

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: P533597

Luminaire Tested: **GALN-SA9A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25542 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

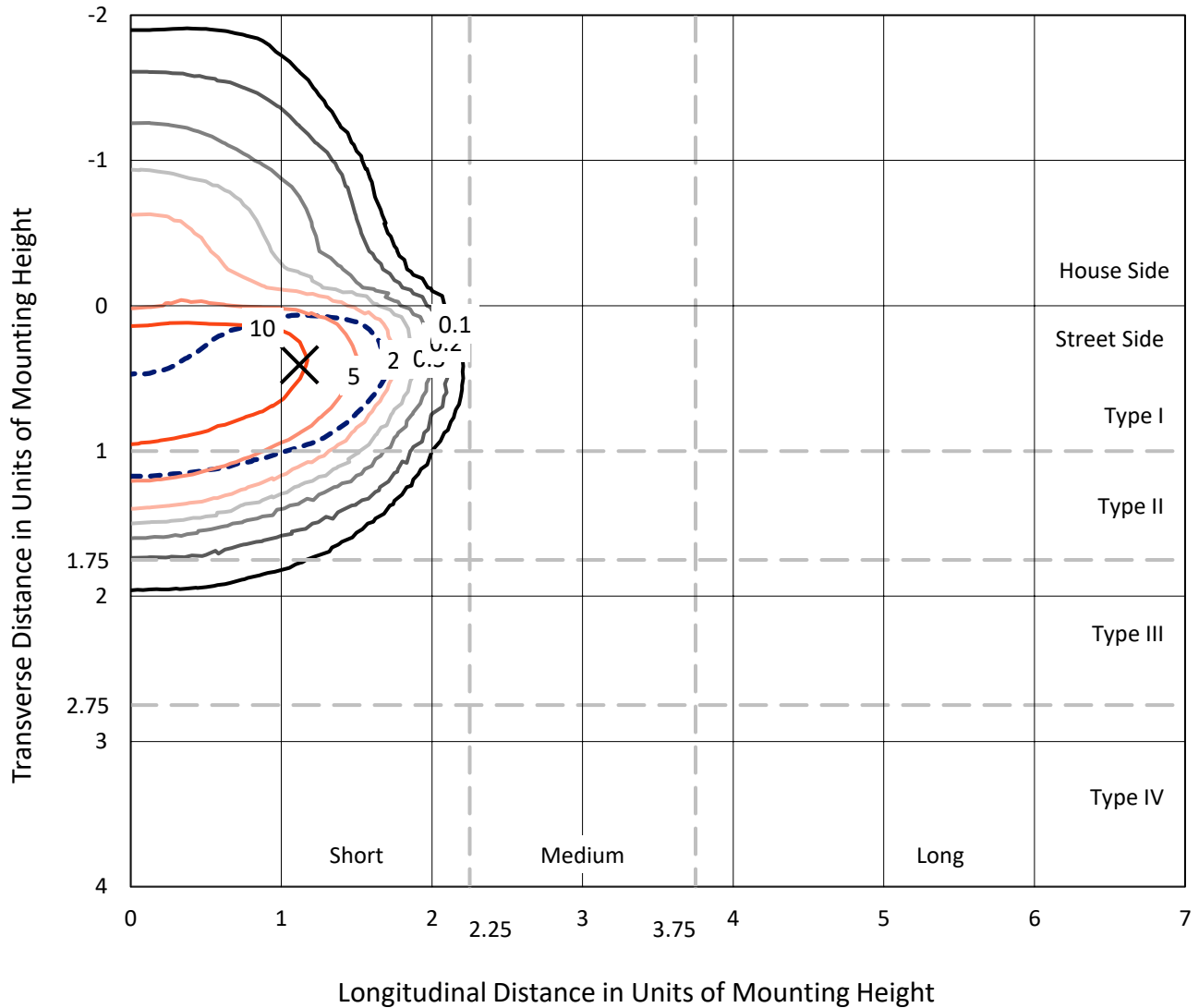
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

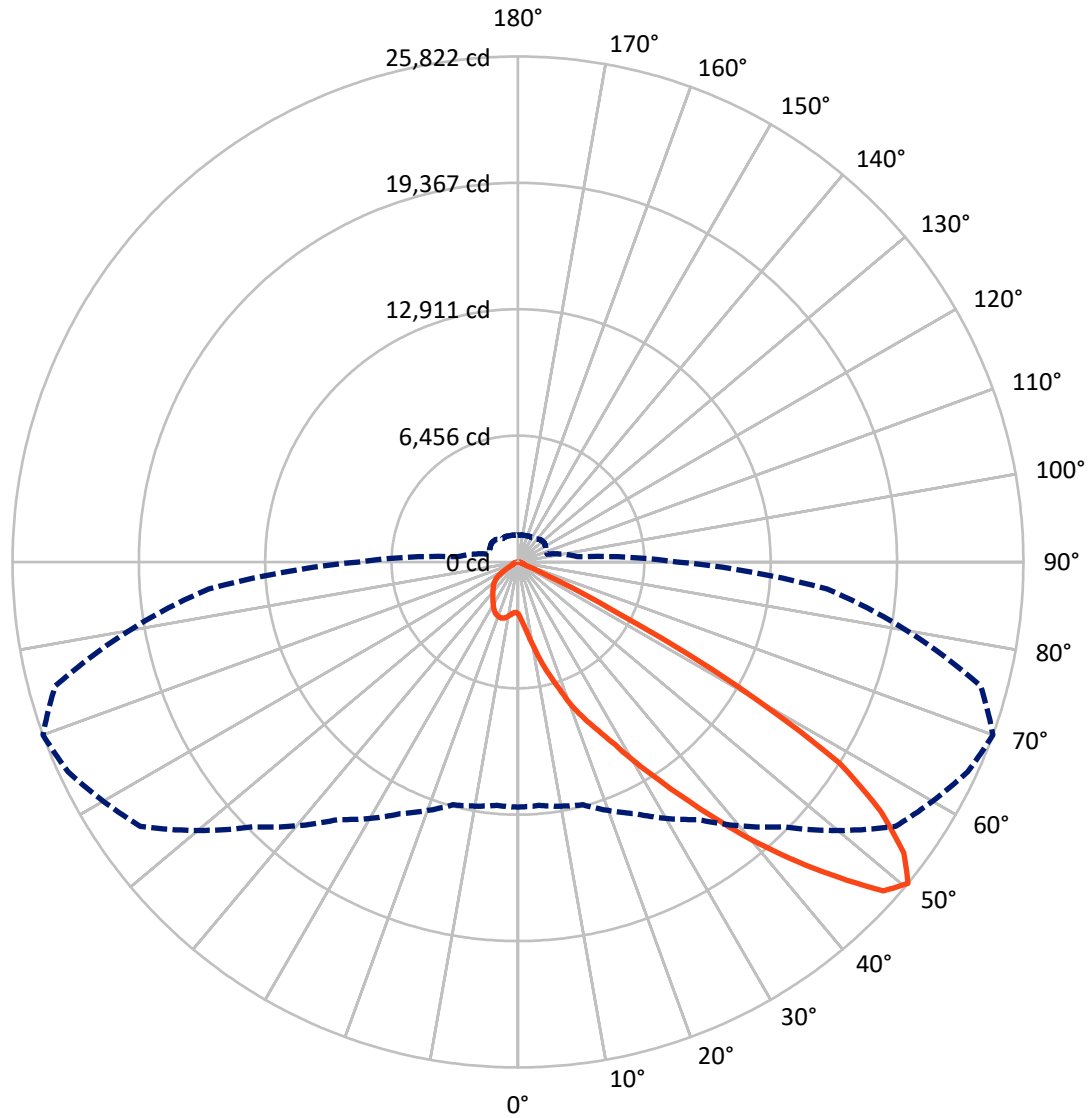
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3567.1	0.0	3567.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	21974.9	0.0	21974.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	25542.0	0.0	25542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.0	1.3
10°-20°	1488.2	5.8
20°-30°	3121.9	12.2
30°-40°	5381.1	21.1
40°-50°	7864.4	30.8
50°-60°	6125.1	24.0
60°-70°	1037.8	4.1
70°-80°	142.6	0.6
80°-90°	36.9	0.1
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°	25542.0	100.0
0°-180°	25542.0	100.0

**Coefficient of Utilization**



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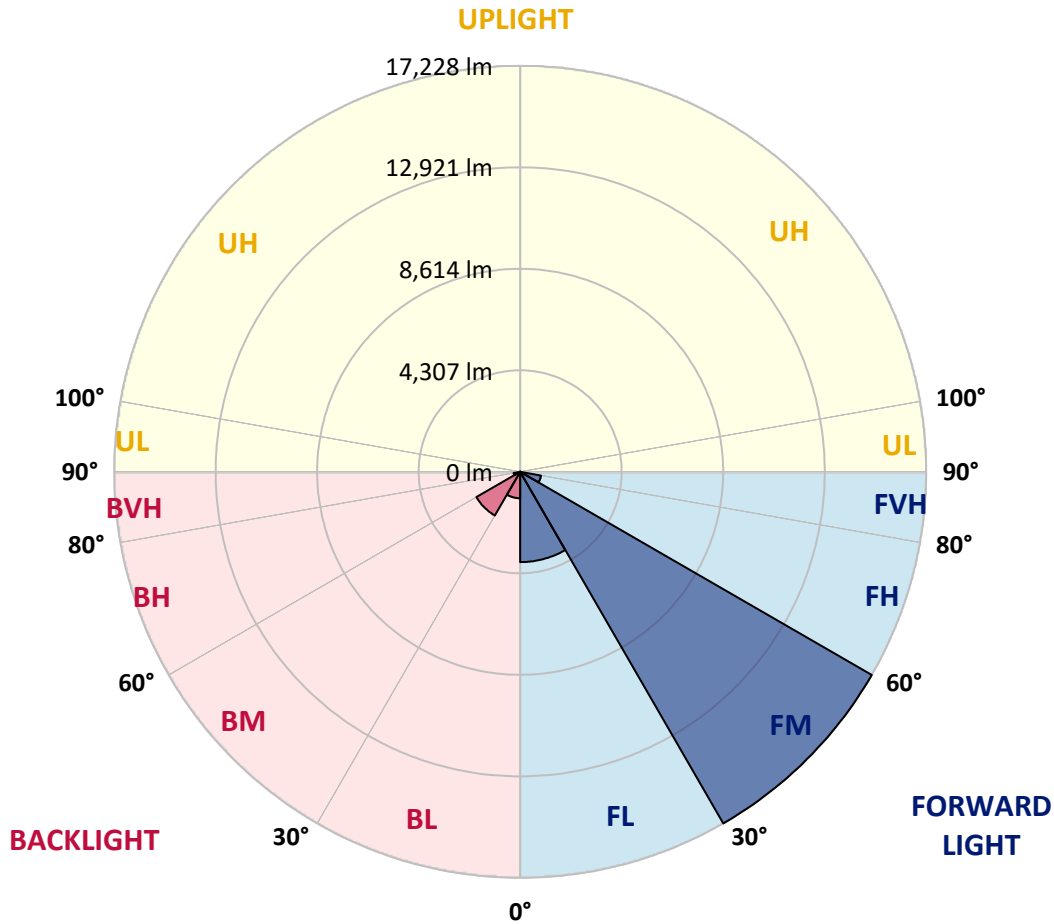
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3831.6	15.0			
FM (30°-60°)	17227.6	67.4			
FH (60°-80°)	898.6	3.5			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1122.5	4.4	B3/2500		
BM (30°-60°)	2143.0	8.4	B2/2500		
BH (60°-80°)	281.8	1.1	B1/500		G1/500
BVH (80°-90°)	19.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6
2.5°	3464.5	3439.3	3384.7	3284.0	3242.0	3141.2	3082.4	2969.0	2897.6	2817.8	2729.6
5°	4879.8	4749.6	4669.8	4556.4	4224.6	4018.9	3678.7	3388.9	3254.6	3107.6	2906.0
7.5°	6341.2	6257.2	6148.0	5904.4	5677.6	5249.3	4665.6	4027.3	3754.3	3502.3	3103.4
10°	7550.6	7315.4	7302.8	7122.3	6874.5	6362.2	5660.8	4867.2	4380.0	4010.5	3384.7
12.5°	8394.7	8180.5	8277.1	8256.1	8025.1	7554.8	6744.3	5694.4	5186.3	4611.0	3674.5
15°	9163.2	9075.0	9045.6	9020.4	8928.0	8579.5	7853.0	6702.3	5967.4	5274.5	4002.1
17.5°	9914.9	9688.1	9797.3	9818.3	9809.9	9494.9	8814.6	7659.8	6794.7	5975.8	4346.4
20°	10582.6	10603.6	10456.6	10427.2	10402.0	10389.4	9725.9	8608.9	7811.0	6710.7	4795.8
22.5°	11439.3	11292.3	11422.5	11338.5	11174.7	11073.9	10565.8	9448.7	8692.8	7596.8	5253.5
25°	12451.3	12568.9	12262.4	12228.8	12048.2	11699.6	11241.9	10389.4	9541.1	8419.9	5749.0
27.5°	13698.6	13492.8	13413.0	13228.2	12900.7	12753.7	12216.2	11359.5	10565.8	9285.0	6227.8
30°	14769.4	14714.8	14315.9	14097.5	13812.0	13807.8	13056.1	12673.9	11901.2	10641.4	6887.1
32.5°	15642.9	15403.6	15256.6	15105.4	14874.4	14937.4	14303.3	14101.7	13324.8	11901.2	7664.0
35°	16226.6	16054.5	15966.3	15735.3	15668.1	15949.5	15684.9	15600.9	14962.6	13673.4	8575.3
37.5°	16411.4	16466.0	16449.2	16159.5	16302.2	17062.3	17402.5	17184.1	16848.2	15542.1	9562.1
40°	16575.2	16613.0	16529.0	16869.2	17276.5	18141.6	19372.0	19010.9	18884.9	17436.1	10935.3
42.5°	16667.6	16638.2	16638.2	17226.1	17843.4	19582.0	21274.4	21035.0	20938.4	19451.8	12522.7
45°	16268.6	15983.1	16289.6	17087.5	18330.6	20291.7	22794.6	23126.3	22987.7	21849.7	14378.9
47.5°	14777.8	14954.2	15126.4	16193.0	17738.4	20073.3	23726.8	24856.5	25112.7	23865.4	15596.7
50°	12522.7	12484.9	12841.9	14185.7	16062.9	19132.7	23546.3	25356.2	25822.4	24470.1	15852.9
52.5°	9108.6	9385.8	9772.1	11107.5	13333.2	16697.0	21215.6	24067.0	24688.5	23726.8	15684.9
55°	5303.9	4997.3	5866.6	6996.3	9096.0	12594.1	17935.8	21333.2	22483.8	22374.6	14836.6
57.5°	2124.9	2057.7	2355.9	3174.8	4745.4	7806.8	13043.5	17528.5	19372.0	20493.3	13039.3
60°	932.3	911.3	1070.9	1293.4	1940.1	3598.9	7134.9	10901.8	12825.1	14320.1	8974.2
62.5°	671.9	663.5	743.3	823.1	1024.7	1566.4	2998.4	4392.6	5476.1	6614.1	4018.9
65°	541.7	562.7	617.3	659.3	755.9	869.3	1058.3	1222.0	1499.2	1553.8	886.1
67.5°	440.9	457.7	508.1	554.3	571.1	470.3	487.1	428.3	428.3	382.1	306.6
70°	323.4	327.6	386.3	440.9	352.8	189.0	331.8	331.8	298.2	285.6	260.4
72.5°	239.4	243.6	289.8	273.0	138.6	117.6	243.6	268.8	243.6	231.0	210.0
75°	176.4	180.6	151.2	63.0	58.8	75.6	142.8	184.8	176.4	172.2	159.6
77.5°	33.6	25.2	21.0	29.4	42.0	63.0	92.4	113.4	117.6	126.0	117.6
80°	4.2	4.2	12.6	25.2	46.2	67.2	96.6	109.2	113.4	117.6	109.2
82.5°	0.0	4.2	12.6	25.2	46.2	63.0	84.0	96.6	105.0	109.2	105.0
85°	0.0	4.2	8.4	21.0	37.8	46.2	42.0	29.4	25.2	29.4	21.0
87.5°	0.0	0.0	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4
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°	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6	2645.6
2.5°	2679.2	2662.4	2603.7	2540.7	2486.1	2511.3	2486.1	2465.1	2473.5	2465.1	2456.7
5°	2826.2	2750.6	2624.7	2570.1	2523.9	2519.7	2507.1	2502.9	2507.1	2507.1	2469.3
7.5°	2964.8	2843.0	2708.6	2649.8	2595.3	2599.5	2570.1	2570.1	2565.9	2544.9	2536.5
10°	3174.8	3011.0	2838.8	2733.8	2666.6	2654.0	2624.7	2595.3	2595.3	2595.3	2553.3
12.5°	3405.7	3200.0	2964.8	2843.0	2763.2	2700.2	2654.0	2645.6	2599.5	2591.1	2570.1
15°	3607.3	3347.0	3048.8	2880.8	2780.0	2696.0	2624.7	2578.5	2557.5	2544.9	2528.1
17.5°	3804.7	3472.9	3095.0	2880.8	2771.6	2675.0	2599.5	2557.5	2507.1	2515.5	2481.9
20°	4069.3	3607.3	3107.6	2826.2	2691.8	2599.5	2498.7	2477.7	2448.3	2423.1	2431.5
22.5°	4325.4	3703.9	3069.8	2759.0	2565.9	2456.7	2406.3	2381.1	2368.5	2347.5	2318.1
25°	4556.4	3808.9	3011.0	2637.2	2431.5	2351.7	2305.5	2301.3	2271.9	2271.9	2217.3
27.5°	4791.6	3846.7	2910.2	2494.5	2313.9	2267.7	2246.7	2238.3	2225.7	2196.3	2158.5
30°	5060.3	3859.3	2763.2	2347.5	2208.9	2158.5	2187.9	2208.9	2154.3	2099.7	2116.5
32.5°	5282.9	3829.9	2586.9	2208.9	2133.3	2108.1	2166.9	2187.9	2124.9	2066.1	2036.7
35°	5551.7	3758.5	2414.7	2099.7	2057.7	2108.1	2158.5	2158.5	2032.5	1961.1	1944.3
37.5°	5959.0	3678.7	2255.1	2007.3	1977.9	2082.9	2150.1	2103.9	1906.5	1818.4	1797.4
40°	6395.7	3628.3	2099.7	1914.9	1935.9	2040.9	2078.7	1935.9	1734.4	1679.8	1663.0
42.5°	7029.9	3527.5	1961.1	1835.2	1898.1	1982.1	1982.1	1726.0	1650.4	1621.0	1616.8
45°	7819.4	3456.1	1839.4	1768.0	1843.6	1864.6	1797.4	1616.8	1562.2	1553.8	1558.0
47.5°	8205.7	3317.6	1713.4	1688.2	1742.8	1747.0	1570.6	1528.6	1482.4	1469.8	1461.4
50°	8146.9	3069.8	1549.6	1583.2	1658.8	1616.8	1432.0	1440.4	1398.4	1394.2	1373.2
52.5°	7735.4	2679.2	1385.8	1465.6	1549.6	1427.8	1318.6	1310.2	1310.2	1255.6	1234.6
55°	6857.7	2158.5	1188.4	1289.2	1390.0	1201.0	1171.6	1163.2	1142.2	1091.9	1079.3
57.5°	5429.9	1583.2	894.5	1003.7	1180.0	1020.5	1016.3	978.5	923.9	886.1	886.1
60°	3229.4	911.3	562.7	613.1	781.1	827.3	919.7	902.9	810.5	751.7	734.9
62.5°	1474.0	470.3	357.0	365.4	419.9	537.5	722.3	835.7	705.5	604.7	596.3
65°	495.5	348.6	294.0	281.4	289.8	323.4	432.5	592.1	562.7	466.1	449.3
67.5°	302.4	310.8	277.2	256.2	256.2	252.0	247.8	268.8	331.8	323.4	327.6
70°	260.4	285.6	256.2	231.0	222.6	210.0	176.4	147.0	126.0	147.0	155.4
72.5°	210.0	226.8	218.4	197.4	176.4	159.6	126.0	96.6	71.4	63.0	63.0
75°	155.4	168.0	176.4	151.2	134.4	113.4	92.4	63.0	37.8	25.2	25.2
77.5°	113.4	126.0	130.2	117.6	100.8	79.8	58.8	42.0	21.0	8.4	8.4
80°	96.6	113.4	126.0	117.6	105.0	75.6	54.6	29.4	16.8	4.2	4.2
82.5°	92.4	113.4	126.0	113.4	100.8	71.4	54.6	33.6	12.6	4.2	4.2
85°	21.0	29.4	37.8	46.2	54.6	54.6	42.0	25.2	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	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)