

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: P450592

Luminaire Tested: **GALN-SA1B-827-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3048 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

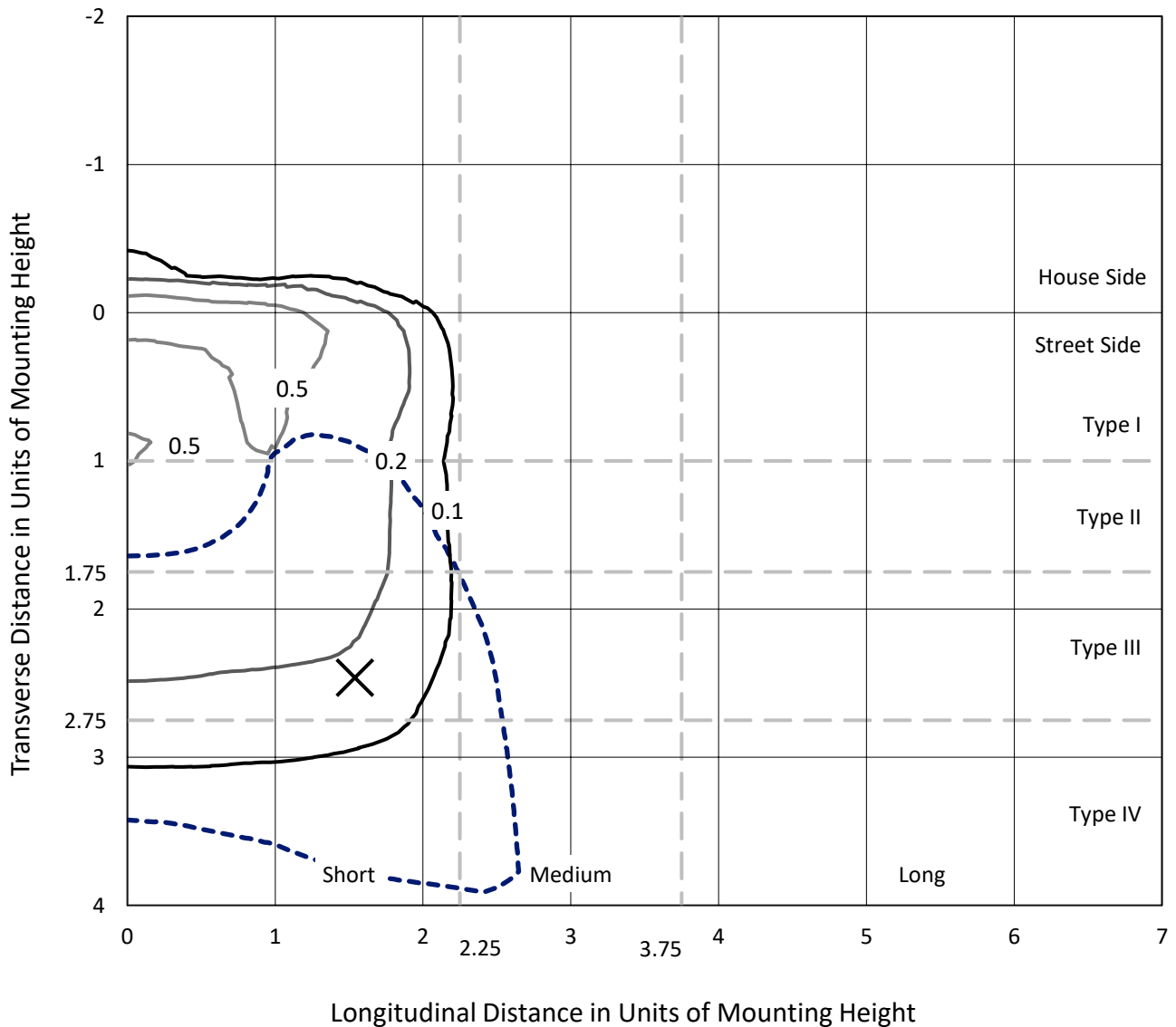
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

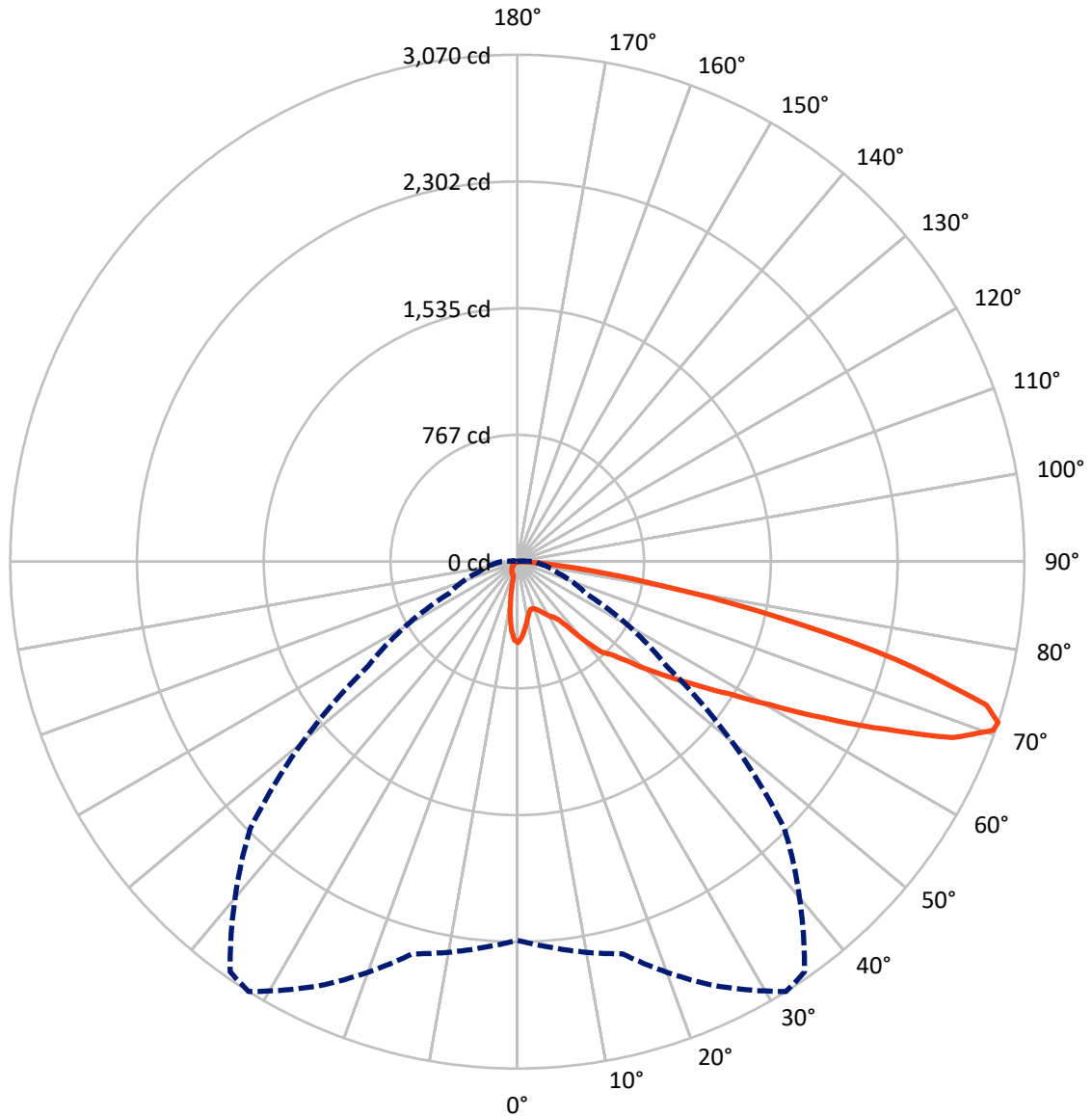
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	255.3	0.0	255.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	2792.7	0.0	2792.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	3048.0	0.0	3048.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.9	1.3
10°-20°	86.5	2.8
20°-30°	134.6	4.4
30°-40°	224.2	7.4
40°-50°	417.0	13.7
50°-60°	669.6	22.0
60°-70°	900.6	29.5
70°-80°	534.3	17.5
80°-90°	41.3	1.4
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°	3048.0	100.0
0°-180°	3048.0	100.0

**Coefficient of Utilization**



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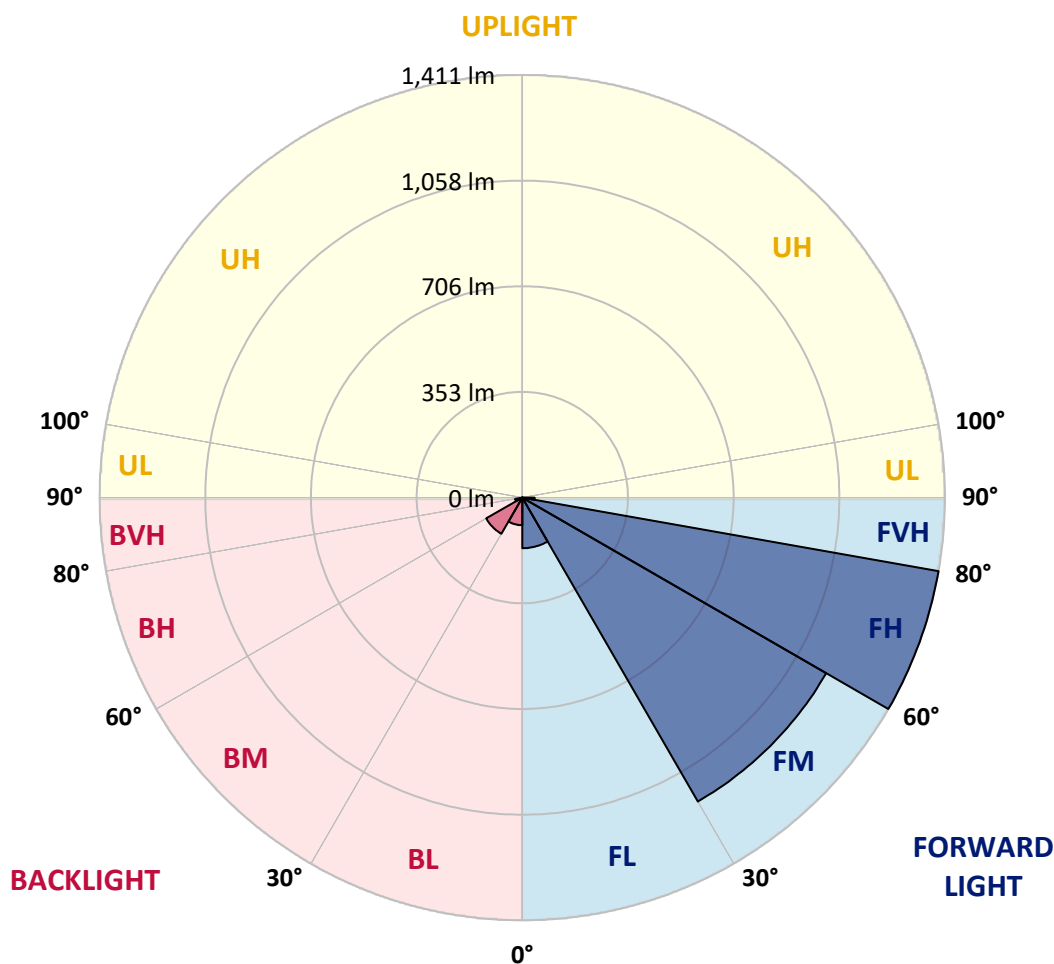
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	168.9	5.5			
FM	(30°-60°)	1171.5	38.4			
FH	(60°-80°)	1411.1	46.3			G1/1800
FVH	(80°-90°)	41.1	1.3			G1/100
BL	(0°-30°)	92.0	3.0	B0/110		
BM	(30°-60°)	139.3	4.6	B0/220		
BH	(60°-80°)	23.9	0.8	B0/110		G0/110
BVH	(80°-90°)	0.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	454.6	459.3	458.6	460.2	464.2	465.8	470.3	475.2	482.0	486.7	489.7
5°	407.1	410.6	411.1	419.3	423.3	427.7	440.8	455.1	471.0	483.6	492.0
7.5°	356.3	358.2	362.0	372.7	382.8	387.2	407.1	431.9	456.9	480.6	495.8
10°	314.5	316.6	323.3	334.8	344.2	350.0	377.6	408.7	443.8	478.9	501.2
12.5°	290.6	291.8	294.3	304.6	316.6	322.9	352.6	388.2	433.3	479.6	510.3
15°	289.0	288.5	285.4	289.7	300.4	307.0	336.0	374.1	424.0	482.0	521.0
17.5°	297.6	296.4	289.2	289.2	298.1	303.5	329.0	366.6	419.3	487.4	536.3
20°	310.9	309.1	297.1	296.2	304.9	310.5	333.2	367.1	420.2	497.4	556.6
22.5°	327.8	325.7	307.7	308.1	317.5	323.1	345.3	375.5	426.1	509.8	578.4
25°	349.8	347.4	326.2	325.2	335.0	340.0	363.4	390.5	434.2	525.3	606.9
27.5°	379.0	374.1	348.6	347.2	357.7	364.1	385.1	410.6	448.8	546.6	645.3
30°	403.1	397.7	373.4	369.7	380.9	385.8	407.6	437.8	477.3	583.8	698.4
32.5°	434.7	426.8	398.2	388.4	400.3	406.6	440.1	488.3	519.6	623.1	761.6
35°	505.8	500.9	466.1	431.7	431.0	438.9	488.1	539.3	563.2	684.4	847.7
37.5°	607.6	604.1	567.1	521.0	507.7	504.0	546.3	595.5	632.7	768.6	947.8
40°	725.8	717.6	683.7	644.6	627.3	616.3	615.1	679.0	723.4	883.0	1052.2
42.5°	810.5	795.5	754.3	751.5	747.8	736.3	703.1	801.1	840.7	1006.1	1163.8
45°	899.4	876.7	815.4	804.9	803.5	802.7	836.0	945.7	968.4	1139.4	1278.4
47.5°	968.4	950.4	900.1	895.4	901.3	917.2	1011.7	1099.2	1094.5	1258.3	1374.6
50°	1060.3	1046.8	990.9	999.8	1029.9	1055.9	1209.9	1266.5	1198.2	1351.9	1444.5
52.5°	1168.9	1143.9	1091.9	1116.0	1162.4	1205.6	1420.2	1412.9	1270.9	1422.3	1496.7
55°	1263.0	1245.2	1227.4	1252.4	1321.7	1375.7	1610.2	1522.7	1323.8	1478.9	1519.6
57.5°	1422.1	1417.9	1399.6	1425.1	1509.1	1565.3	1780.3	1607.8	1357.7	1508.4	1492.7
60°	1657.4	1650.7	1616.7	1649.3	1758.7	1847.0	1937.0	1684.3	1365.4	1496.9	1415.3
62.5°	1940.5	1917.4	1888.4	1936.3	2086.5	2125.4	2084.7	1729.7	1336.7	1405.7	1228.6
65°	2204.9	2181.1	2181.8	2282.8	2446.4	2472.8	2256.9	1723.0	1252.4	1177.1	906.2
67.5°	2407.3	2403.3	2431.9	2629.1	2843.0	2824.7	2410.8	1621.4	1002.8	763.0	481.5
70°	2417.6	2425.3	2507.2	2840.2	3057.3	3028.3	2397.7	1317.9	625.2	351.0	189.7
71°	2293.1	2345.1	2458.3	2833.6	3069.9	3032.2	2287.3	1103.9	458.6	244.7	136.9
72.5°	1954.1	1981.5	2226.2	2666.8	2970.0	2889.5	2007.2	773.7	293.6	149.7	78.6
75°	1076.3	1143.6	1490.9	2092.2	2375.5	2304.8	1308.1	367.6	146.5	81.9	32.5
77.5°	512.4	499.3	727.4	1244.2	1610.6	1606.9	659.1	163.3	85.4	55.5	16.4
80°	146.5	164.7	278.4	591.5	894.2	904.1	253.2	78.8	59.2	43.3	8.4
82.5°	44.2	45.2	102.2	261.6	444.8	419.3	95.0	40.2	42.6	34.4	4.9
85°	7.7	9.6	30.2	92.2	169.6	128.7	23.9	19.2	28.1	22.7	2.8
87.5°	0.5	0.7	10.1	10.5	15.0	8.7	4.2	2.8	6.1	6.1	1.6
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°	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2	490.2
2.5°	491.8	493.2	492.3	490.2	486.7	482.4	476.8	472.2	468.2	466.1	468.6
5°	494.8	496.7	492.0	481.5	465.6	448.3	428.6	413.4	401.5	397.7	396.3
7.5°	499.5	500.7	488.1	464.7	431.0	390.0	354.2	324.0	300.7	293.6	283.3
10°	505.6	504.9	481.0	437.5	378.3	316.8	261.3	220.2	189.0	177.8	176.9
12.5°	515.0	511.2	472.2	400.6	315.6	235.1	166.6	130.3	110.7	104.1	102.7
15°	526.7	517.8	458.1	357.3	241.7	151.8	102.7	91.7	89.1	88.7	88.2
17.5°	540.5	526.4	439.6	304.2	169.9	98.5	85.9	85.6	85.9	85.4	85.2
20°	559.2	535.6	417.6	241.2	112.3	83.1	81.9	81.9	82.1	81.9	81.9
22.5°	579.1	546.3	390.5	184.1	84.7	78.8	78.6	79.1	79.5	79.3	79.3
25°	603.6	560.4	354.7	126.1	75.8	75.3	75.6	76.5	77.4	77.7	77.4
27.5°	639.2	577.7	316.3	86.8	69.5	70.0	72.3	74.6	76.0	76.3	76.3
30°	679.2	596.9	266.3	70.4	64.3	64.3	67.1	71.6	74.6	75.1	75.3
32.5°	730.7	619.1	210.8	63.4	59.4	59.0	61.5	66.9	72.5	74.2	74.2
35°	794.3	645.3	156.8	59.0	55.9	54.7	56.2	60.6	67.9	72.5	73.0
37.5°	869.0	670.1	114.6	55.0	52.6	51.0	51.9	55.5	61.3	68.3	70.2
40°	938.0	692.1	85.6	51.7	49.4	48.2	48.9	50.5	55.5	62.0	63.2
42.5°	1013.3	709.2	68.1	48.2	46.1	45.6	45.6	46.3	49.6	53.3	53.6
45°	1088.4	715.2	57.1	44.0	42.6	43.1	42.8	42.3	43.8	43.3	43.3
47.5°	1142.0	708.0	47.3	40.0	40.0	40.7	39.5	37.9	37.2	34.4	34.6
50°	1178.7	681.6	38.8	35.3	37.2	38.1	35.8	33.2	30.6	27.6	26.9
52.5°	1193.9	634.5	31.8	29.2	33.0	34.2	31.4	28.3	24.3	21.8	21.1
55°	1184.1	576.5	26.4	23.9	27.8	29.2	26.4	22.9	18.5	15.7	15.2
57.5°	1140.8	507.2	22.5	19.0	22.2	23.2	21.3	17.5	13.1	10.3	10.3
60°	1066.0	435.7	18.2	15.0	16.6	18.0	16.1	12.6	8.9	6.3	5.8
62.5°	914.1	353.8	14.7	11.7	11.7	12.9	11.2	9.1	5.6	3.3	3.0
65°	660.0	242.6	11.7	8.7	8.4	8.4	7.0	6.1	3.3	1.4	0.9
67.5°	358.7	136.9	9.4	6.6	5.8	5.6	4.4	3.5	1.4	0.2	0.0
70°	141.1	52.6	7.3	4.4	3.7	3.5	2.3	1.6	0.9	0.0	0.0
71°	95.7	36.3	6.3	3.7	3.0	2.6	1.9	1.4	0.7	0.0	0.0
72.5°	54.7	22.5	4.9	2.8	2.3	1.9	1.4	0.9	0.7	0.0	0.0
75°	23.9	11.5	3.0	2.1	1.6	1.2	0.9	0.7	0.2	0.0	0.0
77.5°	12.2	6.3	2.1	1.6	0.9	0.7	0.5	0.2	0.0	0.0	0.0
80°	6.8	3.3	1.4	0.9	0.7	0.5	0.2	0.2	0.0	0.0	0.0
82.5°	3.7	1.9	0.7	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.5	0.0	0.0	0.0	0.0	0.2	0.2	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)