

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: P531010

Luminaire Tested: **GALN-SA6B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28363 lumens  
Efficiency: N/A  
Efficacy: 116.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

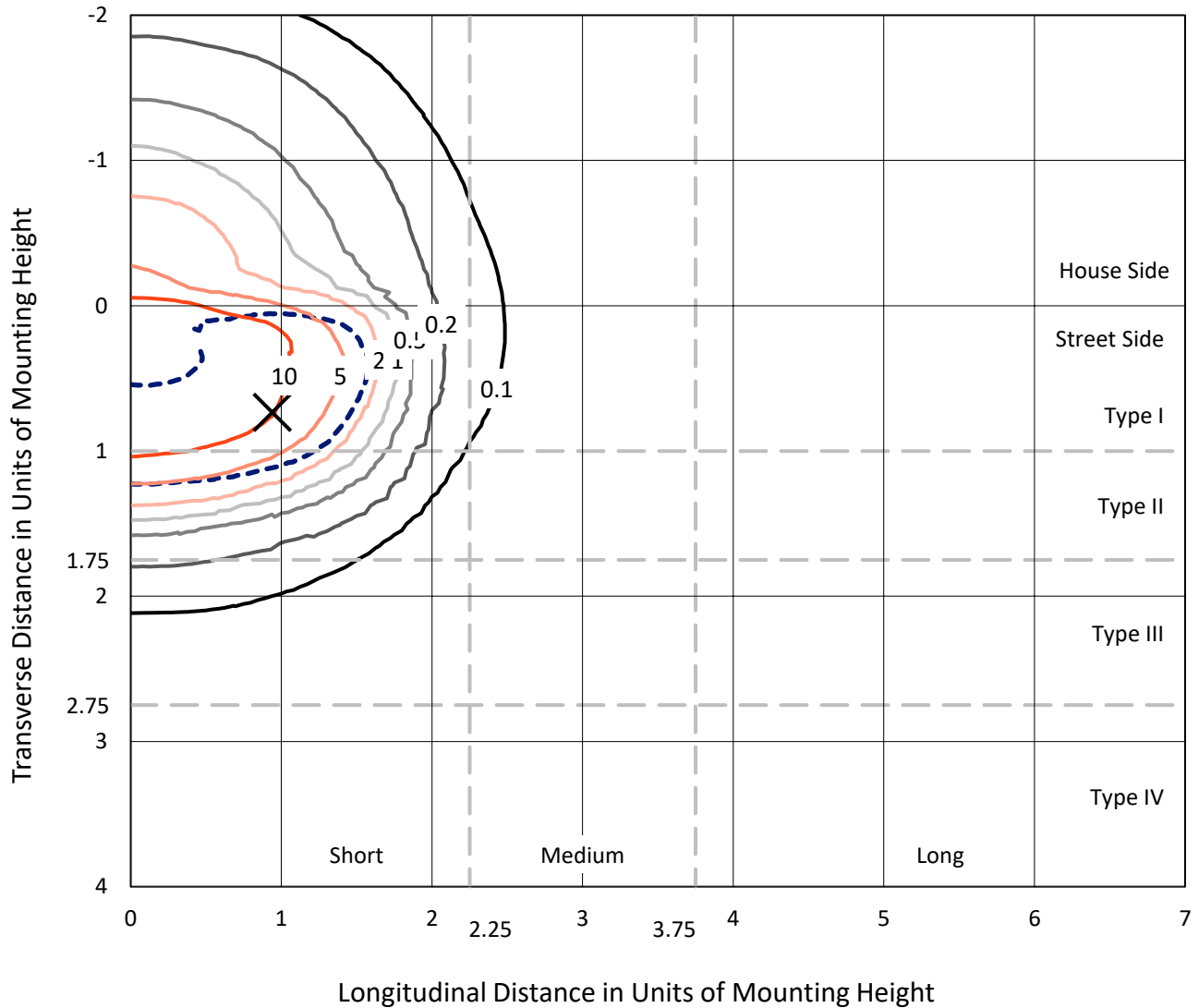
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

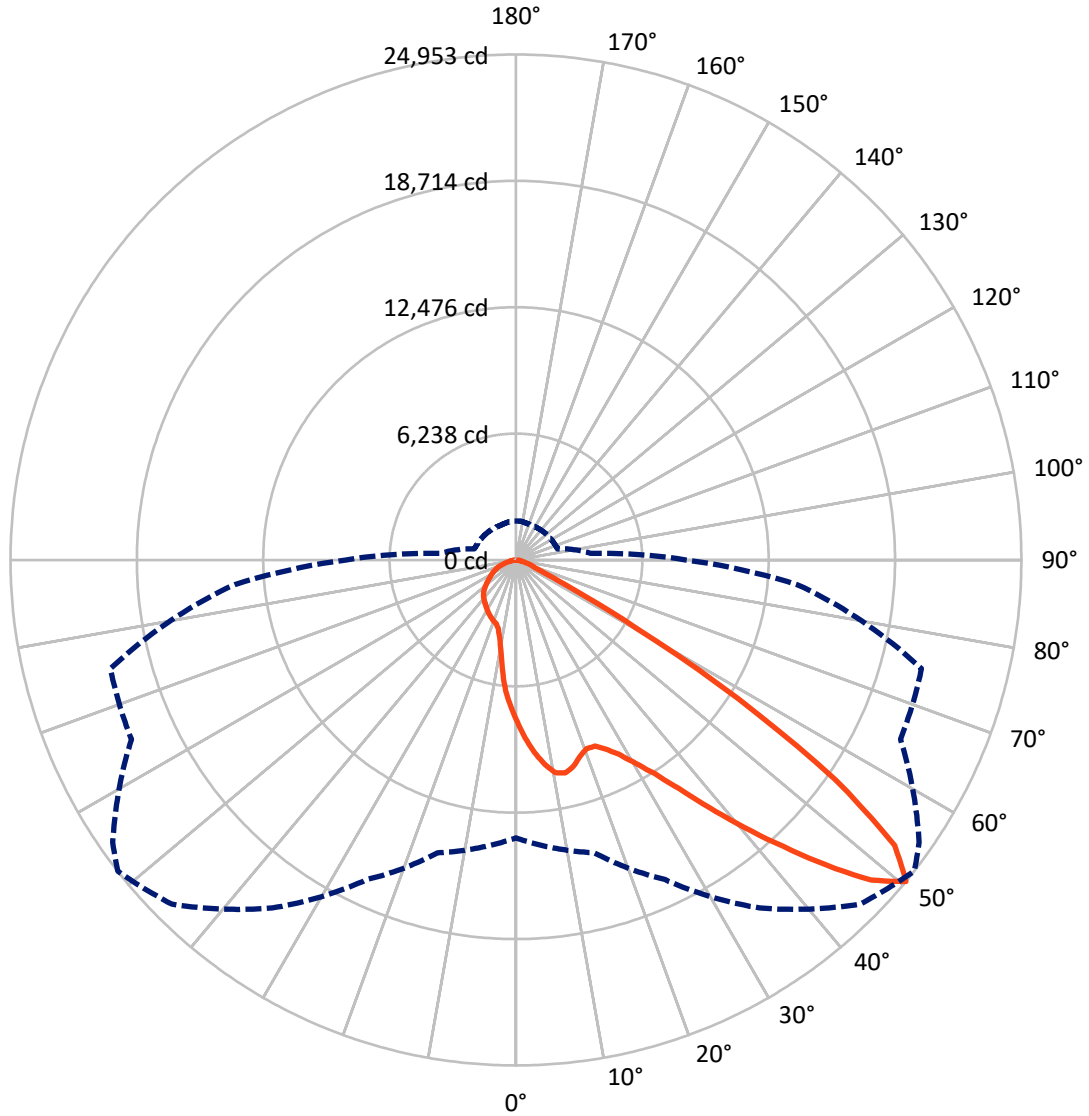
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5331.6	0.0	5331.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	23031.4	0.0	23031.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	28363.0	0.0	28363.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.9	2.6
10°-20°	1975.1	7.0
20°-30°	3326.9	11.7
30°-40°	5582.9	19.7
40°-50°	8540.5	30.1
50°-60°	6226.7	22.0
60°-70°	1385.7	4.9
70°-80°	499.8	1.8
80°-90°	88.5	0.3
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°	28363.0	100.0
0°-180°	28363.0	100.0

**Coefficient of Utilization**



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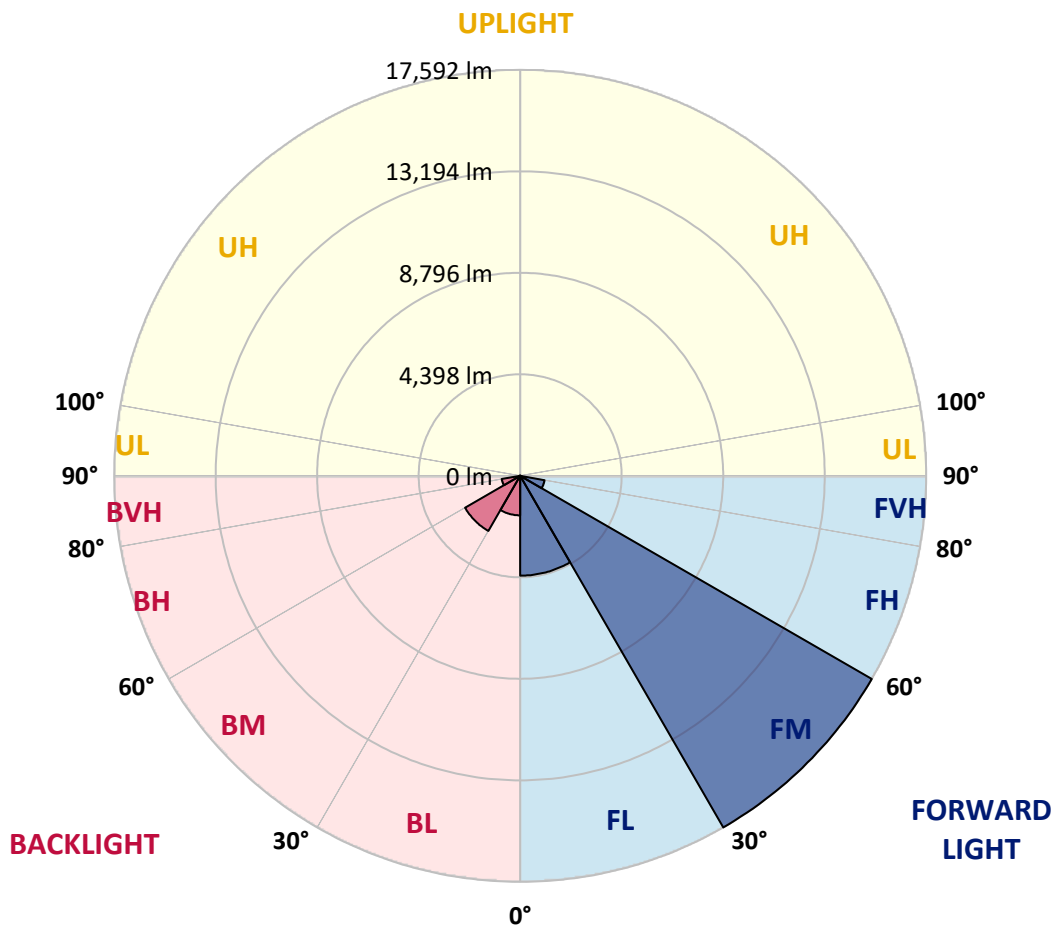
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4326.3	15.3			
FM (30°-60°)	17592.2	62.0			
FH (60°-80°)	1073.3	3.8			G1/1800
FVH (80°-90°)	39.7	0.1			G1/100
BL (0°-30°)	1712.6	6.0	B3/2500		
BM (30°-60°)	2757.9	9.7	B3/5000		
BH (60°-80°)	812.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	48.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1
2.5°	9413.6	9232.4	9252.9	9123.0	8982.9	8941.9	8798.3	8661.6	8559.1	8340.3	8138.6
5°	10288.6	10233.9	10151.9	10049.4	9943.4	9683.6	9536.6	9365.7	8989.7	8651.3	8316.4
7.5°	10415.1	10404.9	10449.3	10449.3	10486.9	10387.8	10179.3	10059.6	9659.7	9109.4	8487.3
10°	9526.4	9557.2	9772.5	10052.8	10442.5	10712.5	10678.3	10647.5	10210.0	9458.0	8688.9
12.5°	8818.8	8750.5	8876.9	9116.2	9700.7	10353.6	10794.5	10797.9	10685.1	10015.2	8835.9
15°	8418.9	8466.8	8500.9	8613.7	9054.7	9810.1	10586.0	10815.0	11310.7	10408.3	9068.4
17.5°	8675.3	8514.6	8507.8	8535.1	8760.7	9328.1	10199.8	10592.9	11652.5	10914.2	9355.5
20°	9010.3	9006.8	8911.1	8876.9	8873.5	9379.4	9946.8	10480.1	11833.6	11570.4	9646.0
22.5°	9598.2	9598.2	9440.9	9365.7	9205.1	9618.7	9981.0	10343.3	12134.4	12021.6	9786.2
25°	10582.6	10421.9	10151.9	9967.3	9875.0	10022.0	10343.3	10668.1	12397.6	12500.2	10076.7
27.5°	11491.8	11238.9	11105.6	10787.7	10664.6	10579.2	10873.1	11201.3	12705.3	13245.3	10233.9
30°	12524.1	12479.7	12240.4	11830.2	11526.0	11368.8	11638.8	11963.5	13269.3	14007.6	10596.3
32.5°	14369.9	13966.6	13641.8	13139.4	12643.7	12308.8	12575.4	12790.7	14205.8	14804.0	10992.8
35°	16362.7	16232.8	15672.2	14766.4	14007.6	13706.8	13864.0	14024.7	15296.2	16020.9	11659.3
37.5°	18321.3	18143.6	17682.1	16919.9	15997.0	15385.1	15497.9	15685.9	16519.9	17661.6	12472.8
40°	19729.6	19510.8	19278.4	19165.6	18249.5	17412.1	17347.1	17395.0	18174.3	19199.8	13375.2
42.5°	19832.1	20102.2	20173.9	20628.6	20413.2	19726.2	19326.2	19336.5	19753.5	20720.8	14287.9
45°	19616.8	19367.3	19897.1	21137.9	21848.8	22170.1	21496.8	21411.3	20731.1	21602.7	14742.5
47.5°	17357.4	17425.7	18321.3	20283.3	22337.6	23773.3	23616.0	23332.3	21254.1	21572.0	14670.7
50°	13720.5	14134.1	14964.7	17408.7	20970.4	24026.2	24952.5	24296.2	20943.0	20724.3	13939.2
52.5°	9136.7	9307.6	9854.5	13009.5	16861.7	21476.3	23414.3	23564.7	20655.9	19613.4	13012.9
55°	4067.6	4053.9	4823.0	6795.3	10579.2	16342.2	19131.4	20047.5	19551.8	18482.0	12110.5
57.5°	1722.7	1780.9	2095.3	2936.2	5202.4	9861.4	12961.6	13764.9	15036.5	15176.6	9290.5
60°	1165.6	1172.4	1257.9	1469.8	2177.4	4631.6	6798.7	7762.6	8671.9	8610.3	4929.0
62.5°	916.1	940.0	1004.9	1090.4	1292.1	2102.2	3042.2	3578.8	3636.9	3059.2	1869.7
65°	782.8	786.2	851.1	922.9	1011.8	1223.7	1466.4	1493.7	1510.8	1456.1	1374.1
67.5°	646.0	652.9	704.1	786.2	868.2	936.6	1004.9	1039.1	1117.7	1271.6	1251.0
70°	512.7	523.0	567.4	635.8	711.0	752.0	837.4	868.2	940.0	1059.6	1107.5
72.5°	389.7	393.1	430.7	478.5	546.9	587.9	659.7	693.9	741.7	844.3	888.7
75°	280.3	290.5	317.9	341.8	352.1	379.4	447.8	485.4	553.7	598.2	601.6
77.5°	147.0	153.8	160.7	160.7	194.8	246.1	290.5	311.1	358.9	393.1	376.0
80°	58.1	61.5	78.6	106.0	136.7	177.7	208.5	218.8	259.8	280.3	290.5
82.5°	34.2	37.6	51.3	75.2	99.1	126.5	150.4	160.7	188.0	211.9	218.8
85°	17.1	20.5	30.8	47.9	64.9	78.6	75.2	71.8	71.8	68.4	71.8
87.5°	6.8	6.8	10.3	10.3	10.3	13.7	17.1	17.1	17.1	20.5	20.5
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°	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1	7995.1
2.5°	8005.3	7868.6	7742.1	7509.7	7256.7	7185.0	6891.0	6785.0	6709.8	6621.0	6593.6
5°	8046.3	7865.2	7458.4	6990.1	6617.5	6139.0	5824.5	5486.1	5240.0	5178.5	5161.4
7.5°	8131.8	7820.7	7120.0	6412.5	5650.2	5000.8	4505.1	4238.5	4002.7	3989.0	3965.1
10°	8227.5	7687.4	6750.9	5640.0	4665.8	4064.2	3766.8	3650.6	3592.5	3578.8	3572.0
12.5°	8306.1	7660.1	6337.3	4888.0	3968.5	3606.2	3517.3	3507.0	3531.0	3537.8	3551.5
15°	8340.3	7550.7	5838.2	4214.6	3534.4	3401.1	3438.7	3479.7	3496.8	3541.2	3507.0
17.5°	8405.2	7410.6	5222.9	3681.4	3291.7	3315.6	3380.6	3428.4	3455.8	3486.5	3442.1
20°	8439.4	7284.1	4645.3	3363.5	3206.2	3250.7	3339.5	3377.1	3411.3	3425.0	3373.7
22.5°	8408.7	7024.3	4136.0	3107.1	3124.2	3182.3	3260.9	3301.9	3281.4	3226.7	3196.0
25°	8326.6	6658.6	3606.2	2943.0	3008.0	3110.5	3172.0	3141.3	3103.7	3072.9	3062.7
27.5°	8323.2	6210.8	3223.3	2792.6	2908.8	3049.0	3028.5	3001.1	3018.2	2994.3	2967.0
30°	8340.3	5776.7	2908.8	2707.2	2837.1	2905.4	2929.4	2902.0	2922.5	2878.1	2891.8
32.5°	8251.4	5352.8	2703.8	2608.1	2751.6	2748.2	2826.8	2847.3	2799.5	2707.2	2720.8
35°	8289.0	5011.0	2529.4	2563.6	2655.9	2655.9	2717.4	2693.5	2567.0	2512.3	2526.0
37.5°	8548.8	4676.0	2444.0	2502.1	2563.6	2591.0	2570.5	2467.9	2437.1	2437.1	2444.0
40°	8794.9	4388.9	2392.7	2488.4	2478.2	2495.3	2344.9	2355.1	2355.1	2358.5	2341.4
42.5°	9013.7	4194.1	2351.7	2406.4	2423.5	2334.6	2242.3	2232.1	2256.0	2252.6	2238.9
45°	9092.3	4033.4	2293.6	2314.1	2327.8	2180.8	2136.3	2115.8	2143.2	2153.4	2167.1
47.5°	8791.5	3900.1	2228.6	2187.6	2160.3	2064.6	2006.5	1968.9	2003.0	2061.1	2074.8
50°	8405.2	3725.8	2126.1	2047.5	1989.4	1948.3	1907.3	1869.7	1893.7	1934.7	1924.4
52.5°	7834.4	3452.3	1996.2	1914.2	1815.0	1825.3	1787.7	1767.2	1780.9	1780.9	1770.6
55°	7020.9	2837.1	1777.4	1719.3	1637.3	1664.6	1671.5	1644.1	1616.8	1640.7	1620.2
57.5°	4792.3	2003.0	1586.0	1586.0	1504.0	1541.6	1538.2	1473.2	1408.3	1415.1	1401.4
60°	2772.1	1596.3	1463.0	1449.3	1363.8	1394.6	1401.4	1357.0	1257.9	1264.7	1251.0
62.5°	1575.8	1363.8	1278.4	1257.9	1240.8	1268.1	1268.1	1210.0	1124.6	1131.4	1117.7
65°	1339.9	1264.7	1141.7	1138.2	1131.4	1138.2	1110.9	1049.4	974.2	943.4	946.8
67.5°	1216.9	1169.0	1049.4	1018.6	998.1	994.7	943.4	885.3	851.1	823.8	820.4
70°	1066.5	1028.9	940.0	899.0	878.5	830.6	779.3	741.7	693.9	680.2	693.9
72.5°	844.3	840.9	806.7	762.2	717.8	680.2	635.8	584.5	540.1	529.8	505.9
75°	584.5	591.3	598.2	591.3	553.7	505.9	454.6	413.6	358.9	328.1	321.3
77.5°	382.8	393.1	403.3	389.7	365.7	321.3	287.1	235.9	194.8	170.9	167.5
80°	280.3	294.0	300.8	290.5	263.2	229.0	191.4	150.4	119.6	99.1	99.1
82.5°	215.3	229.0	235.9	218.8	191.4	164.1	136.7	106.0	82.0	64.9	61.5
85°	75.2	71.8	85.5	88.9	106.0	99.1	82.0	61.5	47.9	34.2	30.8
87.5°	20.5	20.5	23.9	23.9	20.5	17.1	17.1	17.1	13.7	10.3	10.3
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)