

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: P458552

Luminaire Tested: **GALN-SA1B-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4412 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

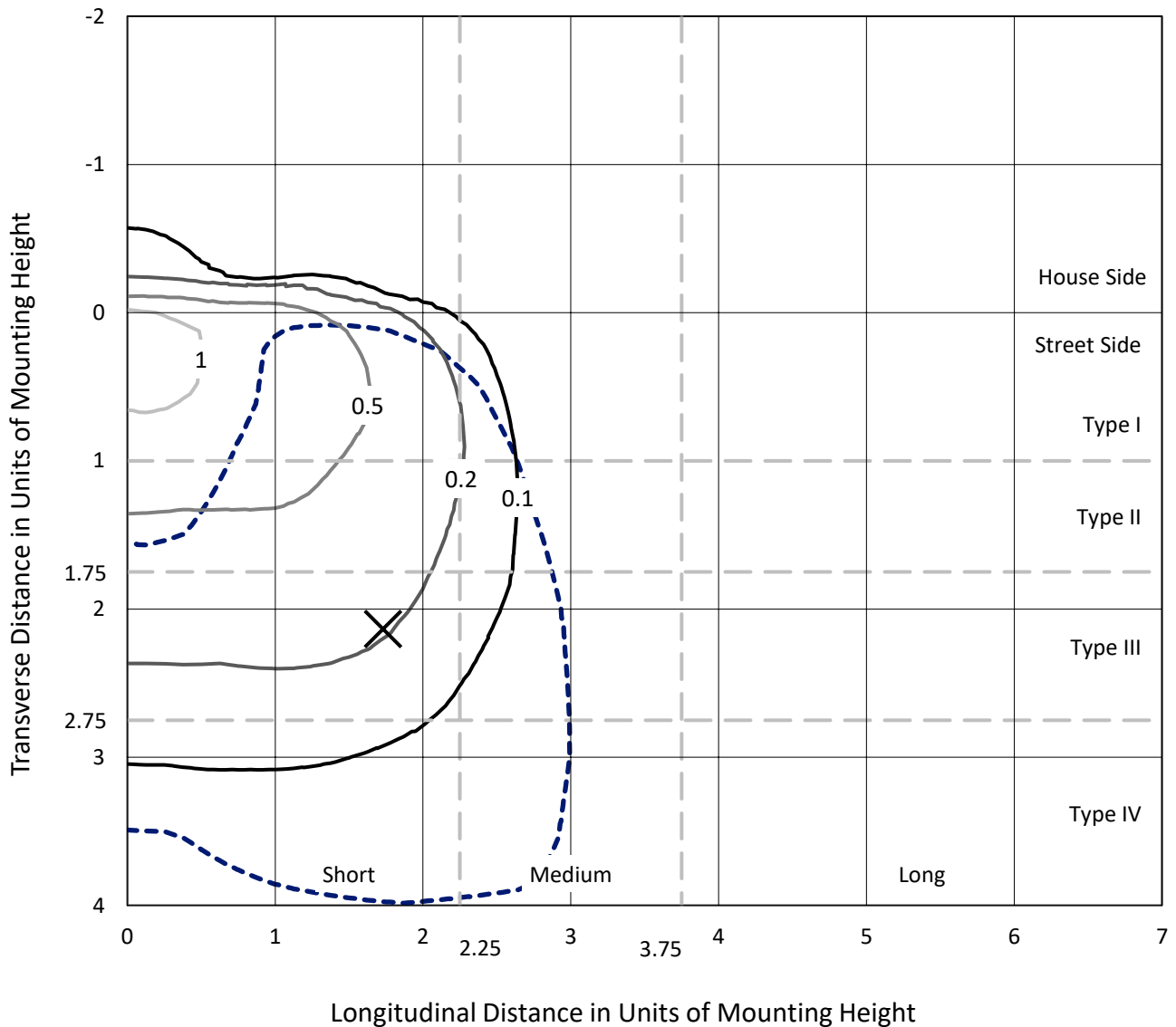
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

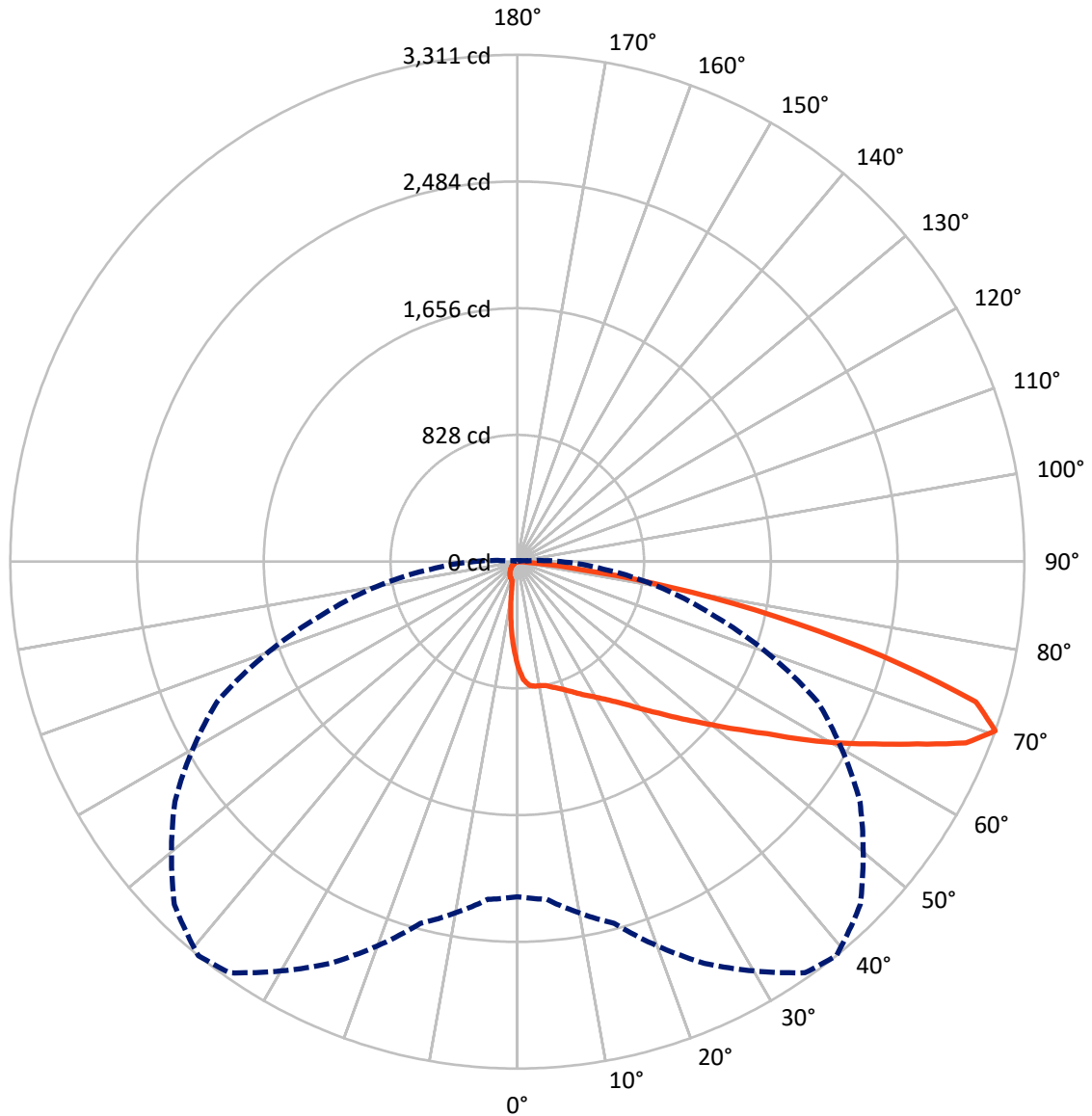
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	287.7	0.0	287.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4124.3	0.0	4124.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	4412.0	0.0	4412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.3
10°-20°	152.6	3.5
20°-30°	255.6	5.8
30°-40°	396.4	9.0
40°-50°	628.3	14.2
50°-60°	920.9	20.9
60°-70°	1180.4	26.8
70°-80°	741.7	16.8
80°-90°	77.3	1.8
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°	4412.0	100.0
0°-180°	4412.0	100.0

Coefficient of Utilization



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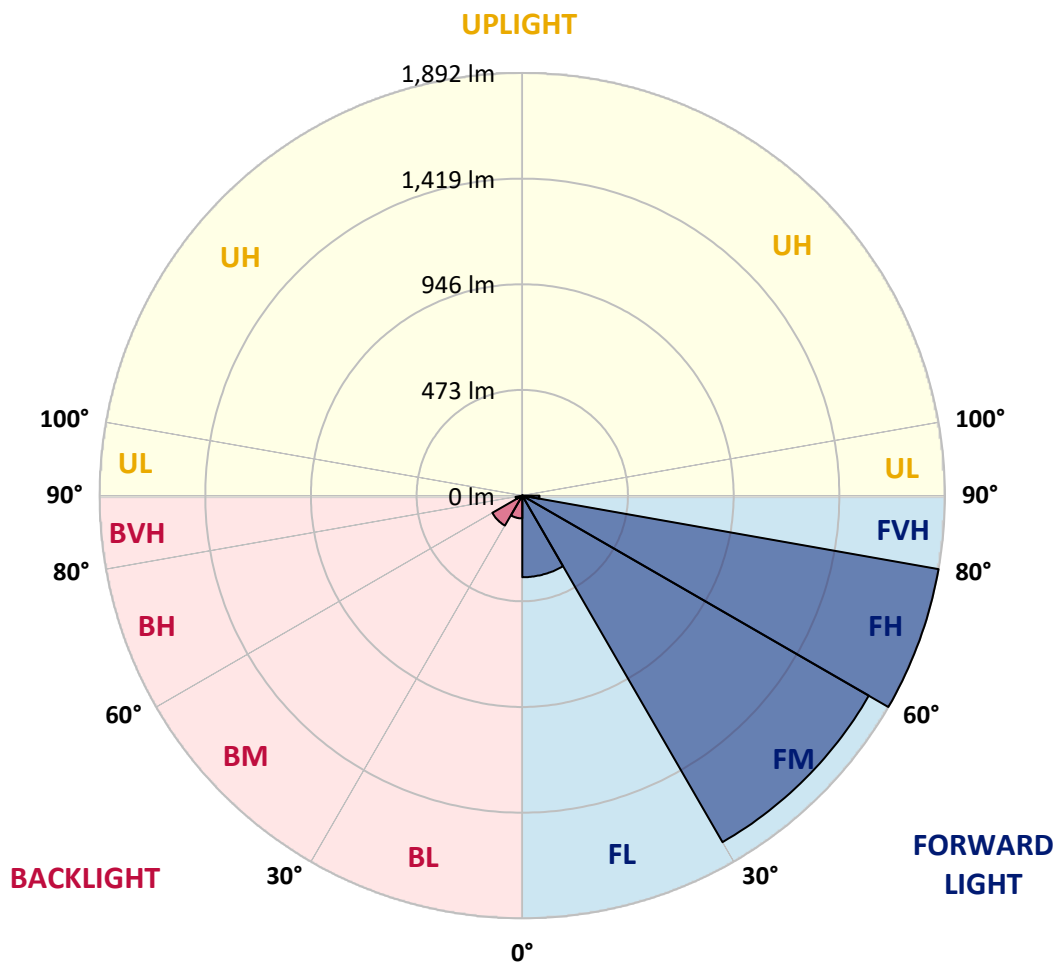
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.1	8.3			
FM (30°-60°)	1790.8	40.6			
FH (60°-80°)	1891.7	42.9			G2/5000
FVH (80°-90°)	76.7	1.7			G1/100
BL (0°-30°)	101.9	2.3	B0/110		
BM (30°-60°)	154.8	3.5	B0/220		
BH (60°-80°)	30.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	795.5	792.8	789.2	785.1	773.2	771.1	764.0	748.9	730.8	716.0	695.5
5°	833.1	834.6	831.9	824.5	815.9	810.9	802.0	778.6	755.1	725.2	691.7
7.5°	841.7	844.7	841.4	834.3	826.0	820.7	813.5	793.4	766.1	732.0	686.1
10°	840.8	844.4	842.3	835.8	829.0	823.9	816.2	800.2	778.3	742.4	687.8
12.5°	839.3	844.1	843.8	840.5	834.9	831.0	826.3	812.1	791.6	757.5	697.6
15°	835.2	841.1	846.4	849.1	849.4	849.4	843.5	828.4	808.8	777.4	710.4
17.5°	837.0	843.8	857.1	864.8	870.2	869.6	863.3	847.0	825.4	797.8	723.7
20°	847.9	857.1	875.8	891.2	896.6	894.8	886.5	867.5	842.9	815.3	736.7
22.5°	874.9	883.2	906.6	924.7	928.6	923.8	912.0	886.2	863.9	834.3	752.5
25°	915.2	925.0	946.7	960.3	960.3	957.6	941.0	910.8	887.7	860.7	772.9
27.5°	964.1	972.4	993.8	1006.0	998.8	991.1	974.5	938.1	915.8	893.9	797.5
30°	1013.7	1019.0	1041.5	1046.9	1039.5	1029.7	1011.9	975.4	955.8	938.9	833.1
32.5°	1060.5	1072.1	1090.7	1089.6	1079.5	1074.7	1058.4	1019.6	1008.6	1006.8	882.9
35°	1107.3	1116.2	1132.8	1137.0	1128.1	1127.2	1115.4	1086.6	1086.9	1098.5	960.6
37.5°	1147.7	1155.7	1175.2	1184.4	1186.2	1190.7	1185.9	1166.9	1193.9	1225.6	1063.5
40°	1181.5	1192.7	1217.6	1233.6	1252.0	1268.3	1269.2	1273.4	1327.6	1382.2	1197.8
42.5°	1207.9	1223.6	1259.7	1289.4	1331.5	1352.2	1368.8	1391.7	1483.0	1564.5	1356.1
45°	1242.2	1260.3	1305.4	1351.9	1417.8	1451.9	1475.0	1536.1	1665.6	1776.8	1518.6
47.5°	1299.2	1308.7	1354.6	1422.5	1509.1	1557.7	1602.8	1695.3	1861.6	1961.2	1653.8
50°	1372.4	1378.6	1413.3	1507.6	1619.7	1683.7	1765.8	1874.6	2065.0	2114.2	1730.2
52.5°	1453.3	1455.4	1481.5	1601.3	1743.6	1824.2	1916.1	2050.4	2230.7	2223.3	1780.9
55°	1547.3	1544.4	1566.6	1703.0	1890.3	1982.6	2089.6	2230.4	2374.5	2300.7	1810.0
57.5°	1654.9	1646.9	1668.6	1837.9	2078.3	2188.6	2297.4	2385.8	2486.0	2365.6	1823.9
60°	1767.6	1751.6	1777.4	1989.4	2299.8	2404.4	2494.9	2518.6	2603.4	2417.2	1799.9
62.5°	1857.4	1857.7	1905.8	2150.7	2527.5	2619.1	2667.1	2688.5	2704.5	2405.9	1673.6
65°	1997.7	2002.4	2079.2	2374.5	2791.0	2870.5	2903.4	2834.0	2708.9	2266.0	1483.9
67.5°	2142.4	2157.5	2298.0	2682.8	3095.5	3159.6	3117.2	2862.2	2588.0	1946.7	1125.1
70°	2189.5	2214.4	2445.9	2895.1	3278.2	3311.4	3167.9	2730.9	2163.4	1301.5	566.3
72.5°	2006.3	2046.6	2360.9	2817.7	3161.6	3132.9	2834.3	2290.3	1375.4	494.2	172.8
75°	1414.8	1432.6	1962.1	2337.4	2542.9	2461.4	2156.0	1476.5	565.7	138.8	59.3
77.5°	730.5	721.9	1166.9	1550.9	1813.6	1729.1	1411.8	764.3	214.4	57.8	36.8
80°	377.7	383.9	504.9	812.6	1107.1	1018.7	752.8	354.3	114.1	32.0	28.2
82.5°	211.7	198.6	290.3	354.9	517.7	405.9	288.8	250.8	49.8	19.3	26.7
85°	38.5	40.3	159.2	191.8	179.7	114.1	93.1	167.5	14.5	10.7	18.7
87.5°	0.6	0.6	30.8	55.1	35.0	16.0	29.4	24.0	3.0	4.2	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°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	685.2	673.9	652.8	632.1	605.7	584.1	569.5	554.4	539.0	540.2	543.7
5°	673.3	653.7	612.2	568.3	526.2	488.3	450.9	417.4	403.8	391.4	391.9
7.5°	661.4	633.9	573.1	504.3	440.6	375.9	329.1	290.5	270.1	254.7	250.2
10°	656.1	619.6	537.2	442.6	352.2	281.7	221.5	190.0	165.7	158.0	160.1
12.5°	658.5	612.5	504.9	386.9	279.3	196.3	154.2	138.2	132.8	131.9	131.3
15°	662.9	607.5	473.2	325.2	205.2	145.9	129.6	126.6	126.0	125.4	125.7
17.5°	668.9	603.0	439.4	267.4	157.4	127.5	122.7	121.3	121.0	121.0	121.0
20°	674.8	598.0	401.7	215.8	131.3	120.4	117.4	116.5	116.2	116.2	115.9
22.5°	681.6	593.6	363.5	169.6	121.0	115.3	112.7	112.1	111.8	111.5	111.5
25°	691.4	587.9	322.9	138.8	114.4	110.6	107.9	107.3	107.0	105.8	106.1
27.5°	704.4	583.8	281.1	119.8	108.5	104.7	102.9	102.0	101.4	100.5	100.8
30°	722.2	580.2	236.6	109.4	101.7	98.4	96.7	96.1	95.5	94.6	94.6
32.5°	753.1	581.7	189.7	101.1	95.5	91.6	89.8	89.2	88.6	87.8	87.8
35°	799.3	590.3	151.8	94.0	88.1	84.2	82.4	82.4	81.5	80.3	80.0
37.5°	874.9	612.2	121.9	87.2	80.9	77.4	75.3	74.7	73.8	72.0	71.7
40°	964.1	646.3	102.6	80.3	74.4	70.9	69.1	67.3	64.9	63.1	62.9
42.5°	1076.2	681.3	88.9	73.5	68.2	64.9	62.9	59.9	56.3	54.0	53.7
45°	1193.0	713.3	79.8	67.3	62.3	59.6	57.2	52.5	48.0	45.1	44.8
47.5°	1280.2	719.3	72.3	61.4	57.2	54.6	51.3	45.4	39.4	36.8	35.9
50°	1321.4	690.5	64.6	55.4	52.2	49.2	45.1	38.2	31.7	28.5	27.9
52.5°	1335.9	640.7	58.4	50.1	47.1	43.6	38.5	30.8	24.9	21.6	21.3
55°	1330.0	577.8	52.8	45.1	41.2	37.1	32.0	24.6	18.4	15.7	15.1
57.5°	1298.9	497.8	47.1	40.0	35.3	31.1	25.5	18.4	12.5	10.1	9.8
60°	1215.0	388.7	41.5	34.4	29.9	25.5	20.2	13.0	7.7	5.6	5.6
62.5°	1073.3	288.5	36.2	28.8	25.2	20.5	14.2	8.3	4.2	3.0	2.7
65°	896.8	212.9	30.2	24.3	21.0	16.0	10.1	5.0	2.1	0.9	0.6
67.5°	625.9	131.3	25.2	19.9	17.2	11.6	6.2	2.1	0.9	0.0	0.0
70°	284.3	62.6	19.3	15.1	13.0	8.3	3.3	1.2	0.6	0.0	0.0
72.5°	88.4	32.9	13.6	11.0	8.9	5.3	1.8	0.9	0.6	0.0	0.0
75°	40.9	21.0	8.6	5.9	5.0	2.7	1.2	0.6	0.3	0.0	0.0
77.5°	30.5	16.3	5.0	3.3	2.7	1.8	0.9	0.6	0.3	0.0	0.0
80°	26.7	8.3	3.0	2.1	1.5	1.2	0.6	0.3	0.0	0.0	0.0
82.5°	24.0	4.2	1.8	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
85°	13.0	2.4	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	0.9	0.6	0.6	0.3	0.3	0.3	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)