	69.1	63.7	59.2	56.3	57.0
40°	798.8	721.5	269.9	84.3	77.0	69.4	60.5	53.5	45.8	43.3	42.0
42.5°	907.0	806.5	217.7	79.6	71.9	62.7	51.6	42.0	35.0	32.5	33.1
45°	1077.9	913.7	167.7	74.5	66.8	55.4	43.3	33.1	27.4	26.1	26.7
47.5°	1304.5	1052.5	129.2	68.7	60.5	47.4	34.1	26.1	22.6	22.3	22.0
50°	1517.8	1181.7	107.9	62.4	52.8	39.5	28.0	22.0	19.7	19.4	19.4
52.5°	1710.6	1274.3	87.8	55.1	44.6	32.5	23.6	19.4	17.5	16.5	16.5
55°	1882.2	1334.8	71.3	46.1	35.0	25.8	20.4	17.5	15.3	14.0	13.7
57.5°	2011.7	1342.1	53.5	36.9	26.1	20.1	17.5	15.3	12.7	11.1	10.5
60°	2067.1	1278.8	39.5	28.0	19.4	15.9	14.0	12.4	9.5	8.0	7.6
62.5°	2011.4	1155.6	29.3	21.3	15.0	11.8	9.9	9.2	6.7	4.8	4.5
65°	1811.8	977.7	23.2	16.2	11.1	8.6	6.4	6.0	4.1	2.2	1.9
67.5°	1451.6	765.7	18.5	12.1	8.0	5.7	4.1	3.8	2.2	0.6	0.6
70°	944.0	489.5	15.0	8.9	5.1	3.8	2.5	1.9	1.3	0.3	0.0
72.5°	466.9	228.8	12.1	7.0	3.5	1.9	1.0	0.6	1.0	0.0	0.0
75°	181.1	81.5	8.9	4.8	1.9	1.0	0.6	0.0	0.3	0.0	0.0
77.5°	60.2	27.1	5.4	2.5	1.3	0.6	0.0	0.0	0.0	0.0	0.0
80°	22.3	10.5	2.9	1.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	4.1	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	2.5	1.3	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.9	1.3	1.0	0.6	0.3	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)