

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: P651209

Luminaire Tested: **GALN-SA1D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651209  
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-SA1D-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA 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: 4740.7 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

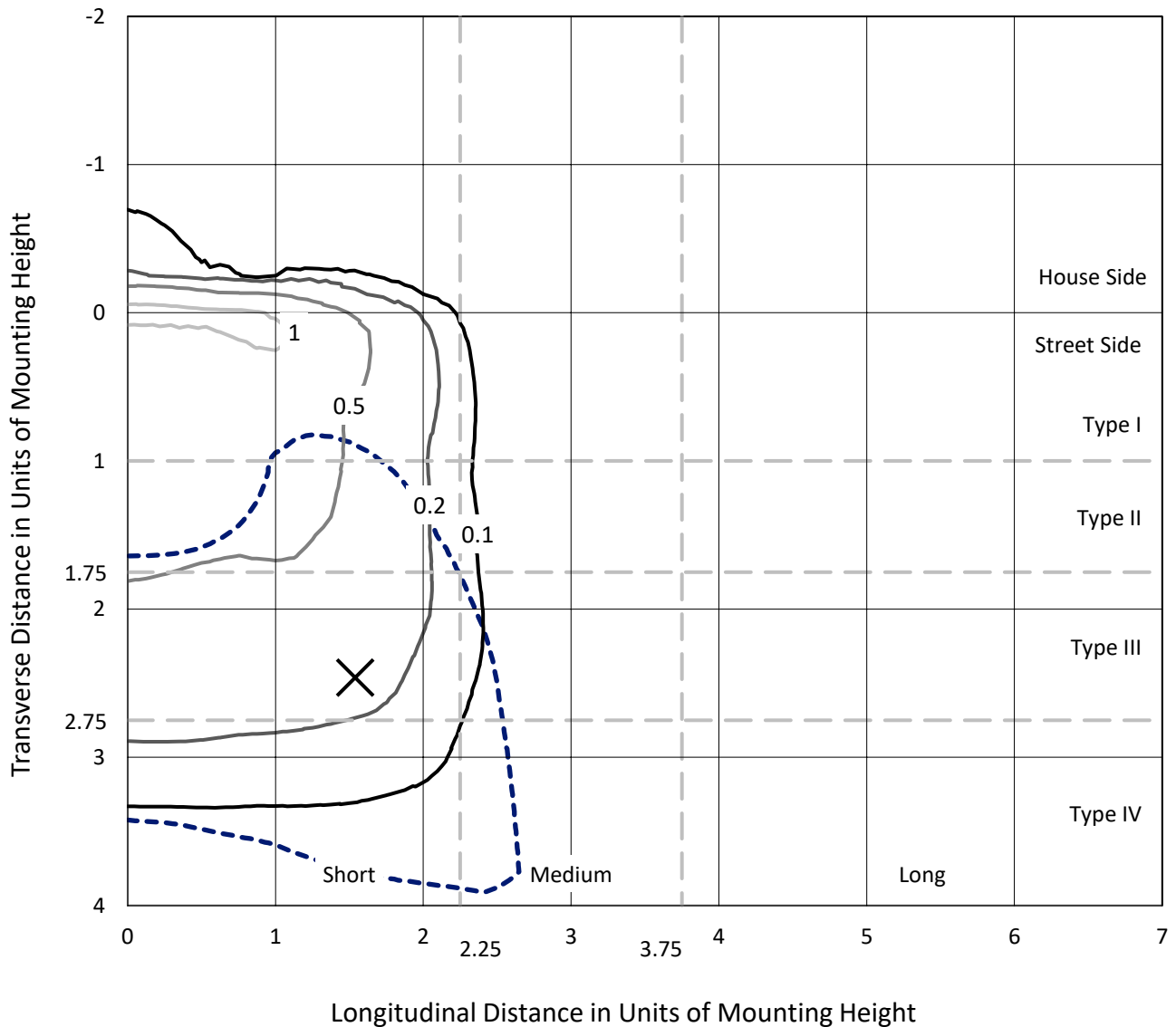
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

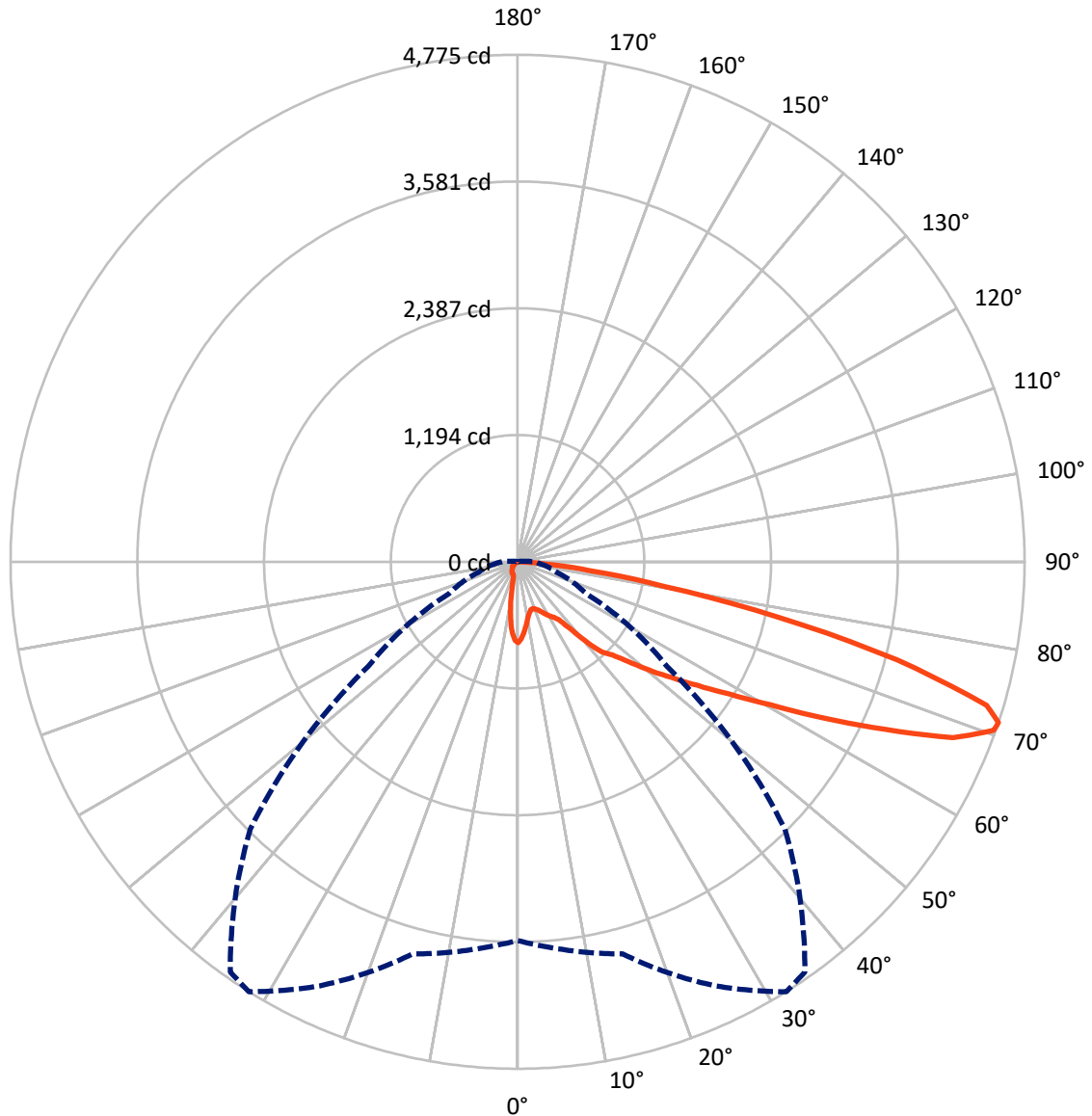
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	397.1	0.0	397.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	4343.6	0.0	4343.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4740.7	0.0	4740.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	1.3
10°-20°	134.5	2.8
20°-30°	209.3	4.4
30°-40°	348.7	7.4
40°-50°	648.6	13.7
50°-60°	1041.4	22.0
60°-70°	1400.8	29.5
70°-80°	831.1	17.5
80°-90°	64.2	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°	4740.7	100.0
0°-180°	4740.7	100.0



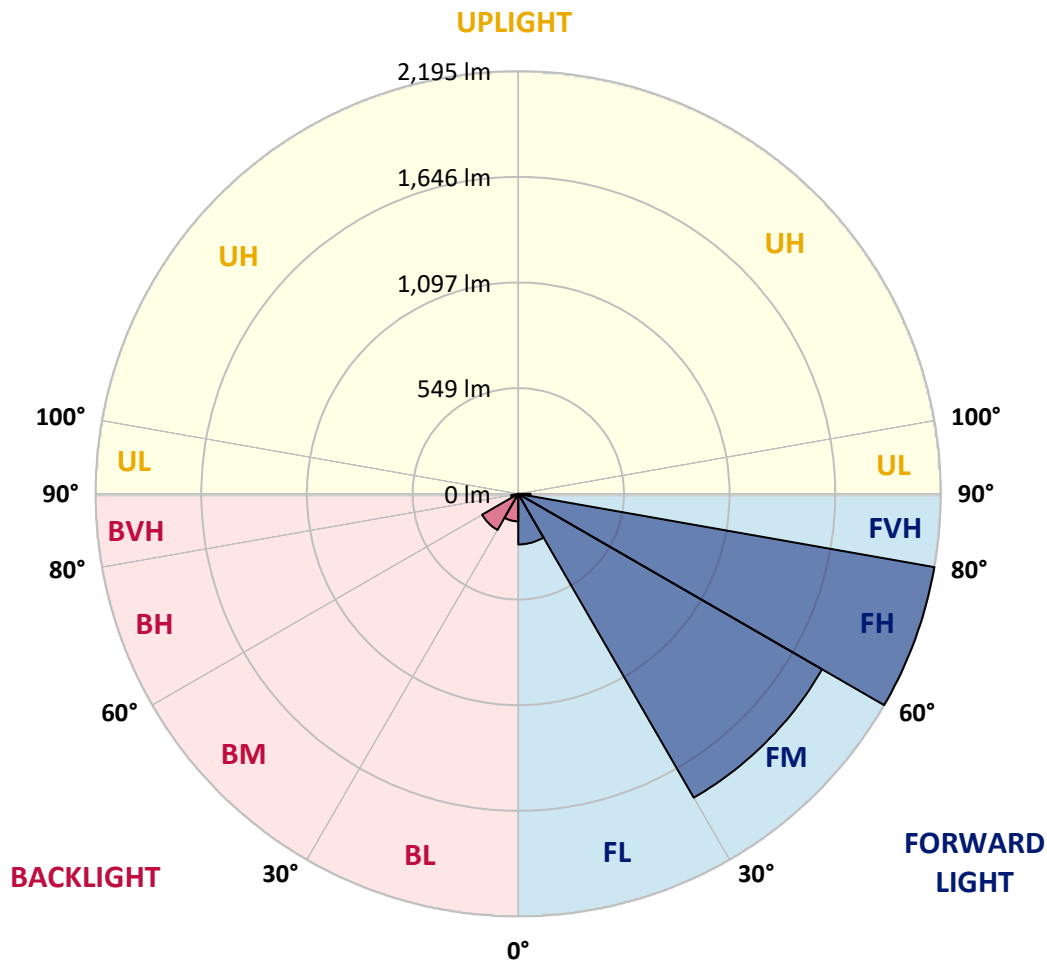
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.8	5.5			
FM (30°-60°)	1822.1	38.4			
FH (60°-80°)	2194.7	46.3			G2/5000
FVH (80°-90°)	64.0	1.3			G1/100
BL (0°-30°)	143.1	3.0	B1/500		
BM (30°-60°)	216.6	4.6	B0/220		
BH (60°-80°)	37.1	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: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4
2.5°	707.0	714.3	713.3	715.8	722.0	724.5	731.4	739.1	749.7	756.9	761.7
5°	633.2	638.7	639.4	652.1	658.3	665.2	685.6	707.8	732.5	752.2	765.3
7.5°	554.2	557.2	563.0	579.7	595.3	602.2	633.2	671.8	710.7	747.5	771.1
10°	489.1	492.4	502.9	520.7	535.3	544.4	587.4	635.7	690.3	744.9	779.5
12.5°	452.0	453.8	457.8	473.8	492.4	502.2	548.4	603.8	674.0	746.0	793.7
15°	449.4	448.7	444.0	450.5	467.3	477.4	522.6	581.9	659.4	749.7	810.4
17.5°	462.9	461.0	449.8	449.8	463.6	472.0	511.7	570.2	652.1	758.0	834.1
20°	483.7	480.7	462.1	460.7	474.2	482.9	518.2	571.0	653.5	773.6	865.7
22.5°	509.8	506.5	478.5	479.3	493.8	502.6	537.1	584.1	662.7	793.0	899.5
25°	544.0	540.4	507.3	505.9	521.1	528.7	565.2	607.4	675.4	816.9	943.9
27.5°	589.5	581.9	542.2	540.0	556.4	566.2	599.0	638.7	697.9	850.1	1003.6
30°	627.0	618.6	580.8	575.0	592.4	600.1	633.9	680.9	742.4	907.9	1086.2
32.5°	676.2	663.8	619.4	604.1	622.7	632.4	684.5	759.5	808.2	969.1	1184.5
35°	786.8	779.1	724.9	671.4	670.3	682.7	759.1	838.8	875.9	1064.5	1318.4
37.5°	945.0	939.6	882.1	810.4	789.7	783.8	849.7	926.1	984.0	1195.4	1474.2
40°	1128.9	1116.1	1063.4	1002.6	975.6	958.5	956.7	1056.0	1125.2	1373.4	1636.5
42.5°	1260.6	1237.3	1173.2	1168.8	1163.0	1145.2	1093.6	1246.0	1307.5	1564.8	1810.1
45°	1398.8	1363.5	1268.2	1251.8	1249.6	1248.5	1300.3	1470.9	1506.2	1772.2	1988.4
47.5°	1506.2	1478.1	1399.9	1392.7	1401.8	1426.5	1573.5	1709.6	1702.4	1957.1	2137.9
50°	1649.2	1628.1	1541.1	1554.9	1601.9	1642.3	1881.7	1969.8	1863.6	2102.7	2246.7
52.5°	1818.1	1779.1	1698.3	1735.8	1807.9	1875.2	2208.9	2197.6	1976.8	2212.2	2327.9
55°	1964.3	1936.7	1909.1	1948.0	2055.7	2139.8	2504.4	2368.3	2058.9	2300.2	2363.5
57.5°	2211.8	2205.3	2176.8	2216.5	2347.1	2434.5	2769.0	2500.8	2111.8	2346.1	2321.7
60°	2577.9	2567.3	2514.6	2565.1	2735.4	2872.7	3012.8	2619.7	2123.8	2328.2	2201.2
62.5°	3018.3	2982.2	2937.1	3011.7	3245.3	3305.7	3242.4	2690.4	2079.0	2186.3	1910.8
65°	3429.4	3392.3	3393.4	3550.6	3805.0	3846.1	3510.2	2679.8	1948.0	1830.8	1409.4
67.5°	3744.2	3738.0	3782.4	4089.2	4421.8	4393.5	3749.7	2521.8	1559.7	1186.7	748.9
70°	3760.2	3772.2	3899.6	4417.4	4755.2	4710.0	3729.3	2049.9	972.4	545.9	295.1
71°	3566.6	3647.4	3823.5	4407.3	4774.8	4716.2	3557.5	1716.9	713.3	380.6	212.9
72.5°	3039.4	3081.9	3462.6	4147.8	4619.4	4494.2	3122.0	1203.5	456.7	232.9	122.3
75°	1673.9	1778.8	2318.8	3254.1	3694.8	3584.8	2034.6	571.7	227.8	127.3	50.5
77.5°	796.9	776.6	1131.4	1935.2	2505.1	2499.3	1025.1	254.0	132.8	86.3	25.5
80°	227.8	256.2	433.0	920.0	1390.8	1406.2	393.8	122.6	92.1	67.4	13.1
82.5°	68.8	70.2	159.0	406.9	691.8	652.1	147.8	62.6	66.3	53.5	7.7
85°	12.0	14.9	46.9	143.4	263.8	200.2	37.1	29.9	43.6	35.3	4.4
87.5°	0.8	1.1	15.6	16.4	23.3	13.5	6.6	4.4	9.5	9.5	2.5
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°	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4	762.4
2.5°	764.9	767.1	765.6	762.4	756.9	750.3	741.7	734.4	728.1	724.9	728.9
5°	769.7	772.5	765.3	748.9	724.2	697.3	666.7	643.0	624.4	618.6	616.5
7.5°	776.9	778.8	759.1	722.8	670.3	606.6	550.9	504.0	467.6	456.7	440.7
10°	786.4	785.3	748.2	680.5	588.4	492.7	406.5	342.5	294.0	276.6	275.1
12.5°	801.0	795.2	734.4	623.0	490.9	365.8	259.1	202.7	172.2	162.0	159.8
15°	819.1	805.3	712.5	555.6	375.9	236.2	159.8	142.6	138.7	137.9	137.2
17.5°	840.6	818.8	683.8	473.1	264.2	153.2	133.6	133.2	133.6	132.8	132.5
20°	869.8	833.0	649.6	375.2	174.7	129.2	127.3	127.3	127.7	127.3	127.3
22.5°	900.6	849.7	607.4	286.4	131.7	122.6	122.3	123.0	123.7	123.4	123.4
25°	938.9	871.5	551.7	196.1	117.9	117.2	117.6	119.0	120.4	120.9	120.4
27.5°	994.2	898.4	492.0	135.0	108.1	108.8	112.4	116.1	118.2	118.7	118.7
30°	1056.4	928.3	414.1	109.5	100.1	100.1	104.5	111.3	116.1	116.8	117.2
32.5°	1136.4	962.9	327.9	98.6	92.4	91.7	95.7	104.1	112.8	115.4	115.4
35°	1235.4	1003.6	243.8	91.7	87.0	85.2	87.3	94.3	105.5	112.8	113.5
37.5°	1351.6	1042.3	178.3	85.5	81.9	79.3	80.8	86.3	95.4	106.2	109.2
40°	1458.9	1076.4	133.2	80.4	76.8	74.9	76.0	78.6	86.3	96.5	98.2
42.5°	1576.0	1103.0	105.9	74.9	71.7	71.0	71.0	72.1	77.1	83.0	83.3
45°	1692.8	1112.5	88.8	68.4	66.3	66.9	66.6	65.9	68.0	67.4	67.4
47.5°	1776.2	1101.2	73.5	62.2	62.2	63.3	61.5	59.0	57.9	53.5	53.8
50°	1833.4	1060.1	60.4	54.9	57.9	59.3	55.7	51.6	47.7	43.0	41.9
52.5°	1857.0	986.9	49.5	45.5	51.3	53.2	48.8	44.1	37.8	33.8	32.7
55°	1841.7	896.7	41.1	37.1	43.3	45.5	41.1	35.7	28.8	24.4	23.6
57.5°	1774.4	788.9	34.9	29.4	34.6	36.0	33.1	27.3	20.4	16.0	16.0
60°	1657.9	677.6	28.4	23.3	25.8	28.0	25.1	19.7	13.8	9.8	9.1
62.5°	1421.8	550.3	23.0	18.2	18.2	20.0	17.5	14.2	8.7	5.1	4.7
65°	1026.6	377.4	18.2	13.5	13.1	13.1	10.9	9.5	5.1	2.2	1.4
67.5°	557.8	212.9	14.5	10.2	9.1	8.7	6.9	5.5	2.2	0.3	0.0
70°	219.4	81.9	11.3	6.9	5.8	5.5	3.6	2.5	1.4	0.0	0.0
71°	148.9	56.4	9.8	5.8	4.7	4.0	2.9	2.2	1.1	0.0	0.0
72.5°	85.2	34.9	7.7	4.4	3.6	2.9	2.2	1.4	1.1	0.0	0.0
75°	37.1	17.8	4.7	3.3	2.5	1.9	1.4	1.1	0.3	0.0	0.0
77.5°	18.9	9.8	3.3	2.5	1.4	1.1	0.8	0.3	0.0	0.0	0.0
80°	10.5	5.1	2.2	1.4	1.1	0.8	0.3	0.3	0.0	0.0	0.0
82.5°	5.8	2.9	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.8	0.0	0.0	0.0	0.0	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)