

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: P532881

Luminaire Tested: **GALN-SA8B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532881  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31930 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

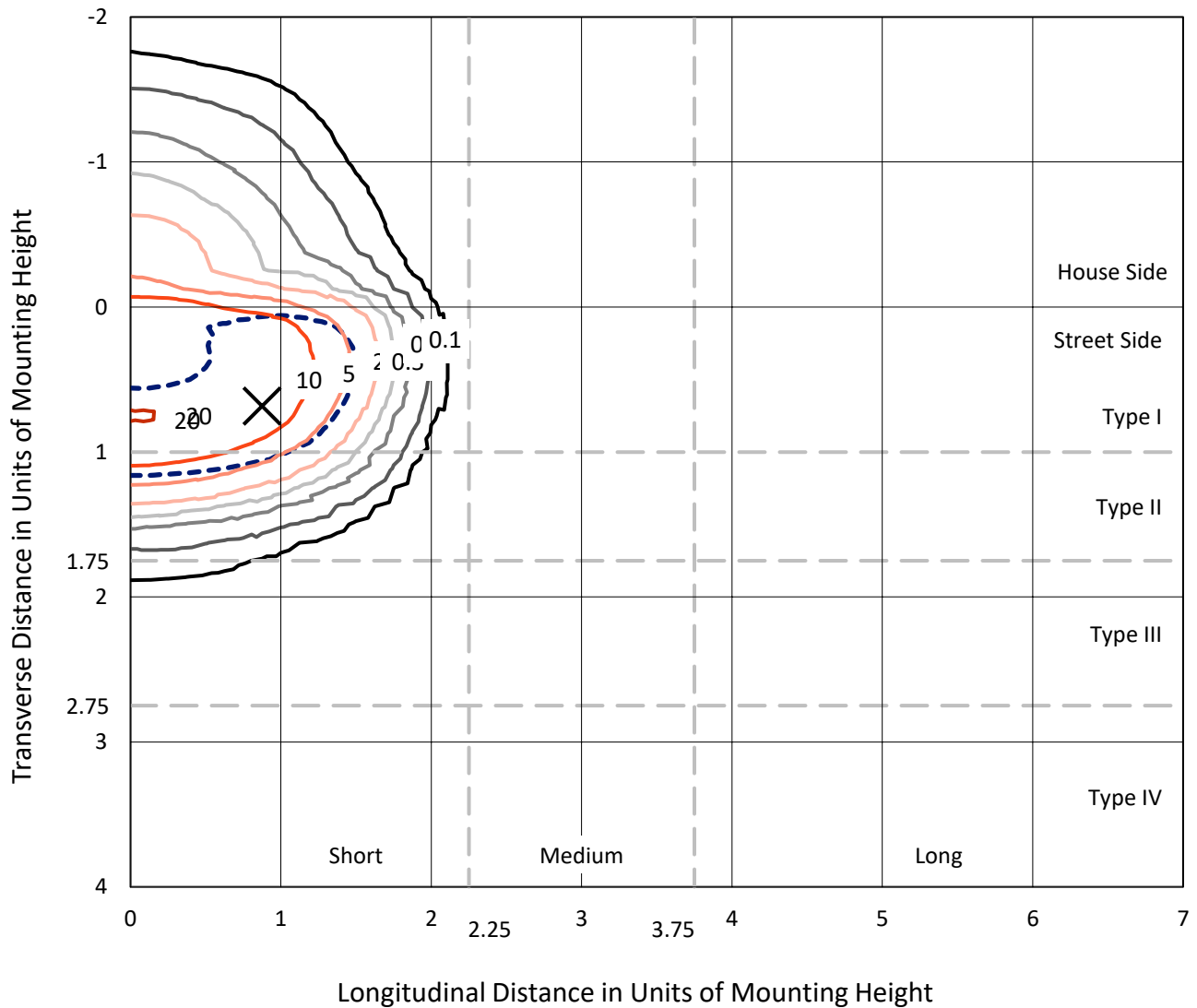
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

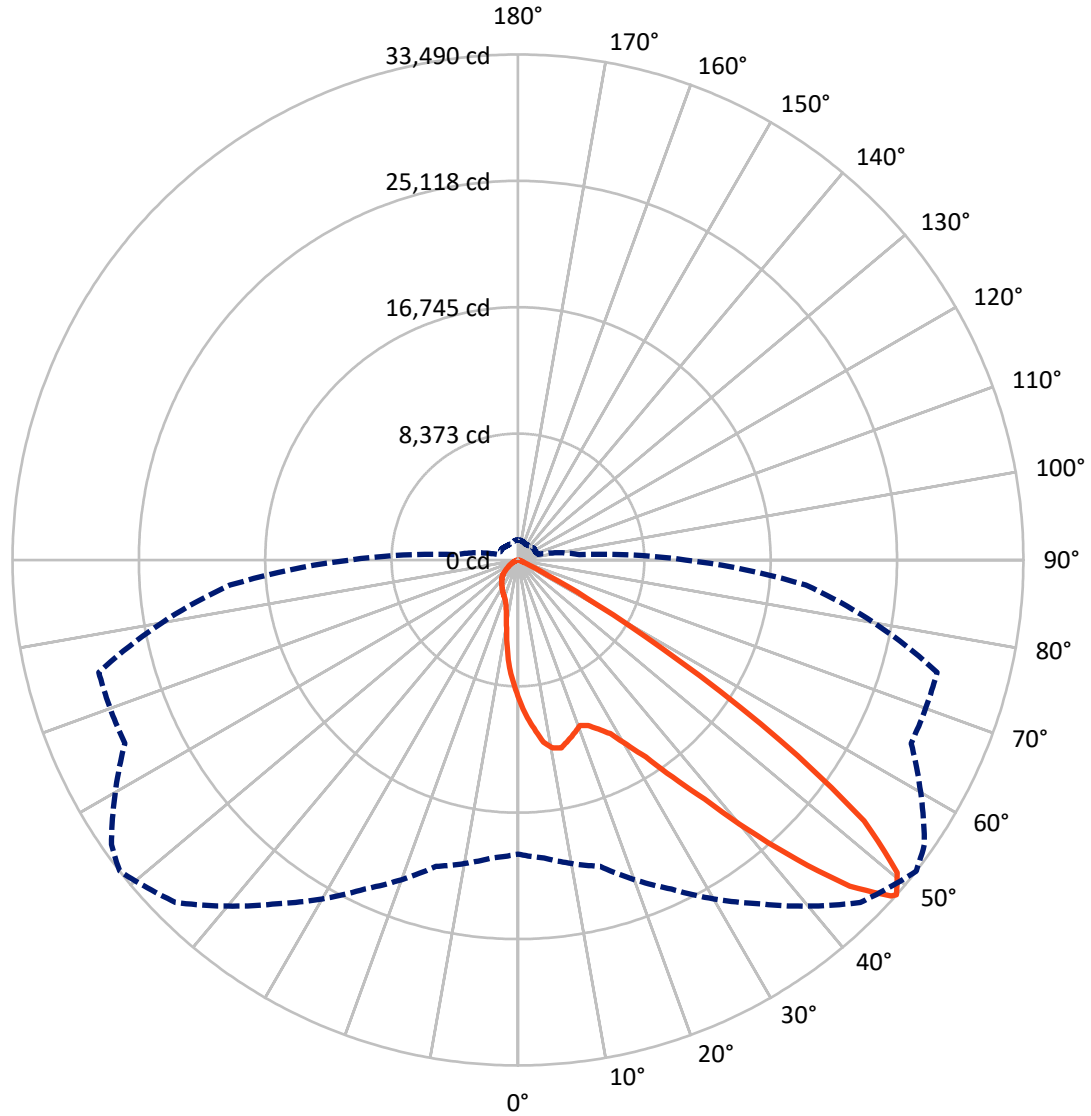
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P532881  
CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3887.7	0.0	3887.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	28042.3	0.0	28042.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	31930.0	0.0	31930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	844.0	2.6
10°-20°	2205.6	6.9
20°-30°	3765.9	11.8
30°-40°	6934.8	21.7
40°-50°	10769.8	33.7
50°-60°	6481.6	20.3
60°-70°	749.7	2.3
70°-80°	145.1	0.5
80°-90°	33.6	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°	31930.0	100.0
0°-180°	31930.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532881

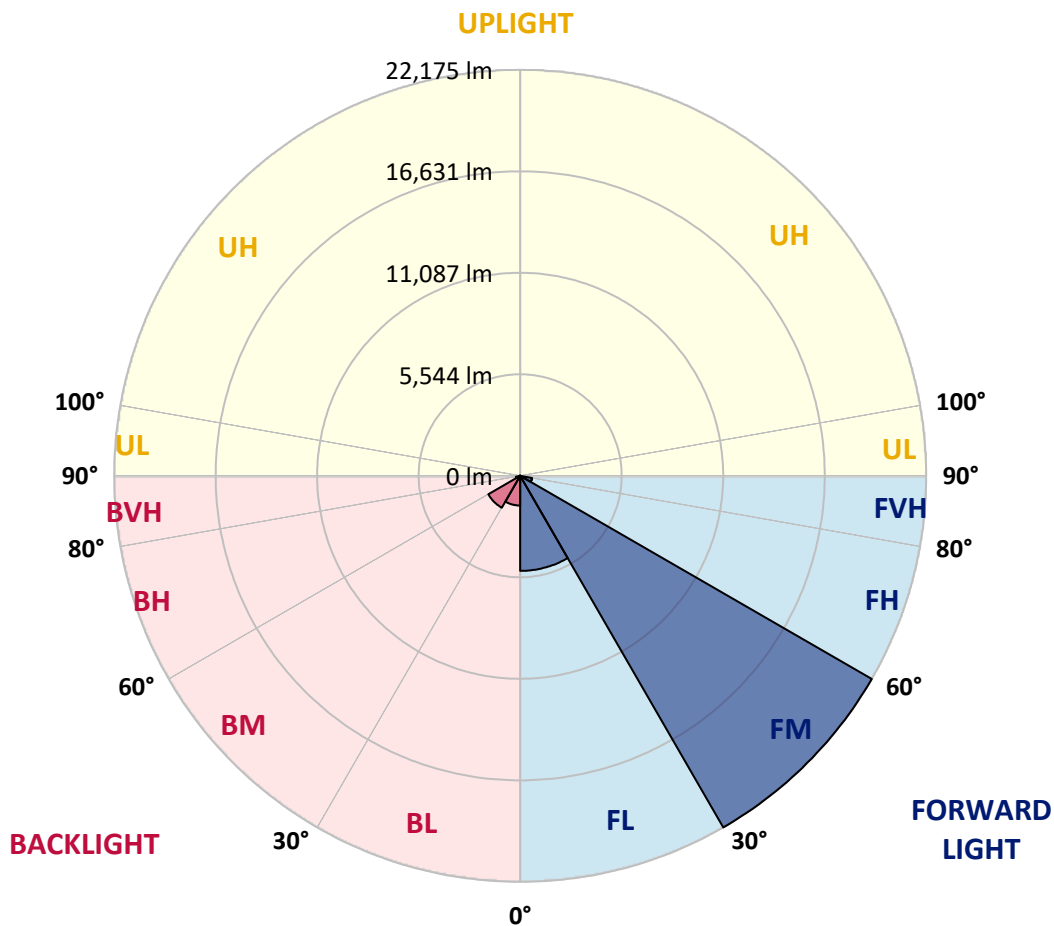
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5191.4	16.3			
FM (30°-60°)	22174.8	69.4			
FH (60°-80°)	660.1	2.1			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	1624.0	5.1	B3/2500		
BM (30°-60°)	2011.5	6.3	B2/2500		
BH (60°-80°)	234.6	0.7	B1/500		G1/500
BVH (80°-90°)	17.6	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 II Short





REPORT NUMBER: P532881

CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9
2.5°	11175.8	10919.8	10943.1	10775.5	10677.8	10519.5	10305.4	10263.5	10030.8	9714.2	9393.1
5°	12181.2	12120.7	12199.8	11957.8	11967.1	11706.4	11203.7	11213.0	10677.8	10161.1	9663.0
7.5°	12246.4	12106.7	12185.9	12400.0	12525.7	12479.1	12195.2	11948.5	11441.1	10682.4	9956.3
10°	10966.3	11231.7	11315.4	11669.2	12171.9	12702.5	12669.9	12683.9	12260.3	11268.9	10207.6
12.5°	10198.3	10021.5	10305.4	10519.5	11278.2	12306.9	12777.0	12879.4	12912.0	11836.8	10459.0
15°	9849.2	9849.2	9895.8	9956.3	10505.5	11455.1	12413.9	12711.8	13414.7	12581.5	10854.6
17.5°	10068.0	10058.7	10123.9	9998.2	10203.0	10933.8	12078.8	12418.6	13977.9	13312.3	11166.5
20°	10733.6	10766.2	10724.3	10361.2	10375.2	10924.5	11706.4	12241.7	14359.6	13945.3	11580.8
22.5°	11659.9	11678.5	11441.1	11045.5	10929.1	11199.1	11920.5	12330.2	14666.8	14704.0	11706.4
25°	12730.5	12656.0	12609.4	12050.9	11697.1	11929.9	12404.6	12642.0	14857.6	15355.7	12064.8
27.5°	14215.3	14066.3	13782.4	13284.4	13023.7	12693.2	13033.0	13424.0	15402.2	16268.0	12455.8
30°	16407.6	16277.3	15723.4	15081.1	14396.8	14071.0	14178.1	14392.2	16384.4	17324.6	12972.5
32.5°	19707.8	19433.1	18632.5	17408.4	16477.4	15579.1	15551.2	15779.2	17264.1	18786.2	13586.9
35°	23343.0	23259.3	22081.6	20820.2	19018.9	17631.8	17655.1	17776.1	18949.1	20703.9	14392.2
37.5°	25758.8	26219.6	25470.2	24115.7	22603.0	20620.1	20117.4	20159.3	21262.4	22975.3	15844.4
40°	27625.3	27234.3	27322.8	27006.3	25972.9	24623.1	23510.6	23291.8	23938.8	25488.8	17287.4
42.5°	26810.8	26829.4	27374.0	28123.4	28379.4	28281.6	27145.9	26731.6	26228.9	27546.2	18660.5
45°	24511.4	24990.8	25698.3	27681.2	29422.0	31055.8	30832.4	30143.5	27811.5	29175.3	19451.8
47.5°	20843.5	20824.9	21983.9	24562.6	28430.6	32256.7	33271.4	32787.3	28933.3	28993.8	19288.9
48°	19489.0	19824.1	21020.4	24055.2	27802.2	32079.8	33490.2	32880.4	28742.4	28751.7	19149.2
50°	14406.1	14345.6	15835.1	19558.8	24832.5	30143.5	32568.6	33043.3	28737.8	27527.6	18171.7
52.5°	7610.3	7871.0	8955.5	12297.6	17557.3	24669.6	28728.5	29468.6	27723.1	25526.1	16766.0
55°	3235.0	2923.1	3756.3	5553.0	9877.2	16482.1	21076.2	22724.0	23440.8	22589.0	14666.8
57.5°	1154.4	1261.4	1452.2	2089.9	4151.9	9020.7	12567.5	13847.6	16240.1	16575.2	9993.5
60°	740.1	754.1	814.6	958.9	1559.3	3477.0	5962.6	6982.0	8066.5	8327.2	4664.0
62.5°	572.5	577.2	605.1	628.4	740.1	1349.8	2238.9	2653.1	2755.6	2369.2	1224.2
65°	479.4	484.1	493.4	493.4	526.0	633.0	782.0	861.1	837.8	828.5	693.5
67.5°	367.7	377.0	395.6	395.6	414.3	386.3	432.9	460.8	521.3	633.0	591.1
70°	288.6	293.2	307.2	316.5	316.5	279.3	311.9	339.8	381.7	470.1	465.5
72.5°	223.4	232.7	242.0	242.0	228.1	190.8	223.4	246.7	274.6	325.8	316.5
75°	172.2	172.2	176.9	144.3	111.7	97.7	135.0	162.9	204.8	214.1	176.9
77.5°	46.5	51.2	46.5	41.9	46.5	69.8	88.4	102.4	130.3	130.3	116.4
80°	0.0	4.7	14.0	27.9	46.5	65.2	79.1	88.4	102.4	111.7	107.1
82.5°	0.0	4.7	14.0	27.9	41.9	51.2	69.8	74.5	83.8	97.7	97.7
85°	0.0	4.7	9.3	18.6	27.9	32.6	32.6	27.9	27.9	23.3	18.6
87.5°	0.0	0.0	4.7	9.3	9.3	14.0	14.0	14.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532881

CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9	9220.9
2.5°	9267.4	9123.1	8904.3	8559.9	8229.4	8015.3	7810.5	7582.4	7456.7	7447.4	7377.6
5°	9379.1	9053.3	8532.0	7940.8	7307.8	6763.2	6214.0	5855.5	5534.4	5357.5	5324.9
7.5°	9439.6	9016.0	8173.6	7182.1	6102.2	5213.2	4598.8	4147.3	3970.4	3840.1	3835.4
10°	9565.3	8950.9	7638.3	6176.7	4840.8	3942.5	3518.9	3314.1	3216.4	3179.1	3123.3
12.5°	9658.4	8829.9	7089.0	5143.4	3826.1	3267.6	3081.4	3034.8	3039.5	3058.1	3034.8
15°	9788.7	8722.8	6348.9	4221.8	3211.7	2941.7	2941.7	2951.0	3016.2	3025.5	3020.9
17.5°	9779.4	8513.3	5585.6	3477.0	2839.3	2802.1	2816.1	2904.5	2946.4	2960.4	2927.8
20°	9891.1	8317.9	4798.9	2969.7	2629.9	2685.7	2778.8	2802.1	2853.3	2862.6	2825.4
22.5°	9858.5	7829.1	4068.2	2569.4	2471.6	2578.7	2671.8	2699.7	2685.7	2657.8	2653.1
25°	9798.0	7410.2	3397.9	2304.0	2355.3	2471.6	2560.1	2508.9	2480.9	2485.6	2490.2
27.5°	9691.0	6879.6	2844.0	2117.9	2197.0	2369.2	2364.6	2345.9	2373.9	2350.6	2373.9
30°	9672.4	6348.9	2387.8	1950.3	2080.6	2206.3	2215.6	2248.2	2280.8	2238.9	2280.8
32.5°	9700.3	5767.1	2062.0	1847.9	2010.8	2015.5	2117.9	2150.4	2127.2	2034.1	2043.4
35°	9914.4	5320.3	1824.6	1792.0	1899.1	1903.8	2001.5	1959.6	1857.2	1801.3	1833.9
37.5°	10365.9	4947.9	1712.9	1740.8	1750.1	1810.7	1815.3	1731.5	1740.8	1736.2	1754.8
40°	10943.1	4664.0	1633.8	1694.3	1685.0	1726.9	1559.3	1605.9	1647.7	1661.7	1671.0
42.5°	11338.7	4459.2	1582.6	1619.8	1601.2	1526.7	1433.6	1480.2	1512.8	1564.0	1573.3
45°	11515.6	4296.2	1522.1	1489.5	1489.5	1354.5	1317.3	1326.6	1401.0	1456.9	1447.6
47.5°	11227.0	4138.0	1415.0	1317.3	1349.8	1238.1	1196.2	1196.2	1275.4	1345.2	1331.2
48°	11115.3	4072.8	1419.7	1280.0	1303.3	1219.5	1177.6	1168.3	1256.8	1321.9	1321.9
50°	10561.4	3830.8	1298.6	1177.6	1131.1	1121.8	1093.8	1103.2	1159.0	1219.5	1219.5
52.5°	9481.5	3309.5	1098.5	1010.1	926.3	982.1	996.1	977.5	1005.4	1061.3	1056.6
55°	7912.9	2541.4	879.7	837.8	772.7	833.2	861.1	837.8	809.9	851.8	851.8
57.5°	5068.9	1368.5	702.9	712.2	647.0	707.5	730.8	674.9	623.7	656.3	651.7
60°	2285.4	819.2	577.2	563.2	521.3	591.1	628.4	563.2	493.4	516.7	539.9
62.5°	856.5	581.8	437.5	428.2	418.9	484.1	502.7	451.5	381.7	395.6	400.3
65°	628.4	512.0	349.1	316.5	335.1	381.7	372.4	321.2	274.6	274.6	283.9
67.5°	535.3	446.8	283.9	246.7	246.7	251.4	232.7	204.8	190.8	200.1	209.5
70°	418.9	353.8	223.4	190.8	172.2	153.6	135.0	130.3	116.4	130.3	125.7
72.5°	270.0	237.4	172.2	144.3	130.3	107.1	88.4	83.8	69.8	65.2	65.2
75°	144.3	144.3	135.0	116.4	102.4	83.8	69.8	55.9	37.2	27.9	27.9
77.5°	102.4	111.7	121.0	111.7	93.1	69.8	55.9	37.2	18.6	9.3	9.3
80°	97.7	111.7	121.0	107.1	93.1	69.8	51.2	27.9	14.0	4.7	4.7
82.5°	88.4	102.4	111.7	97.7	83.8	60.5	46.5	27.9	14.0	4.7	4.7
85°	18.6	23.3	27.9	27.9	32.6	41.9	32.6	23.3	9.3	4.7	4.7
87.5°	14.0	14.0	14.0	14.0	14.0	14.0	9.3	9.3	4.7	4.7	4.7
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)