

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: P458569

Luminaire Tested: **GALN-SA1B-735-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458569  
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-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 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: 3880 lumens  
Efficiency: N/A  
Efficacy: 88.2 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

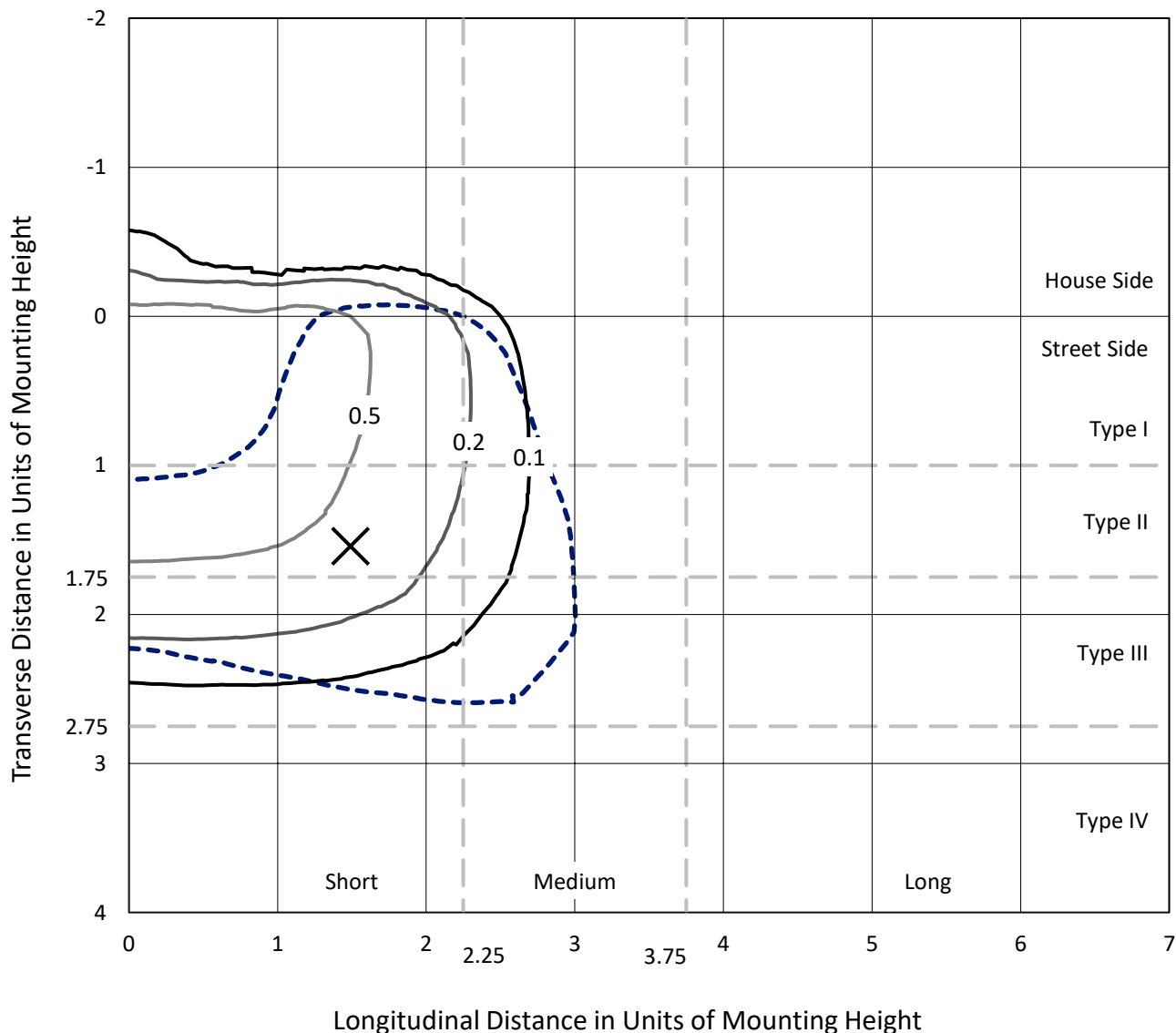
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

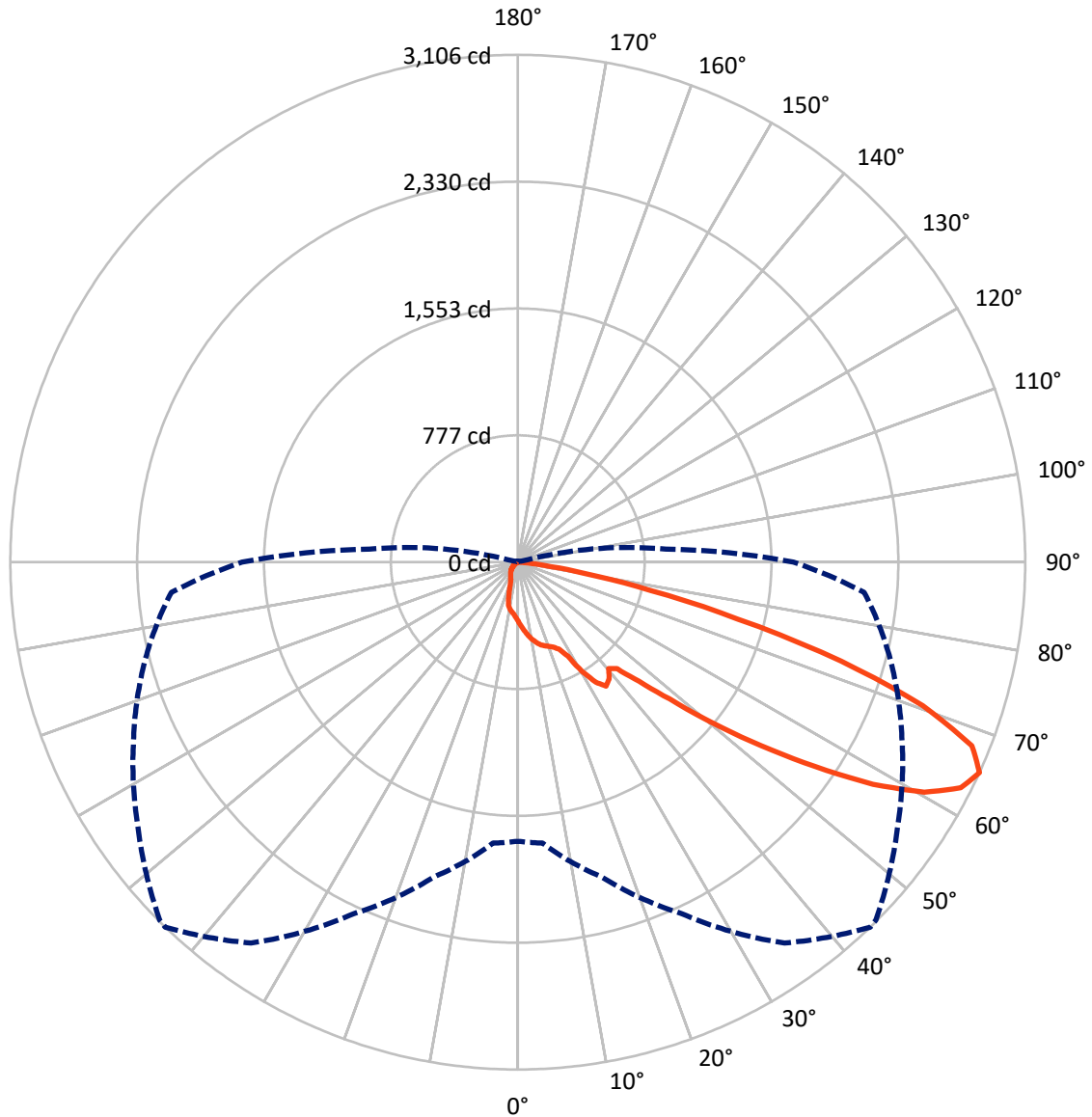
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type 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	357.5	0.0	357.5
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	3522.5	0.0	3522.5
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	3880.0	0.0	3880.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	0.9
10°-20°	108.1	2.8
20°-30°	183.3	4.7
30°-40°	304.8	7.9
40°-50°	532.1	13.7
50°-60°	1039.5	26.8
60°-70°	1206.1	31.1
70°-80°	439.2	11.3
80°-90°	31.0	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°	3880.0	100.0
0°-180°	3880.0	100.0

**Coefficient of Utilization**



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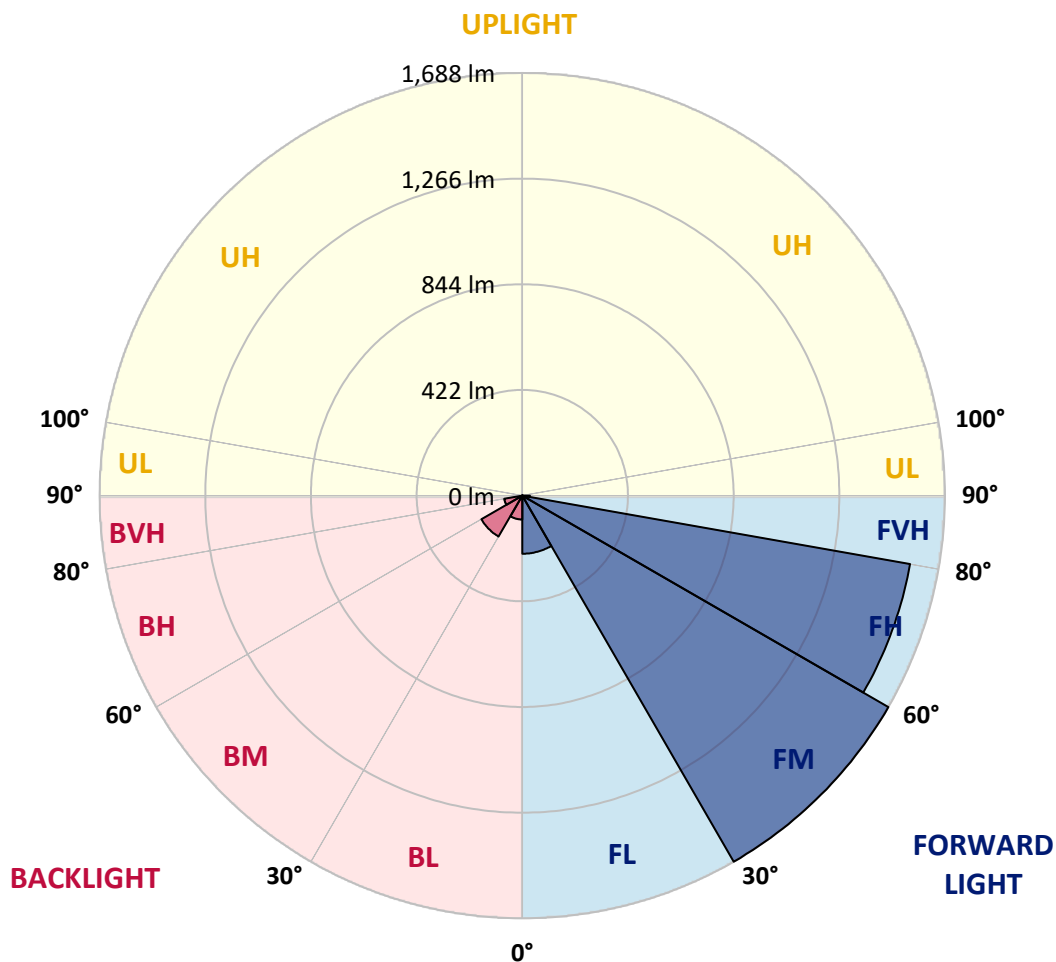
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	232.1	6.0			
FM	(30°-60°)	1687.8	43.5			
FH	(60°-80°)	1572.1	40.5			G1/1800
FVH	(80°-90°)	30.5	0.8			G1/100
BL	(0°-30°)	95.2	2.5	B0/110		
BM	(30°-60°)	188.6	4.9	B0/220		
BH	(60°-80°)	73.2	1.9	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1
2.5°	406.5	404.7	403.8	399.1	395.5	391.1	391.1	385.4	378.9	371.8	365.3
5°	451.8	448.9	445.0	440.9	432.6	420.7	420.7	408.8	395.2	383.1	369.7
7.5°	495.4	492.7	486.2	478.2	464.6	452.1	451.2	434.0	417.7	399.4	380.4
10°	533.7	531.6	526.0	510.5	496.3	480.0	479.7	460.4	441.5	418.9	395.5
12.5°	560.3	560.6	553.2	538.4	520.0	504.6	503.4	484.4	464.6	440.3	411.5
15°	579.3	579.3	571.6	555.0	538.4	524.8	523.6	507.0	486.5	460.1	429.0
17.5°	584.7	586.4	578.1	563.3	550.0	538.1	537.8	523.9	507.6	482.1	446.8
20°	582.6	584.4	577.8	566.3	557.1	550.3	549.4	543.7	528.6	504.6	465.8
22.5°	578.1	579.9	575.2	568.4	563.9	566.0	564.5	569.2	561.2	532.2	488.3
25°	579.0	580.8	577.2	573.4	577.2	590.0	593.8	614.3	607.2	567.2	512.6
27.5°	606.9	610.5	605.4	607.2	620.8	650.5	657.9	693.2	661.7	611.6	550.6
30°	668.9	666.5	657.0	665.6	713.0	775.9	773.8	768.2	719.0	662.9	595.6
32.5°	725.2	723.1	722.5	759.6	845.6	876.1	874.6	820.1	770.3	721.6	640.1
35°	748.0	740.0	738.2	828.1	971.9	931.5	922.3	841.4	832.5	785.7	685.5
37.5°	816.8	811.2	783.6	839.3	921.5	908.1	901.0	878.2	898.9	842.3	736.8
40°	958.5	942.8	917.9	863.3	850.0	855.6	862.8	925.3	977.5	919.7	805.2
42.5°	1134.6	1131.1	1084.8	983.1	883.2	890.9	900.1	1023.7	1090.5	1036.2	917.0
45°	1346.0	1351.1	1284.4	1164.3	1033.2	1039.8	1053.1	1169.0	1243.4	1217.3	1092.8
47.5°	1538.1	1534.3	1511.8	1386.9	1266.0	1251.4	1273.1	1355.5	1455.1	1459.3	1311.0
50°	1731.4	1751.9	1718.4	1669.5	1579.6	1549.1	1541.1	1581.4	1733.2	1713.4	1573.1
52.5°	2009.2	2019.9	1957.1	1944.6	1965.1	1866.0	1858.0	1867.8	2003.6	1935.4	1769.4
55°	2183.9	2177.6	2154.2	2251.5	2332.4	2208.8	2198.7	2159.3	2228.0	2092.3	1958.2
57.5°	2239.0	2247.9	2302.5	2478.3	2669.8	2564.8	2546.5	2434.4	2389.9	2238.4	2132.0
60°	2214.4	2230.7	2348.4	2609.9	2875.6	2859.8	2844.1	2655.9	2506.1	2360.6	2253.8
62.5°	2039.2	2062.0	2250.3	2586.5	2945.2	3043.4	3023.8	2794.0	2583.5	2419.9	2275.2
65°	1708.9	1725.8	1996.2	2373.9	2846.2	3106.2	3099.1	2837.3	2595.7	2365.6	2129.0
67.5°	1218.2	1275.8	1526.3	2000.6	2553.3	2998.9	3011.0	2785.4	2481.5	2131.1	1763.2
70°	765.8	804.9	984.6	1432.3	2046.9	2631.0	2671.0	2547.9	2153.6	1661.2	1180.3
72.5°	365.3	394.3	522.4	906.6	1444.7	2070.0	2101.7	2091.7	1665.3	1046.6	609.0
75°	162.8	173.7	249.3	462.8	932.7	1391.4	1473.5	1487.1	1040.6	512.0	236.9
77.5°	83.0	83.3	116.8	224.1	465.8	830.1	846.4	894.2	564.2	225.6	82.4
80°	44.2	47.1	62.0	105.8	241.6	408.8	406.8	447.1	250.2	110.6	27.6
82.5°	19.9	21.9	35.0	55.4	118.0	155.1	167.2	182.9	107.3	70.6	12.2
85°	5.9	7.1	17.2	27.9	42.7	44.8	50.1	64.6	60.8	50.1	6.2
87.5°	0.9	0.9	7.1	7.7	6.2	8.0	8.3	9.2	19.6	18.4	3.3
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°	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1	361.1
2.5°	361.7	359.6	352.2	346.0	340.7	337.4	333.5	331.2	330.0	329.1	329.4
5°	363.2	358.1	345.4	335.3	327.6	319.3	313.7	310.4	308.9	306.6	306.6
7.5°	371.5	363.5	345.7	330.3	316.9	305.7	295.0	291.1	288.5	287.9	287.3
10°	383.3	373.3	349.0	327.6	308.6	293.2	278.1	264.8	254.4	248.2	247.3
12.5°	398.2	383.6	354.0	325.8	301.5	274.2	234.2	207.2	189.2	183.5	184.4
15°	411.8	396.1	359.0	324.3	288.5	227.4	182.0	151.2	142.0	141.1	141.4
17.5°	428.1	409.4	365.0	322.3	252.6	173.7	135.2	126.9	128.7	131.6	131.3
20°	445.0	423.7	372.1	309.8	201.6	130.7	119.5	120.4	123.0	125.7	126.3
22.5°	463.1	440.0	380.4	279.9	153.9	113.8	113.3	114.4	117.1	120.1	120.7
25°	488.0	460.4	386.6	240.7	116.5	105.3	106.4	108.5	110.9	114.1	114.7
27.5°	520.0	488.0	389.9	189.7	100.8	97.5	97.8	100.8	103.8	106.7	106.7
30°	561.5	520.9	383.3	143.5	93.1	90.1	88.9	90.7	94.6	97.5	97.8
32.5°	598.6	552.0	366.2	109.7	87.5	83.3	80.3	80.6	82.1	83.9	84.2
35°	635.7	582.3	336.8	92.2	81.5	76.8	72.3	70.0	68.8	67.9	68.8
37.5°	683.1	619.9	297.7	83.9	76.5	70.6	64.3	59.3	55.1	52.5	53.1
40°	744.2	672.1	251.4	78.6	71.7	64.6	56.3	49.8	42.7	40.3	39.1
42.5°	845.0	751.3	202.8	74.1	67.0	58.4	48.0	39.1	32.6	30.2	30.8
45°	1004.2	851.2	156.2	69.4	62.3	51.6	40.3	30.8	25.5	24.3	24.9
47.5°	1215.3	980.5	120.4	64.0	56.3	44.2	31.7	24.3	21.1	20.8	20.5
50°	1413.9	1100.8	100.5	58.1	49.2	36.8	26.1	20.5	18.4	18.1	18.1
52.5°	1593.6	1187.1	81.8	51.3	41.5	30.2	21.9	18.1	16.3	15.4	15.4
55°	1753.4	1243.4	66.4	43.0	32.6	24.0	19.0	16.3	14.2	13.0	12.7
57.5°	1874.0	1250.3	49.8	34.4	24.3	18.7	16.3	14.2	11.9	10.4	9.8
60°	1925.6	1191.3	36.8	26.1	18.1	14.8	13.0	11.6	8.9	7.4	7.1
62.5°	1873.8	1076.5	27.3	19.9	13.9	11.0	9.2	8.6	6.2	4.4	4.2
65°	1687.9	910.8	21.6	15.1	10.4	8.0	5.9	5.6	3.9	2.1	1.8
67.5°	1352.2	713.3	17.2	11.3	7.4	5.3	3.9	3.6	2.1	0.6	0.6
70°	879.4	456.0	13.9	8.3	4.7	3.6	2.4	1.8	1.2	0.3	0.0
72.5°	434.9	213.2	11.3	6.5	3.3	1.8	0.9	0.6	0.9	0.0	0.0
75°	168.7	75.9	8.3	4.4	1.8	0.9	0.6	0.0	0.3	0.0	0.0
77.5°	56.0	25.2	5.0	2.4	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	20.8	9.8	2.7	1.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	3.9	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.4	1.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.8	1.2	0.9	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)