

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: P450679

Luminaire Tested: **GALN-SA1C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450679  
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-SA1C-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA 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: 4284 lumens  
Efficiency: N/A  
Efficacy: 75.2 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

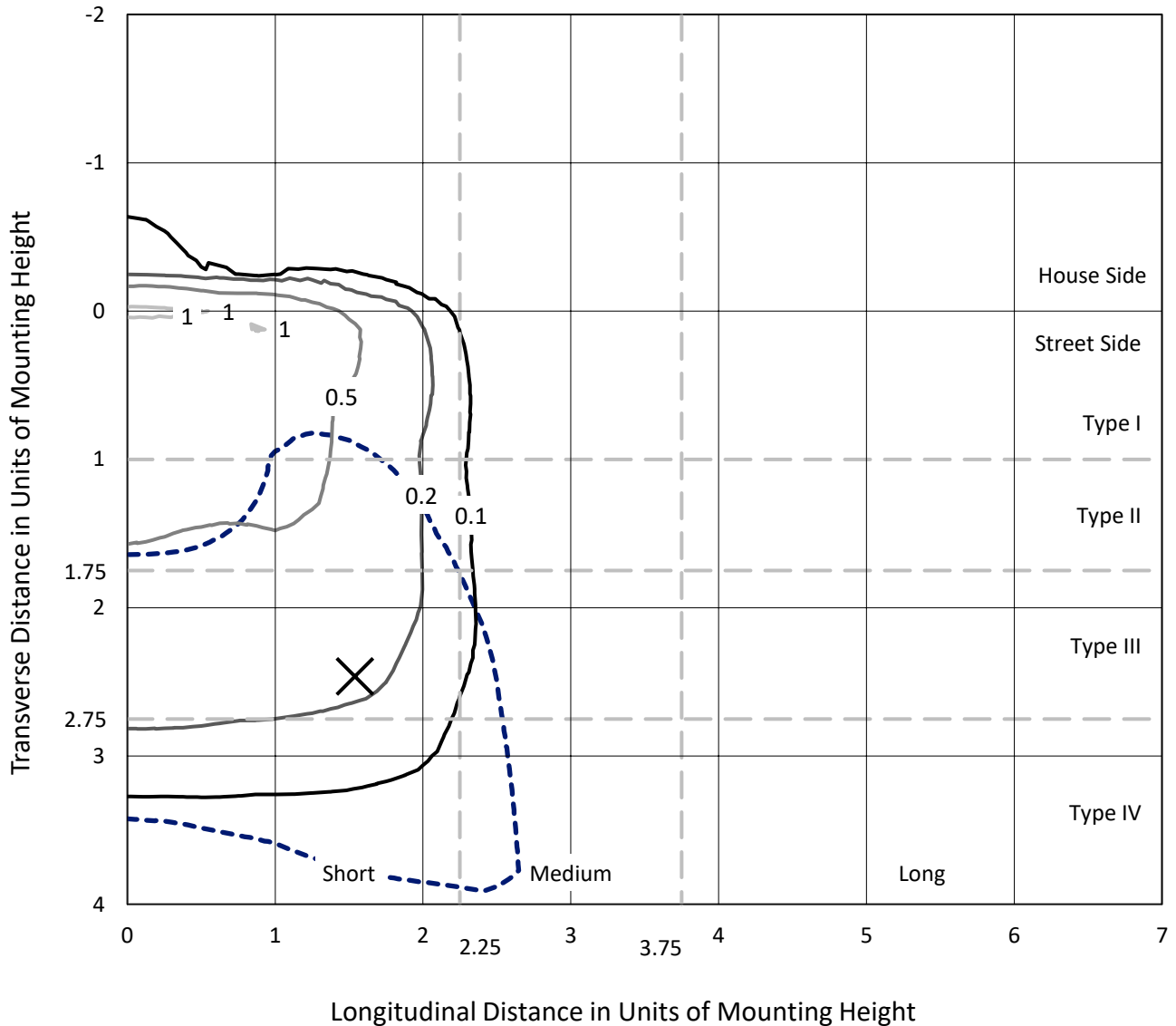
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

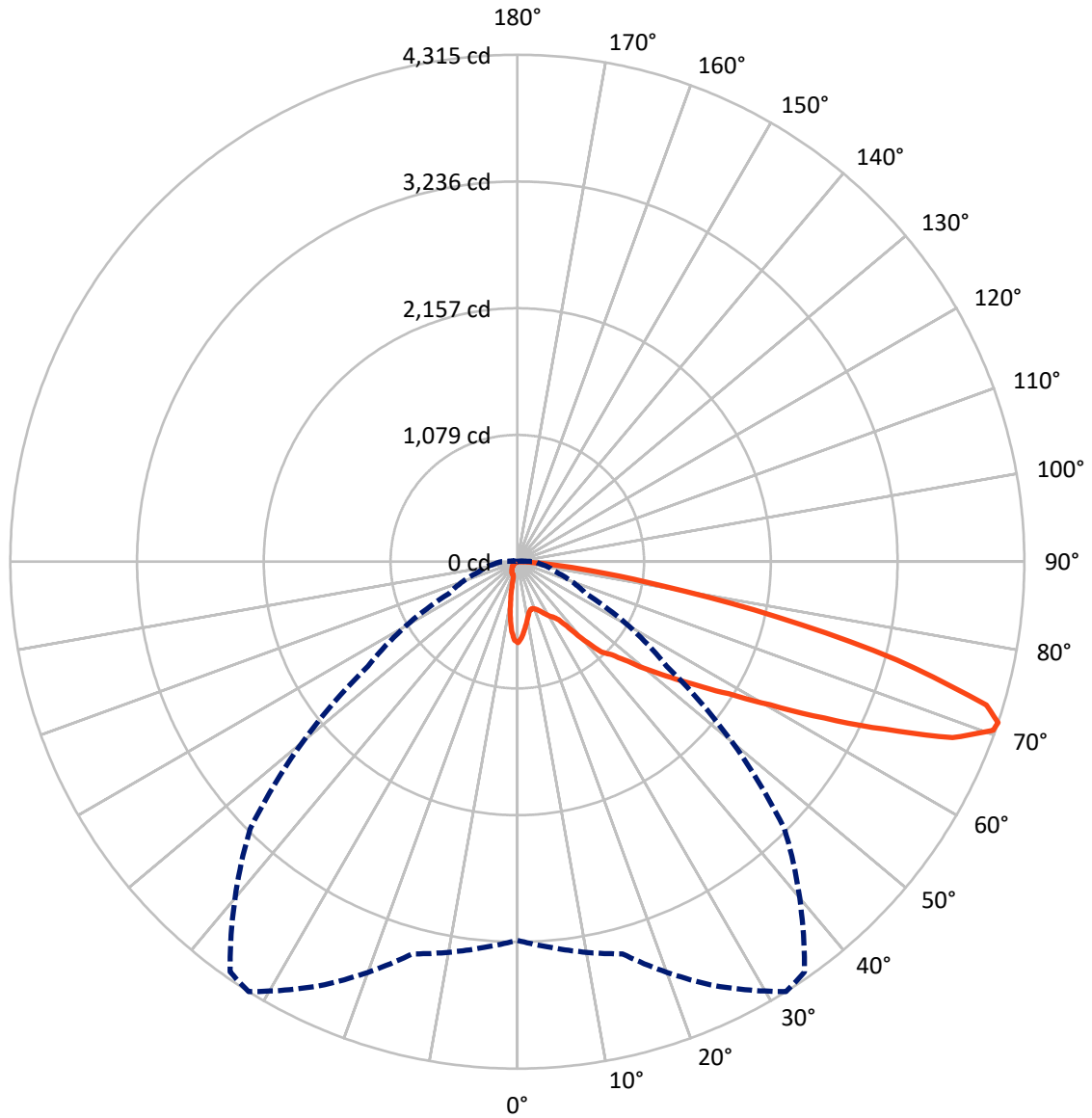
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	358.8	0.0	358.8
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	3925.2	0.0	3925.2
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	4284.0	0.0	4284.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.0	1.3
10°-20°	121.6	2.8
20°-30°	189.1	4.4
30°-40°	315.1	7.4
40°-50°	586.2	13.7
50°-60°	941.1	22.0
60°-70°	1265.8	29.5
70°-80°	751.0	17.5
80°-90°	58.1	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°	4284.0	100.0
0°-180°	4284.0	100.0

**Coefficient of Utilization**



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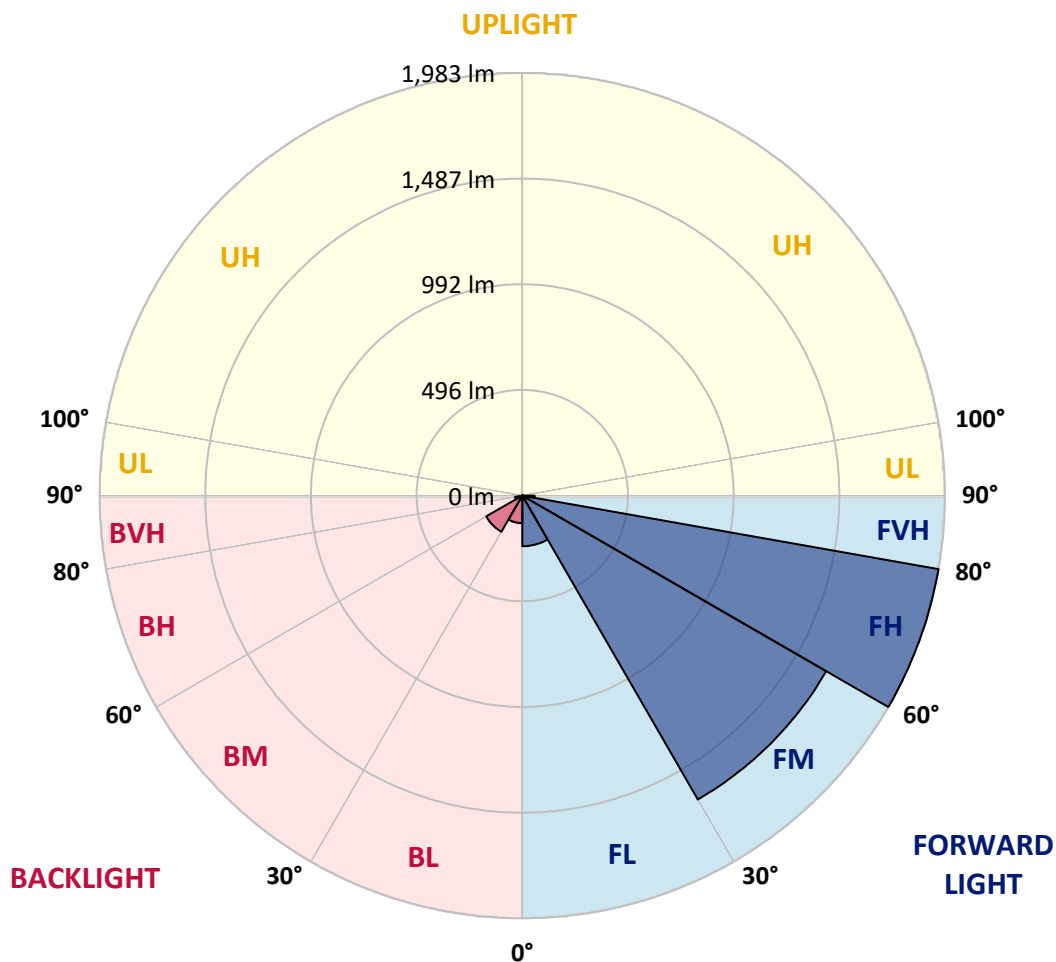
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.4	5.5			
FM	(30°-60°)	1646.6	38.4			
FH	(60°-80°)	1983.3	46.3			G2/5000
FVH	(80°-90°)	57.8	1.3			G1/100
BL	(0°-30°)	129.3	3.0	B1/500		
BM	(30°-60°)	195.7	4.6	B0/220		
BH	(60°-80°)	33.6	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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	638.9	645.5	644.5	646.8	652.4	654.7	661.0	667.9	677.4	684.0	688.3
5°	572.2	577.1	577.8	589.3	594.9	601.1	619.5	639.6	662.0	679.7	691.6
7.5°	500.8	503.5	508.7	523.9	538.0	544.2	572.2	607.1	642.2	675.5	696.8
10°	442.0	444.9	454.5	470.6	483.7	492.0	530.8	574.5	623.8	673.1	704.4
12.5°	408.4	410.1	413.7	428.2	444.9	453.8	495.6	545.6	609.0	674.1	717.2
15°	406.1	405.5	401.2	407.1	422.2	431.4	472.2	525.8	595.9	677.4	732.3
17.5°	418.3	416.6	406.5	406.5	419.0	426.5	462.4	515.3	589.3	685.0	753.7
20°	437.0	434.4	417.6	416.3	428.5	436.4	468.3	516.0	590.6	699.1	782.3
22.5°	460.7	457.8	432.4	433.1	446.2	454.1	485.4	527.8	598.8	716.6	812.9
25°	491.6	488.3	458.4	457.1	470.9	477.8	510.7	548.8	610.3	738.3	853.0
27.5°	532.7	525.8	490.0	488.0	502.8	511.7	541.3	577.1	630.7	768.2	907.0
30°	566.6	559.0	524.8	519.6	535.4	542.3	572.9	615.3	670.8	820.5	981.6
32.5°	611.0	599.8	559.7	545.9	562.7	571.5	618.6	686.3	730.4	875.7	1070.4
35°	711.0	704.1	655.1	606.7	605.7	616.9	686.0	758.0	791.5	961.9	1191.4
37.5°	854.0	849.1	797.1	732.3	713.6	708.3	767.9	836.9	889.2	1080.3	1332.2
40°	1020.1	1008.6	960.9	906.0	881.6	866.2	864.5	954.3	1016.8	1241.1	1478.8
42.5°	1139.1	1118.1	1060.2	1056.3	1051.0	1034.9	988.2	1126.0	1181.5	1414.0	1635.7
45°	1264.1	1232.2	1146.0	1131.2	1129.3	1128.3	1175.0	1329.2	1361.1	1601.5	1796.8
47.5°	1361.1	1335.8	1265.1	1258.5	1266.7	1289.1	1421.9	1544.9	1538.3	1768.5	1932.0
50°	1490.3	1471.3	1392.7	1405.2	1447.6	1484.1	1700.5	1780.0	1684.0	1900.1	2030.3
52.5°	1642.9	1607.7	1534.7	1568.6	1633.7	1694.5	1996.1	1985.9	1786.3	1999.1	2103.6
55°	1775.1	1750.1	1725.1	1760.3	1857.7	1933.6	2263.1	2140.1	1860.6	2078.6	2135.9
57.5°	1998.7	1992.8	1967.2	2003.0	2121.1	2200.0	2502.2	2259.8	1908.3	2120.1	2098.0
60°	2329.6	2320.0	2272.3	2318.0	2471.9	2595.9	2722.5	2367.4	1919.2	2104.0	1989.2
62.5°	2727.5	2694.9	2654.1	2721.5	2932.7	2987.2	2930.0	2431.2	1878.7	1975.7	1726.8
65°	3099.1	3065.5	3066.5	3208.6	3438.4	3475.6	3172.1	2421.6	1760.3	1654.4	1273.6
67.5°	3383.5	3377.9	3418.0	3695.3	3995.8	3970.2	3388.4	2278.9	1409.4	1072.4	676.8
70°	3398.0	3408.8	3523.9	3991.9	4297.0	4256.3	3370.0	1852.4	878.7	493.3	266.7
71°	3223.0	3296.0	3455.2	3982.7	4314.8	4261.9	3214.8	1551.5	644.5	344.0	192.4
72.5°	2746.5	2785.0	3129.0	3748.2	4174.4	4061.3	2821.2	1087.5	412.7	210.5	110.5
75°	1512.7	1607.4	2095.4	2940.5	3338.8	3239.5	1838.6	516.6	205.9	115.1	45.7
77.5°	720.2	701.8	1022.4	1748.8	2263.8	2258.5	926.4	229.5	120.0	77.9	23.0
80°	205.9	231.5	391.3	831.3	1256.9	1270.7	355.8	110.8	83.2	60.8	11.8
82.5°	62.2	63.5	143.7	367.7	625.1	589.3	133.5	56.6	59.9	48.3	6.9
85°	10.9	13.5	42.4	129.6	238.4	180.9	33.5	27.0	39.5	31.9	3.9
87.5°	0.7	1.0	14.1	14.8	21.0	12.2	5.9	3.9	8.6	8.6	2.3
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°	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9	688.9
2.5°	691.2	693.2	691.9	688.9	684.0	678.1	670.2	663.6	658.0	655.1	658.7
5°	695.5	698.1	691.6	676.8	654.4	630.1	602.4	581.1	564.3	559.0	557.1
7.5°	702.1	703.7	686.0	653.1	605.7	548.2	497.9	455.5	422.6	412.7	398.2
10°	710.6	709.7	676.1	614.9	531.7	445.3	367.3	309.4	265.7	249.9	248.6
12.5°	723.8	718.5	663.6	563.0	443.6	330.5	234.1	183.2	155.5	146.3	144.4
15°	740.2	727.7	643.9	502.1	339.7	213.4	144.4	128.9	125.3	124.6	124.0
17.5°	759.6	739.9	617.9	427.5	238.7	138.4	120.7	120.4	120.7	120.0	119.7
20°	785.9	752.7	587.0	339.0	157.8	116.7	115.1	115.1	115.4	115.1	115.1
22.5°	813.9	767.9	548.8	258.8	119.0	110.8	110.5	111.2	111.8	111.5	111.5
25°	848.4	787.6	498.5	177.2	106.5	105.9	106.2	107.5	108.8	109.2	108.8
27.5°	898.4	811.9	444.6	122.0	97.7	98.3	101.6	104.9	106.9	107.2	107.2
30°	954.6	838.9	374.2	99.0	90.4	90.4	94.4	100.6	104.9	105.6	105.9
32.5°	1027.0	870.1	296.3	89.1	83.5	82.9	86.5	94.1	101.9	104.2	104.2
35°	1116.4	907.0	220.3	82.9	78.6	77.0	78.9	85.2	95.4	101.9	102.6
37.5°	1221.3	941.8	161.1	77.3	74.0	71.7	73.0	77.9	86.2	96.0	98.7
40°	1318.3	972.7	120.4	72.7	69.4	67.7	68.7	71.0	77.9	87.1	88.8
42.5°	1424.2	996.7	95.7	67.7	64.8	64.1	64.1	65.1	69.7	75.0	75.3
45°	1529.8	1005.3	80.2	61.8	59.9	60.5	60.2	59.5	61.5	60.8	60.8
47.5°	1605.1	995.1	66.4	56.2	56.2	57.2	55.6	53.3	52.3	48.3	48.7
50°	1656.7	957.9	54.6	49.7	52.3	53.6	50.3	46.7	43.1	38.8	37.8
52.5°	1678.1	891.8	44.7	41.1	46.4	48.0	44.1	39.8	34.2	30.6	29.6
55°	1664.3	810.3	37.2	33.5	39.1	41.1	37.2	32.2	26.0	22.0	21.4
57.5°	1603.5	712.9	31.6	26.6	31.2	32.6	29.9	24.7	18.4	14.5	14.5
60°	1498.2	612.3	25.7	21.0	23.3	25.3	22.7	17.8	12.5	8.9	8.2
62.5°	1284.8	497.2	20.7	16.4	16.4	18.1	15.8	12.8	7.9	4.6	4.3
65°	927.7	341.0	16.4	12.2	11.8	11.8	9.9	8.6	4.6	2.0	1.3
67.5°	504.1	192.4	13.2	9.2	8.2	7.9	6.2	4.9	2.0	0.3	0.0
70°	198.3	74.0	10.2	6.2	5.3	4.9	3.3	2.3	1.3	0.0	0.0
71°	134.5	51.0	8.9	5.3	4.3	3.6	2.6	2.0	1.0	0.0	0.0
72.5°	77.0	31.6	6.9	3.9	3.3	2.6	2.0	1.3	1.0	0.0	0.0
75°	33.5	16.1	4.3	3.0	2.3	1.6	1.3	1.0	0.3	0.0	0.0
77.5°	17.1	8.9	3.0	2.3	1.3	1.0	0.7	0.3	0.0	0.0	0.0
80°	9.5	4.6	2.0	1.3	1.0	0.7	0.3	0.3	0.0	0.0	0.0
82.5°	5.3	2.6	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.7	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)