

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: P455930

Luminaire Tested: **GALN-SA7A-827-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455930  
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-SA7A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16939 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

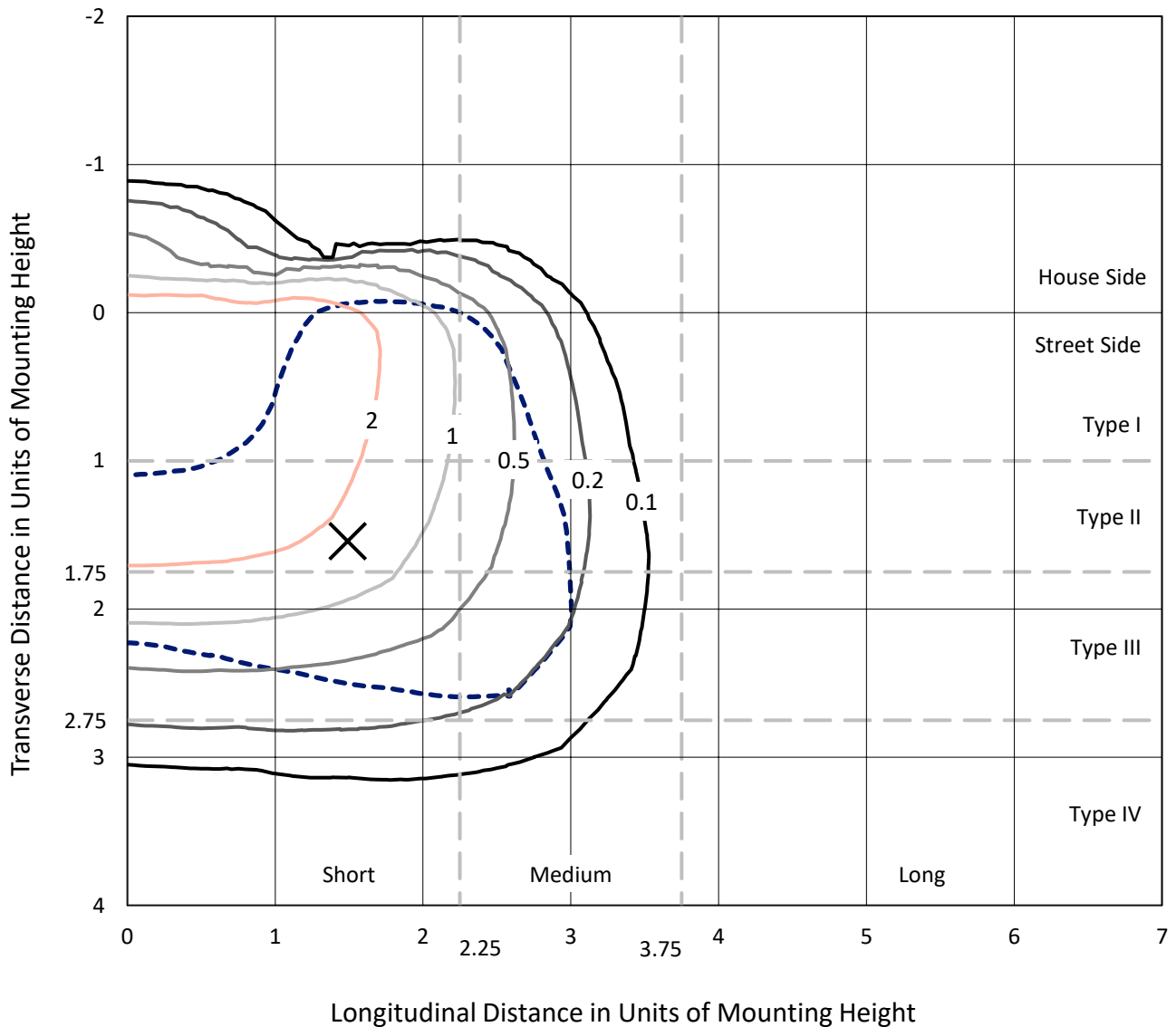
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

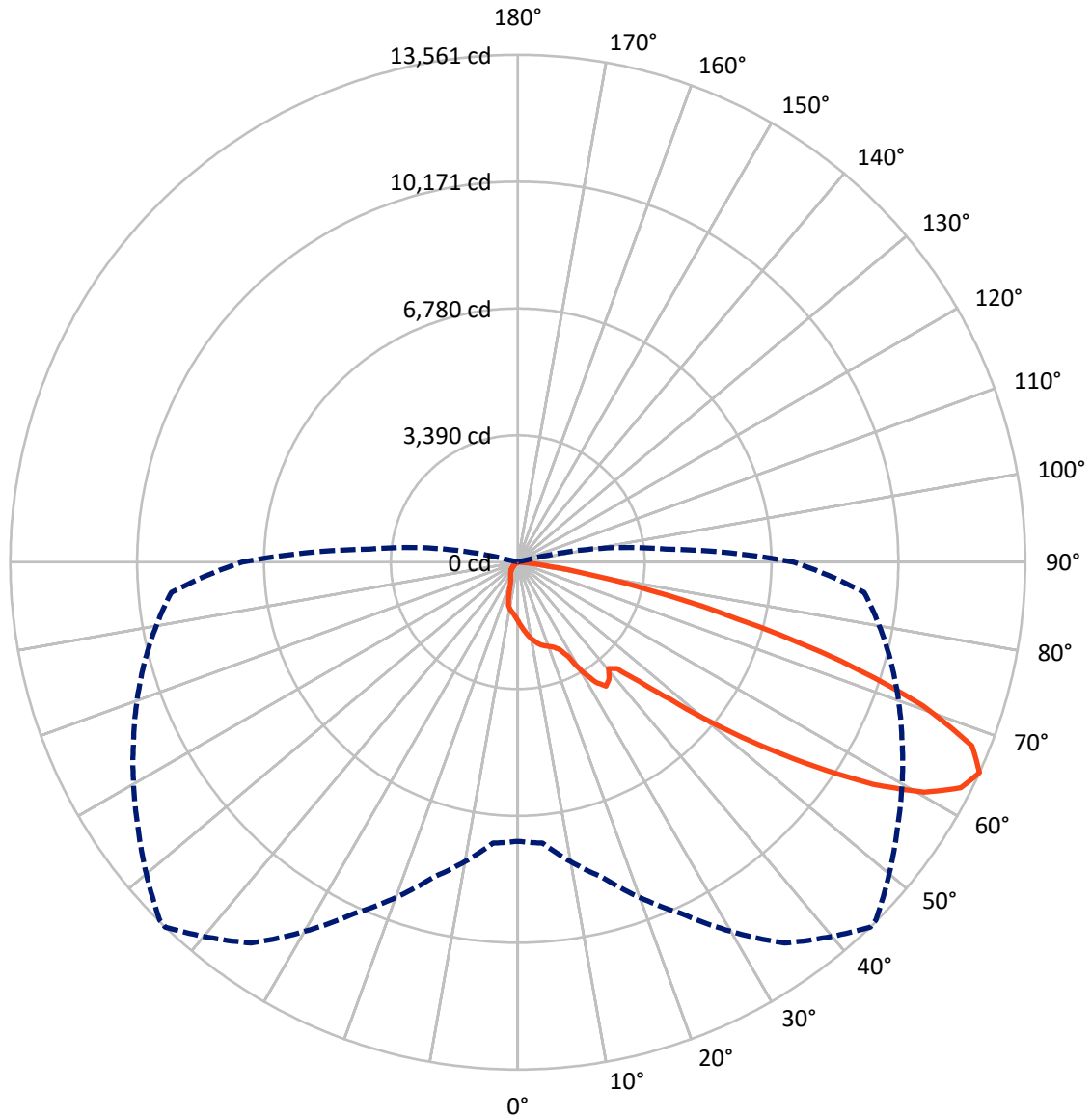
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1560.7	0.0	1560.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	15378.3	0.0	15378.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	16939.0	0.0	16939.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	0.9
10°-20°	471.9	2.8
20°-30°	800.2	4.7
30°-40°	1330.5	7.9
40°-50°	2323.0	13.7
50°-60°	4538.4	26.8
60°-70°	5265.6	31.1
70°-80°	1917.5	11.3
80°-90°	135.1	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°	16939.0	100.0
0°-180°	16939.0	100.0

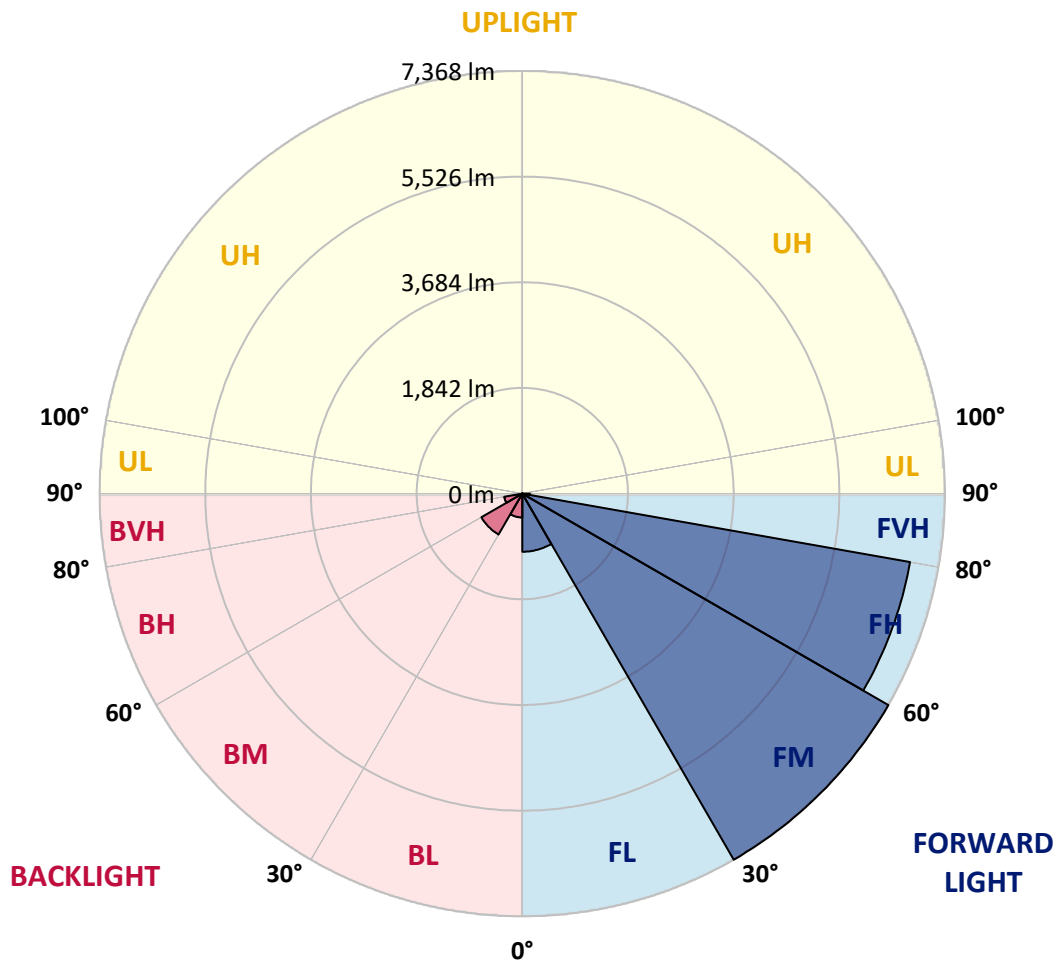


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.1	6.0			
FM (30°-60°)	7368.5	43.5			
FH (60°-80°)	6863.5	40.5			G3/7500
FVH (80°-90°)	133.3	0.8			G2/225
BL (0°-30°)	415.8	2.5	B1/500		
BM (30°-60°)	823.4	4.9	B1/1000		
BH (60°-80°)	319.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1774.6	1766.8	1762.9	1742.2	1726.7	1707.2	1707.2	1682.7	1654.2	1623.1	1594.6
5°	1972.6	1959.6	1942.8	1924.7	1888.5	1836.7	1836.7	1784.9	1725.4	1672.3	1614.1
7.5°	2162.9	2151.2	2122.7	2087.8	2028.2	1973.9	1970.0	1894.9	1823.7	1743.5	1660.6
10°	2329.8	2320.8	2296.2	2228.9	2166.7	2095.5	2094.3	2010.1	1927.3	1828.9	1726.7
12.5°	2446.3	2447.6	2415.3	2350.5	2270.3	2203.0	2197.8	2115.0	2028.2	1922.1	1796.6
15°	2529.2	2529.2	2495.5	2423.0	2350.5	2291.0	2285.8	2213.3	2124.0	2008.8	1872.9
17.5°	2552.5	2560.2	2524.0	2459.3	2401.0	2349.2	2347.9	2287.1	2215.9	2104.6	1950.6
20°	2543.4	2551.2	2522.7	2472.2	2432.1	2402.3	2398.4	2373.8	2307.8	2203.0	2033.4
22.5°	2524.0	2531.7	2511.0	2481.3	2461.8	2470.9	2464.4	2485.1	2450.2	2323.4	2131.8
25°	2527.9	2535.6	2520.1	2503.3	2520.1	2575.8	2592.6	2681.9	2650.8	2476.1	2237.9
27.5°	2649.5	2665.1	2643.1	2650.8	2710.4	2839.8	2872.2	3026.2	2889.0	2670.2	2403.6
30°	2920.0	2909.7	2868.3	2905.8	3112.9	3387.3	3378.2	3353.7	3138.8	2894.2	2600.3
32.5°	3166.0	3156.9	3154.3	3316.1	3691.5	3824.8	3818.3	3580.2	3362.7	3150.4	2794.5
35°	3265.6	3230.7	3222.9	3615.1	4242.9	4066.8	4026.7	3673.4	3634.5	3430.0	2992.5
37.5°	3565.9	3541.3	3421.0	3664.3	4022.8	3964.6	3933.5	3833.9	3924.5	3677.2	3216.5
40°	4184.6	4116.0	4007.3	3769.1	3710.9	3735.5	3766.6	4039.7	4267.5	4015.1	3515.4
42.5°	4953.5	4937.9	4736.0	4292.1	3855.9	3889.5	3929.6	4469.4	4760.6	4523.7	4003.4
45°	5876.3	5898.3	5607.1	5082.9	4510.8	4539.3	4597.5	5103.6	5428.5	5314.6	4771.0
47.5°	6715.1	6698.3	6599.9	6055.0	5526.9	5463.4	5557.9	5917.8	6352.7	6370.8	5723.6
50°	7559.0	7648.3	7502.0	7288.5	6896.3	6763.0	6728.0	6904.1	7566.8	7480.0	6867.8
52.5°	8771.8	8818.4	8544.0	8489.6	8578.9	8146.6	8111.7	8154.4	8747.2	8449.5	7724.7
55°	9534.2	9507.0	9404.7	9829.3	10182.6	9642.9	9598.9	9426.7	9727.0	9134.2	8549.2
57.5°	9774.9	9813.7	10051.9	10819.5	11655.6	11197.4	11117.2	10627.9	10433.7	9772.3	9307.7
60°	9667.5	9738.7	10252.5	11394.1	12553.9	12485.3	12416.7	11594.8	10941.1	10305.6	9839.6
62.5°	8902.5	9002.2	9824.1	11291.9	12858.1	13286.5	13201.1	12197.9	11278.9	10564.5	9932.8
65°	7460.6	7534.4	8714.8	10363.8	12425.7	13560.9	13529.8	12386.9	11332.0	10327.6	9294.7
67.5°	5318.5	5569.6	6663.3	8734.3	11146.9	13092.3	13145.4	12160.4	10833.7	9303.8	7697.5
70°	3343.3	3514.2	4298.5	6253.0	8936.2	11486.0	11660.8	11123.6	9402.1	7252.2	5152.8
72.5°	1594.6	1721.5	2280.6	3958.1	6307.4	9037.1	9175.6	9131.6	7270.4	4569.0	2658.6
75°	710.6	758.5	1088.5	2020.5	4072.0	6074.4	6432.9	6492.4	4543.2	2235.3	1034.2
77.5°	362.4	363.7	510.0	978.5	2033.4	3624.2	3695.4	3903.8	2463.1	985.0	359.8
80°	192.9	205.8	270.5	462.1	1054.9	1784.9	1775.8	1951.9	1092.4	482.8	120.4
82.5°	86.7	95.8	152.7	242.0	515.2	676.9	730.0	798.6	468.6	308.1	53.1
85°	25.9	31.1	75.1	121.7	186.4	195.4	218.7	282.2	265.3	218.7	27.2
87.5°	3.9	3.9	31.1	33.7	27.2	34.9	36.2	40.1	85.4	80.2	14.2
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°	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5	1576.5
2.5°	1579.1	1570.0	1537.7	1510.5	1487.2	1473.0	1456.1	1445.8	1440.6	1436.7	1438.0
5°	1585.6	1563.6	1507.9	1463.9	1430.3	1394.0	1369.4	1355.2	1348.7	1338.4	1338.4
7.5°	1621.8	1586.9	1509.2	1441.9	1383.7	1334.5	1287.9	1271.0	1259.4	1256.8	1254.2
10°	1673.6	1629.6	1523.4	1430.3	1347.4	1280.1	1214.1	1155.9	1110.6	1083.4	1079.5
12.5°	1738.3	1674.9	1545.5	1422.5	1316.4	1197.3	1022.5	904.7	825.8	801.2	805.1
15°	1797.8	1729.2	1567.5	1416.0	1259.4	992.8	794.7	660.1	620.0	616.1	617.4
17.5°	1869.0	1787.5	1593.3	1407.0	1102.8	758.5	590.2	554.0	561.7	574.7	573.4
20°	1942.8	1849.6	1624.4	1352.6	880.2	570.8	521.6	525.5	537.2	548.8	551.4
22.5°	2021.8	1920.8	1660.6	1221.9	671.8	497.0	494.4	499.6	511.3	524.2	526.8
25°	2130.5	2010.1	1687.8	1051.0	508.7	459.5	464.7	473.7	484.1	498.3	500.9
27.5°	2270.3	2130.5	1702.1	828.4	440.1	425.8	427.1	440.1	453.0	466.0	466.0
30°	2451.5	2274.2	1673.6	626.5	406.4	393.5	388.3	396.1	412.9	425.8	427.1
32.5°	2613.3	2410.1	1598.5	478.9	381.8	363.7	350.8	352.1	358.5	366.3	367.6
35°	2775.1	2542.1	1470.4	402.5	355.9	335.2	315.8	305.5	300.3	296.4	300.3
37.5°	2982.2	2706.5	1299.5	366.3	333.9	308.1	280.9	258.9	240.7	229.1	231.7
40°	3248.8	2934.3	1097.6	343.0	313.2	282.2	245.9	217.5	186.4	176.0	170.9
42.5°	3688.9	3279.9	885.3	323.6	292.5	255.0	209.7	170.9	142.4	132.0	134.6
45°	4384.0	3716.1	682.1	302.9	271.8	225.2	176.0	134.6	111.3	106.1	108.7
47.5°	5305.5	4280.4	525.5	279.6	245.9	192.9	138.5	106.1	91.9	90.6	89.3
50°	6172.7	4805.9	438.8	253.7	214.9	160.5	113.9	89.3	80.2	79.0	79.0
52.5°	6957.1	5182.6	357.2	223.9	181.2	132.0	95.8	79.0	71.2	67.3	67.3
55°	7654.8	5428.5	289.9	187.7	142.4	104.8	82.8	71.2	62.1	57.0	55.7
57.5°	8181.6	5458.3	217.5	150.1	106.1	81.5	71.2	62.1	51.8	45.3	42.7
60°	8406.8	5200.7	160.5	113.9	79.0	64.7	57.0	50.5	38.8	32.4	31.1
62.5°	8180.3	4699.8	119.1	86.7	60.8	47.9	40.1	37.5	27.2	19.4	18.1
65°	7368.7	3976.2	94.5	66.0	45.3	34.9	25.9	24.6	16.8	9.1	7.8
67.5°	5903.5	3114.2	75.1	49.2	32.4	23.3	16.8	15.5	9.1	2.6	2.6
70°	3839.0	1990.7	60.8	36.2	20.7	15.5	10.4	7.8	5.2	1.3	0.0
72.5°	1898.8	930.6	49.2	28.5	14.2	7.8	3.9	2.6	3.9	0.0	0.0
75°	736.5	331.4	36.2	19.4	7.8	3.9	2.6	0.0	1.3	0.0	0.0
77.5°	244.6	110.0	22.0	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
80°	90.6	42.7	11.6	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	36.2	16.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	10.4	5.2	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	7.8	5.2	3.9	2.6	1.3	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)