

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: P648223

Luminaire Tested: **GALN-SA1B-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2659.1 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

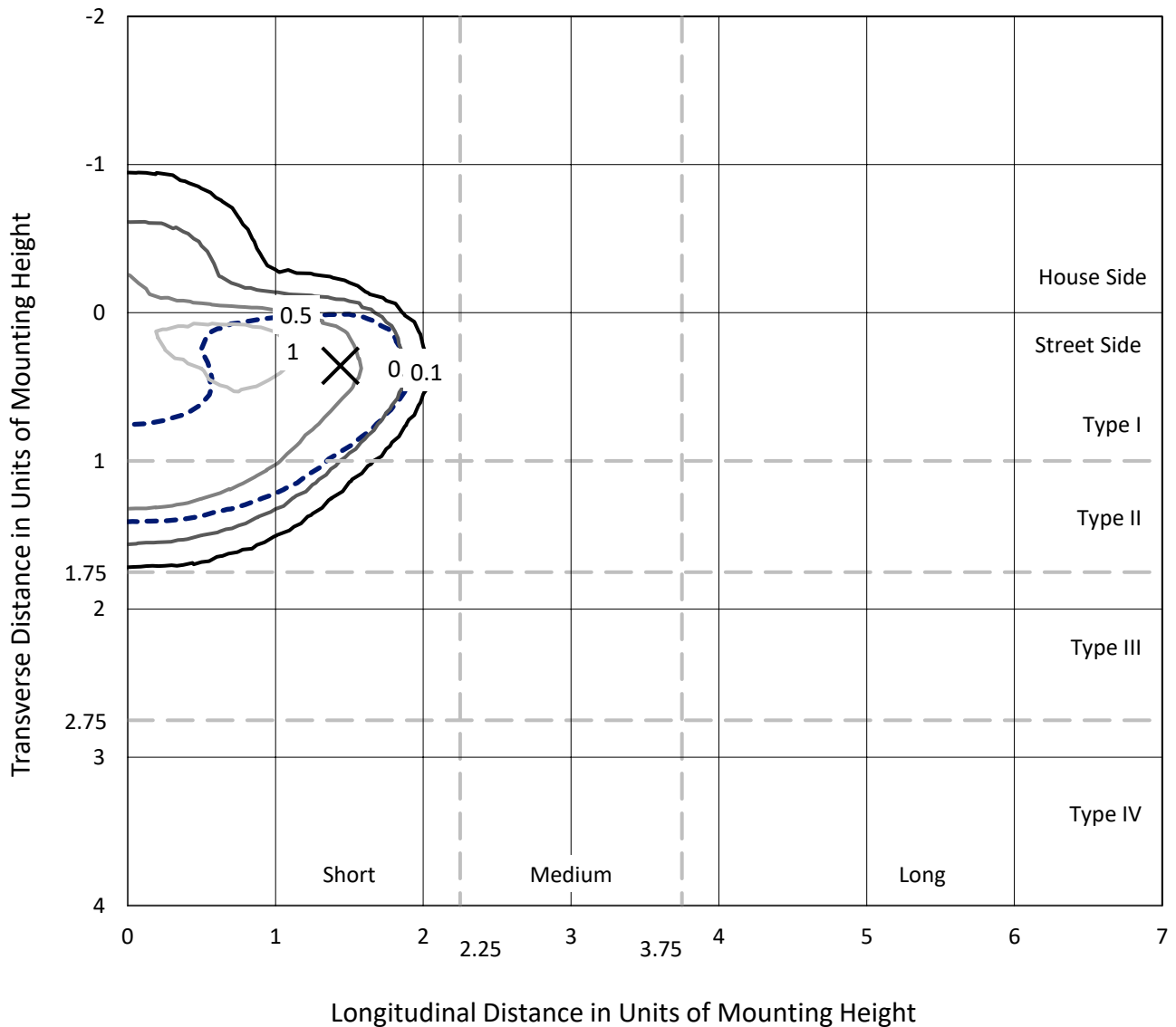
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

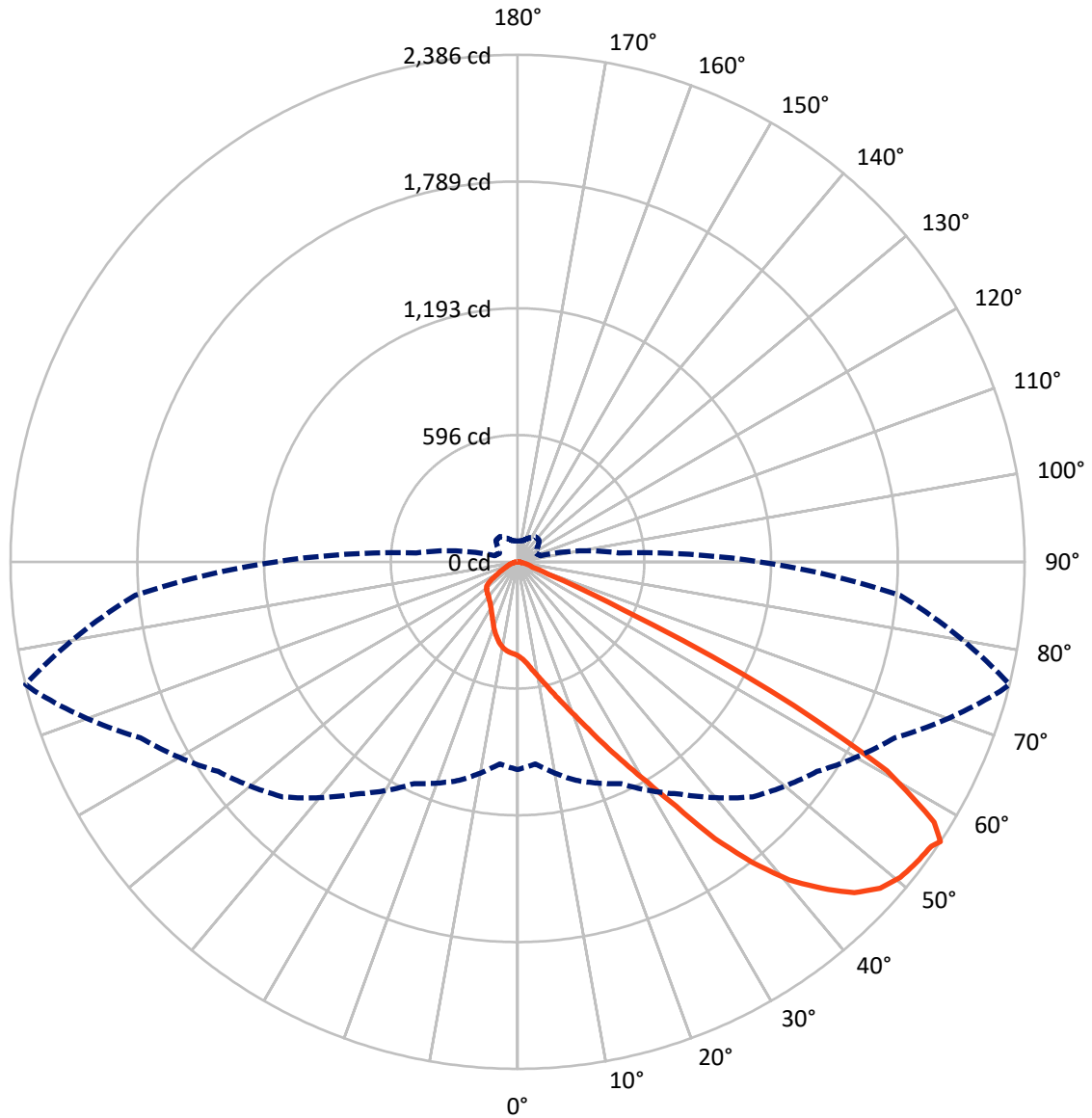
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	417.7	0.0	417.7
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	2241.3	0.0	2241.3
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	2659.1	0.0	2659.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	1.7
10°-20°	143.2	5.4
20°-30°	259.7	9.8
30°-40°	447.9	16.8
40°-50°	727.7	27.4
50°-60°	767.0	28.8
60°-70°	234.4	8.8
70°-80°	30.0	1.1
80°-90°	4.6	0.2
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°	2659.1	100.0
0°-180°	2659.1	100.0

**Coefficient of Utilization**

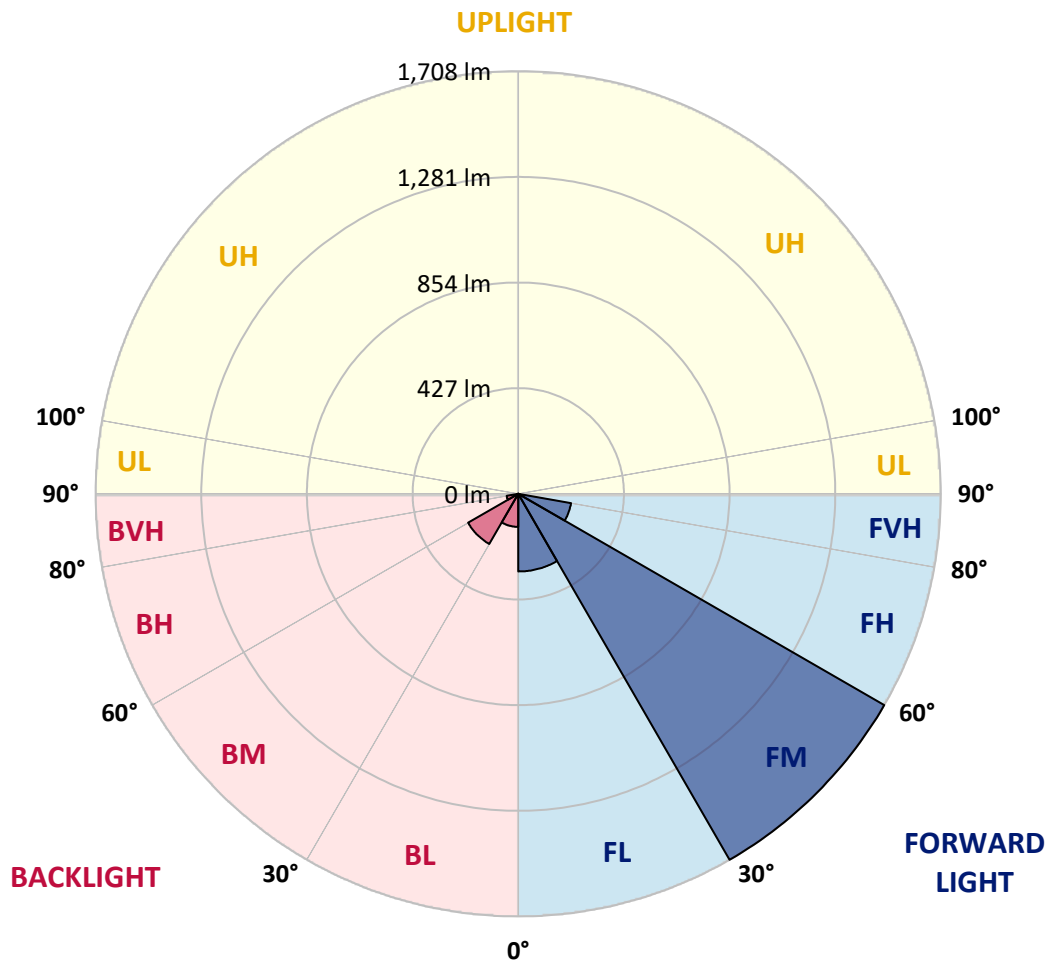


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.9	11.8			
FM (30°-60°)	1708.4	64.2			
FH (60°-80°)	216.7	8.2			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	133.6	5.0	B1/500		
BM (30°-60°)	234.1	8.8	B1/1000		
BH (60°-80°)	47.7	1.8	B0/110		G0/110
BVH (80°-90°)	2.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6
2.5°	509.7	498.0	498.5	497.5	496.0	490.6	474.5	472.0	461.3	458.3	448.5
5°	571.0	560.7	566.6	557.8	549.4	544.6	518.1	505.8	488.7	482.3	468.5
7.5°	609.3	604.3	602.4	602.9	595.1	582.8	571.0	544.0	521.0	516.2	487.2
10°	627.9	624.9	627.9	626.4	629.8	631.3	610.7	594.5	560.7	552.4	507.3
12.5°	632.3	638.1	640.7	647.0	655.3	669.5	668.1	646.1	601.0	595.5	538.2
15°	643.1	648.0	645.5	655.8	671.5	695.5	708.3	704.9	656.3	646.5	573.9
17.5°	652.9	644.1	652.4	673.0	688.6	725.4	756.3	770.6	716.6	705.3	606.8
20°	666.1	663.7	662.2	672.5	700.4	749.4	810.7	836.7	784.3	772.5	653.9
22.5°	706.3	706.8	705.8	690.6	710.7	766.1	858.2	922.5	865.1	855.3	707.3
25°	759.3	752.9	748.0	735.7	733.3	781.3	906.3	1027.4	962.2	955.3	765.1
27.5°	815.1	815.1	800.4	789.1	773.4	819.0	950.4	1129.3	1079.3	1070.0	815.6
30°	875.9	879.3	877.4	853.3	843.5	860.2	995.5	1259.7	1213.6	1201.8	899.0
32.5°	965.6	958.2	966.6	946.5	917.6	932.2	1066.6	1376.4	1388.1	1371.4	1008.3
35°	1084.2	1079.8	1074.4	1041.5	1007.3	1019.0	1167.1	1520.0	1607.2	1598.9	1118.5
37.5°	1190.6	1188.1	1183.7	1161.2	1121.5	1135.7	1281.2	1669.4	1820.9	1793.5	1274.4
40°	1302.4	1315.6	1301.3	1281.2	1245.0	1276.4	1415.6	1758.1	2000.8	1967.4	1393.5
42.5°	1453.8	1443.5	1449.9	1413.1	1393.5	1427.8	1550.3	1846.9	2140.5	2100.8	1520.0
45°	1615.0	1615.6	1598.4	1586.6	1535.6	1572.9	1633.2	1895.9	2251.8	2220.9	1615.6
47.5°	1718.5	1718.0	1736.6	1755.3	1702.8	1666.0	1689.6	1942.5	2309.1	2294.9	1650.3
50°	1702.3	1707.2	1731.2	1800.8	1828.2	1778.7	1742.5	1928.8	2335.1	2333.6	1680.2
52.5°	1480.7	1496.9	1537.1	1637.6	1775.8	1837.1	1797.8	1954.2	2347.8	2350.3	1724.9
55°	1127.4	1136.1	1212.6	1334.7	1487.6	1697.4	1775.8	1974.3	2357.6	2362.0	1778.7
56°	977.9	954.3	1064.6	1151.4	1334.2	1563.6	1719.9	1958.7	2351.7	2385.6	1805.7
57.5°	738.1	722.5	811.7	920.0	1096.0	1338.1	1546.4	1884.6	2312.0	2311.6	1767.0
60°	449.0	433.3	501.9	565.6	664.1	824.0	1045.0	1500.9	1954.7	1995.9	1430.8
62.5°	267.2	276.9	344.6	383.3	415.1	431.8	540.7	892.1	1304.3	1333.7	887.7
65°	177.9	181.3	232.3	296.1	310.3	247.0	220.1	361.3	565.6	547.5	366.1
67.5°	109.8	117.6	155.9	222.5	246.6	180.4	104.4	134.8	155.9	155.9	105.9
70°	66.6	70.5	103.9	151.4	169.1	116.2	76.0	76.0	75.0	73.5	63.3
72.5°	31.9	34.3	52.9	77.9	79.4	61.2	58.8	64.2	62.7	62.2	52.5
75°	13.7	14.7	18.6	24.5	28.0	26.0	35.8	46.0	47.5	46.0	37.7
77.5°	4.4	4.9	6.9	8.8	9.3	11.3	15.2	19.1	22.1	20.6	18.6
80°	0.5	1.0	2.0	4.4	6.9	8.8	11.3	12.8	14.3	14.3	13.2
82.5°	0.5	0.5	2.0	3.9	6.3	8.3	10.8	12.2	14.3	14.7	13.7
85°	0.0	0.5	1.5	3.4	5.4	5.4	4.9	4.9	3.4	3.4	3.4
87.5°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6	442.6
2.5°	446.5	445.5	432.3	424.0	419.5	410.8	405.4	401.4	398.5	395.0	395.6
5°	452.4	449.0	426.9	411.7	393.6	383.8	375.4	368.6	364.2	363.2	361.3
7.5°	469.1	450.9	417.6	390.2	367.1	357.3	350.0	345.5	347.5	343.1	346.6
10°	481.8	454.8	406.3	366.6	343.6	336.2	332.3	335.8	340.7	338.7	336.2
12.5°	497.5	458.8	388.2	344.1	322.5	317.1	324.0	330.3	340.1	344.1	339.2
15°	515.1	463.2	365.2	318.1	304.4	308.8	320.6	331.8	341.6	346.6	349.5
17.5°	536.7	461.7	342.6	297.5	287.2	300.0	314.2	324.5	339.2	346.6	344.6
20°	556.8	456.8	317.6	276.9	277.4	289.2	301.0	317.6	325.5	335.3	331.8
22.5°	575.9	448.0	291.7	262.7	262.7	280.9	286.7	297.5	304.4	309.3	308.8
25°	602.9	431.4	270.1	249.0	254.9	266.6	271.5	275.0	272.0	275.9	276.5
27.5°	622.0	414.2	252.4	236.8	247.5	256.4	254.9	252.9	246.0	240.7	244.1
30°	642.6	394.1	237.2	228.4	234.3	242.1	236.2	230.4	219.6	210.8	211.3
32.5°	672.0	384.8	224.0	218.6	226.4	227.5	221.0	212.3	201.5	193.1	192.6
35°	726.9	378.9	212.7	212.3	213.7	214.2	207.8	197.0	192.6	185.8	188.2
37.5°	781.8	375.9	204.9	203.0	202.4	203.0	195.6	185.3	193.6	193.1	194.1
40°	851.9	389.2	193.6	191.1	191.7	191.7	182.4	179.4	194.1	195.6	196.1
42.5°	922.9	405.8	186.3	178.4	180.4	180.4	175.5	172.0	182.4	172.5	171.1
45°	984.7	430.3	178.4	165.7	170.5	173.0	171.6	165.7	159.3	142.7	142.7
47.5°	1004.8	451.9	169.1	153.4	157.3	168.1	163.7	151.4	140.2	126.5	125.5
50°	1040.1	475.4	161.8	139.2	147.5	160.7	156.4	144.1	131.4	121.5	122.1
52.5°	1076.4	502.4	148.0	122.5	132.8	154.9	154.9	141.2	121.5	114.7	113.7
55°	1130.8	501.4	123.5	100.5	118.6	146.0	148.5	126.5	108.8	103.4	103.4
56°	1138.6	478.9	111.3	94.1	112.3	143.6	144.1	122.5	103.9	98.0	98.0
57.5°	1079.8	432.3	97.6	86.3	104.4	139.2	139.7	119.1	100.0	91.7	90.7
60°	830.8	292.6	81.4	77.0	94.6	125.5	127.9	108.3	87.8	81.4	80.9
62.5°	469.1	162.2	71.6	69.6	81.4	106.9	114.2	94.6	74.5	71.1	72.0
65°	214.2	89.2	60.3	56.4	65.7	82.4	92.2	77.9	61.2	57.3	57.3
67.5°	78.5	60.8	51.4	44.6	46.0	53.4	59.8	50.5	40.7	34.8	36.3
70°	55.9	51.0	45.1	38.8	35.8	34.8	34.3	28.4	20.1	15.7	16.7
72.5°	45.1	42.1	37.7	32.8	28.0	23.5	20.1	14.7	9.3	6.3	5.9
75°	32.3	30.9	27.5	23.5	19.6	16.7	13.7	9.3	4.9	2.4	2.4
77.5°	16.7	16.7	16.2	14.7	12.2	9.8	7.8	5.4	3.0	1.0	1.0
80°	12.8	13.7	14.3	12.8	11.3	8.8	6.3	3.9	2.0	0.5	0.5
82.5°	12.2	14.3	15.2	13.2	11.3	8.3	6.3	3.9	2.0	0.5	0.5
85°	3.0	3.0	4.4	4.9	6.3	6.9	5.4	3.4	1.5	0.5	0.5
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	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)