

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: P534067

Luminaire Tested: **GALN-SA9C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35455 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

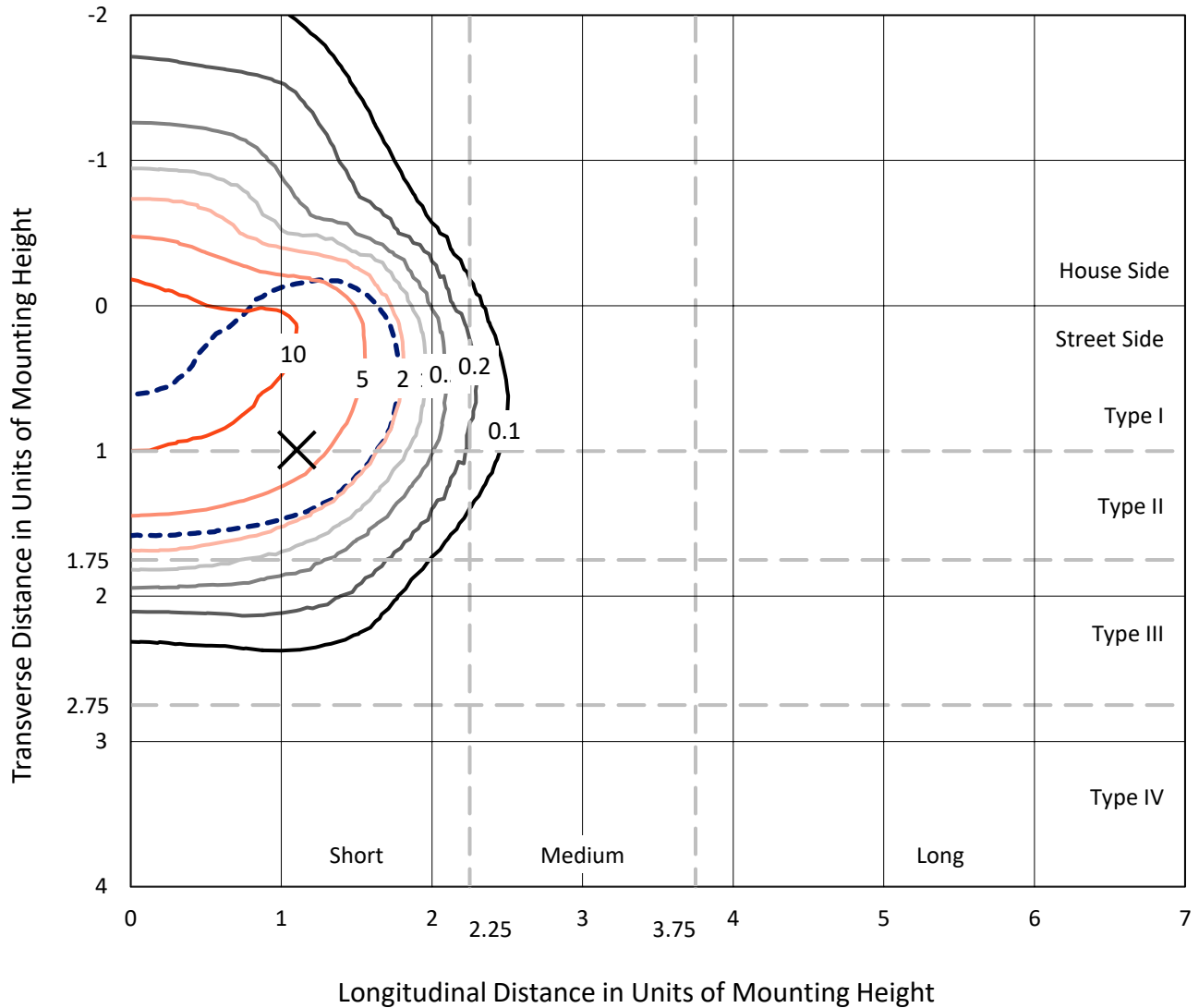
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

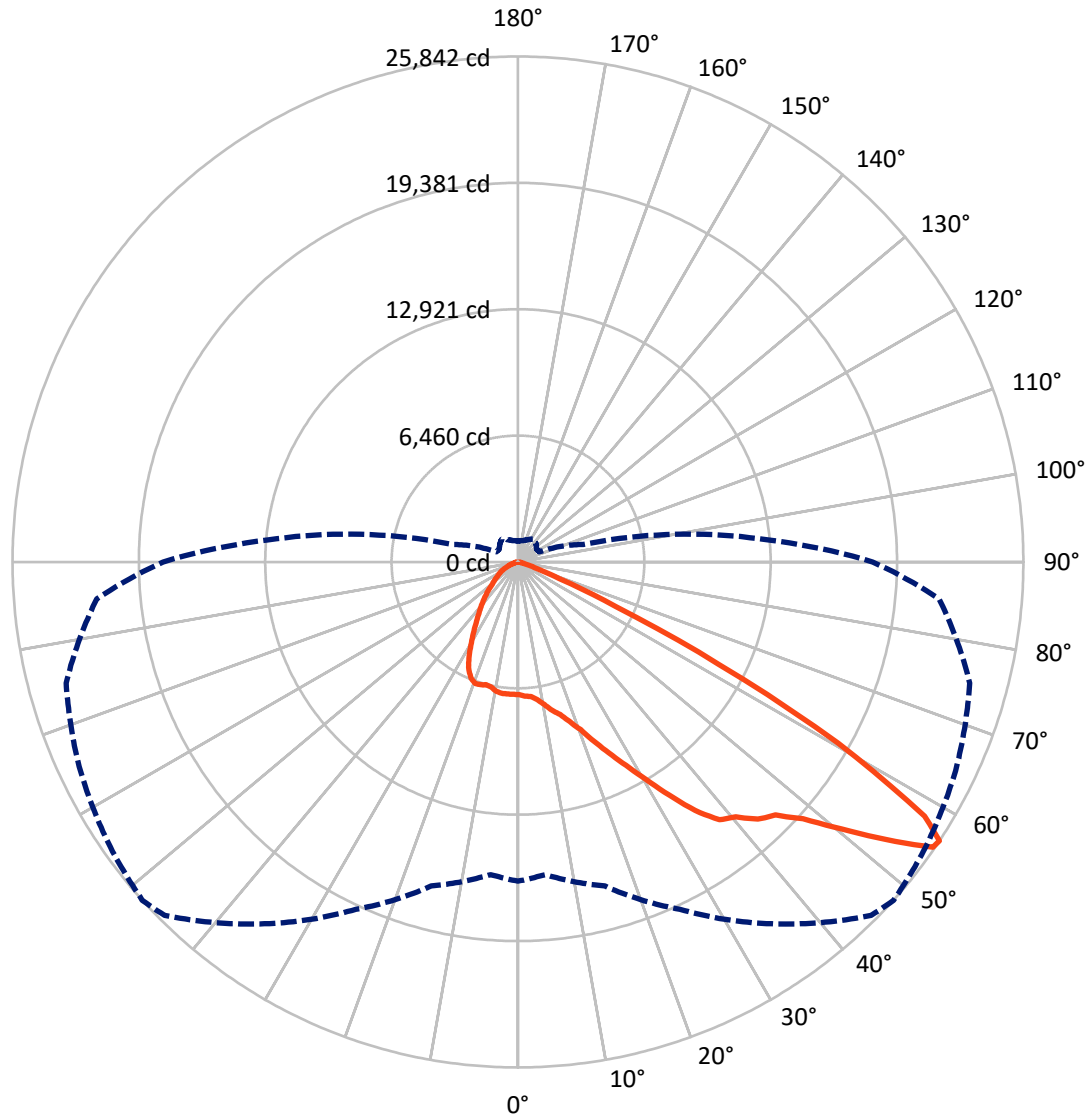
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7710.8	0.0	7710.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	27744.2	0.0	27744.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	35455.0	0.0	35455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	659.7	1.9
10°-20°	2108.2	5.9
20°-30°	3823.8	10.8
30°-40°	6006.4	16.9
40°-50°	8762.2	24.7
50°-60°	10556.8	29.8
60°-70°	3090.9	8.7
70°-80°	392.1	1.1
80°-90°	55.0	0.2
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°	35455.0	100.0
0°-180°	35455.0	100.0

**Coefficient of Utilization**

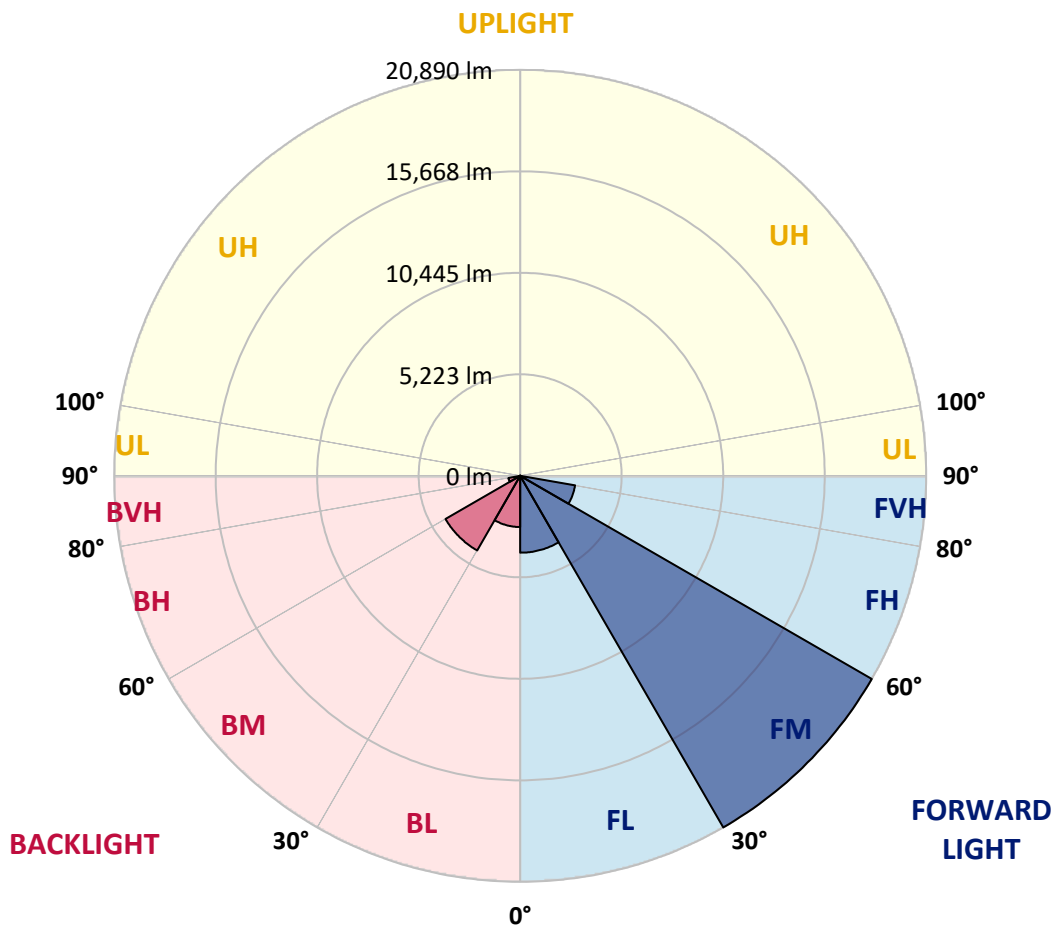


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3956.1	11.2			
FM (30°-60°)	20890.2	58.9			
FH (60°-80°)	2870.3	8.1			G2/5000
FVH (80°-90°)	27.6	0.1			G1/100
BL (0°-30°)	2635.5	7.4	B4/5000		
BM (30°-60°)	4435.2	12.5	B3/5000		
BH (60°-80°)	612.7	1.7	B2/1000		G2/1000
BVH (80°-90°)	27.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9
2.5°	6894.6	6862.3	6862.3	6810.7	6868.8	6842.9	6862.3	6797.7	6862.3	6765.5	6842.9
5°	6926.9	6933.3	6907.5	6939.8	6939.8	6978.5	6913.9	6972.0	7004.3	6933.3	6901.0
7.5°	7094.7	7107.6	7101.2	7075.3	7127.0	7120.5	7114.1	7068.9	7081.8	7056.0	7017.2
10°	7423.9	7417.5	7449.8	7385.2	7346.5	7391.7	7404.6	7333.6	7281.9	7262.5	7139.9
12.5°	7901.6	7824.2	7779.0	7714.4	7733.8	7669.2	7785.4	7662.8	7637.0	7520.8	7398.1
15°	8289.0	8276.1	8282.5	8179.2	8063.0	8088.9	8088.9	8024.3	7985.6	7843.5	7669.2
17.5°	9083.0	8811.9	8870.0	8740.9	8644.0	8637.6	8579.5	8592.4	8489.1	8192.2	7927.5
20°	9702.8	9586.6	9496.2	9276.7	9128.2	9173.4	9147.6	9083.0	9050.7	8663.4	8289.0
22.5°	10257.9	10296.7	10148.2	10090.1	9883.5	9902.9	9954.5	9896.4	9651.1	9250.9	8695.7
25°	11039.1	10993.9	10793.8	10722.7	10529.1	10600.1	10800.2	10755.0	10600.1	9877.1	9012.0
27.5°	11962.2	11807.3	11846.0	11523.2	11336.0	11536.2	11775.0	12001.0	11562.0	10613.0	9386.4
30°	12614.2	12452.8	12439.9	12427.0	12381.8	12614.2	12891.8	13098.4	12743.3	11348.9	10006.2
32.5°	12937.0	12975.7	13085.5	13046.8	13440.6	13918.3	14208.8	14505.7	14060.3	12549.7	10826.0
35°	13795.6	13550.3	13795.6	13821.4	14228.1	15241.7	15609.6	16319.7	16210.0	14247.5	11826.7
37.5°	14299.1	14279.8	14312.1	14557.4	14951.2	16203.5	16726.4	17275.2	17068.6	15267.5	13072.6
40°	15131.9	15183.6	15177.1	15364.3	15796.8	16926.6	17139.6	17585.0	17604.4	16681.3	14906.0
42.5°	16468.2	16261.6	16126.1	16319.7	16926.6	17552.8	17978.8	17888.5	18527.6	18398.4	17262.3
45°	17669.0	17791.6	17591.5	17914.3	18133.8	18469.5	18456.5	18650.2	19463.6	20076.9	19037.6
47.5°	18792.2	18869.7	18966.5	19186.0	19663.7	19715.4	19605.6	19521.7	20645.0	21277.6	20412.6
50°	19463.6	19534.6	19986.5	20380.3	21271.2	21387.4	21451.9	21238.9	22000.7	22071.7	21710.2
52.5°	19282.9	19360.3	19993.0	21290.6	22710.8	23776.0	23582.3	23220.8	23175.6	23453.2	22910.9
55°	17681.9	17610.9	18482.4	20503.0	23162.7	25719.1	25744.9	25364.0	24634.6	24447.3	22730.2
56°	16319.7	16042.2	17152.5	19592.7	22581.7	25551.2	25841.8	25435.0	24750.8	23911.5	21613.3
57.5°	13369.5	13634.2	14738.1	16758.7	20574.0	24344.1	24511.9	24415.1	23898.6	22491.3	19018.2
60°	7372.3	7837.1	8811.9	11284.4	14647.7	18682.5	18818.1	19605.6	19702.5	17223.5	13085.5
62.5°	3131.0	3079.3	4092.8	5913.3	8340.6	11277.9	11529.7	12336.6	12485.1	9928.7	6565.3
65°	1271.8	1342.8	1852.8	2976.0	4409.2	5138.7	5493.7	5758.4	6249.0	4099.3	2420.8
67.5°	839.2	832.8	1091.0	1697.8	2375.7	2291.7	2291.7	2420.8	2240.1	1672.0	1045.8
70°	600.4	619.7	781.1	1174.9	1478.3	1097.5	1052.3	1007.1	1142.6	1103.9	845.7
72.5°	393.8	419.6	522.9	703.7	768.2	600.4	600.4	723.0	942.5	890.9	690.7
75°	258.2	264.7	322.8	406.7	380.9	309.9	342.1	484.2	684.3	658.5	490.6
77.5°	174.3	180.8	219.5	264.7	213.0	174.3	187.2	245.3	335.7	335.7	258.2
80°	64.6	71.0	90.4	83.9	96.8	122.7	135.6	167.8	200.1	200.1	174.3
82.5°	0.0	6.5	19.4	45.2	71.0	96.8	109.7	129.1	148.5	167.8	161.4
85°	0.0	6.5	19.4	32.3	51.6	58.1	64.6	45.2	38.7	38.7	32.3
87.5°	0.0	0.0	6.5	6.5	6.5	6.5	6.5	6.5	12.9	6.5	6.5
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°	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9	6771.9
2.5°	6771.9	6765.5	6765.5	6746.1	6784.8	6765.5	6778.4	6771.9	6688.0	6752.6	6707.4
5°	6842.9	6888.1	6817.1	6804.2	6752.6	6771.9	6771.9	6707.4	6765.5	6759.0	6746.1
7.5°	7023.7	6946.2	6868.8	6791.3	6778.4	6759.0	6688.0	6662.2	6707.4	6655.7	6733.2
10°	7101.2	7114.1	6997.9	6894.6	6797.7	6662.2	6565.3	6507.2	6436.2	6513.7	6558.9
12.5°	7456.2	7327.1	7127.0	6965.6	6636.4	6500.8	6404.0	6378.1	6500.8	6526.6	6481.4
15°	7578.9	7559.5	7301.3	6939.8	6597.6	6436.2	6455.6	6404.0	6416.9	6352.3	6365.2
17.5°	7830.6	7611.1	7307.7	6855.8	6591.2	6552.4	6436.2	6229.7	6113.4	6061.8	6107.0
20°	8108.2	7895.2	7456.2	6888.1	6649.3	6546.0	6165.1	5913.3	5674.5	5545.4	5551.8
22.5°	8353.5	8088.9	7391.7	6901.0	6700.9	6274.8	5816.5	5319.4	5022.5	4822.3	4828.8
25°	8650.5	8276.1	7417.5	6926.9	6565.3	5842.3	5183.8	4699.7	4344.6	4209.0	4254.2
27.5°	8818.3	8392.3	7559.5	6985.0	6210.3	5229.0	4518.9	4067.0	3860.4	3795.9	3789.4
30°	9321.9	8650.5	7733.8	6868.8	5616.4	4570.6	3912.1	3634.5	3434.4	3376.3	3389.2
32.5°	10070.7	9121.8	7959.8	6565.3	5009.5	3983.1	3518.3	3311.7	3124.5	3014.8	3001.9
35°	10696.9	9928.7	8198.6	6094.1	4305.9	3531.2	3240.7	2982.5	2698.4	2575.8	2543.5
37.5°	11891.2	10838.9	8147.0	5384.0	3634.5	3195.5	2943.8	2627.4	2382.1	2214.3	2194.9
40°	13479.3	11904.1	7895.2	4518.9	3137.4	2898.6	2627.4	2324.0	2020.6	1878.6	1865.7
42.5°	15409.5	13208.1	7436.8	3641.0	2640.3	2601.6	2356.3	2007.7	1736.6	1633.3	1639.7
45°	16978.2	14325.0	6972.0	2924.4	2272.4	2311.1	2098.1	1768.8	1581.6	1497.7	1497.7
47.5°	18372.6	15080.3	6468.5	2414.4	1930.2	2020.6	1833.4	1639.7	1478.3	1413.8	1400.9
50°	19715.4	15848.5	5965.0	1956.0	1646.2	1736.6	1717.2	1562.3	1433.1	1355.7	1362.1
52.5°	20554.6	15971.1	5325.9	1601.0	1439.6	1542.9	1607.4	1465.4	1323.4	1278.2	1265.3
55°	19528.2	14389.5	4131.6	1316.9	1220.1	1355.7	1478.3	1316.9	1207.2	1129.7	1123.3
56°	18146.7	12866.0	3453.7	1213.7	1155.6	1304.0	1433.1	1258.8	1136.2	1091.0	1058.7
57.5°	15364.3	10529.1	2550.0	1078.1	1071.6	1213.7	1362.1	1200.7	1058.7	1020.0	1020.0
60°	9580.1	5926.2	1542.9	903.8	929.6	1078.1	1226.6	1071.6	942.5	942.5	961.9
62.5°	4364.0	2466.0	936.1	768.2	800.5	929.6	1091.0	968.3	897.3	968.3	981.3
65°	1484.8	1065.2	677.8	613.3	632.6	768.2	936.1	981.3	974.8	1020.0	1045.8
67.5°	832.8	684.3	568.1	510.0	497.1	568.1	768.2	981.3	942.5	923.2	936.1
70°	703.7	581.0	503.5	451.9	432.5	458.3	593.9	742.4	664.9	645.6	632.6
72.5°	568.1	484.2	439.0	406.7	348.6	297.0	271.1	284.0	316.3	335.7	368.0
75°	400.2	368.0	368.0	329.2	251.8	187.2	148.5	122.7	83.9	58.1	64.6
77.5°	225.9	225.9	232.4	200.1	161.4	122.7	90.4	64.6	32.3	12.9	6.5
80°	154.9	167.8	180.8	161.4	135.6	109.7	77.5	45.2	19.4	0.0	0.0
82.5°	154.9	174.3	187.2	161.4	135.6	103.3	77.5	45.2	19.4	6.5	0.0
85°	32.3	38.7	45.2	51.6	77.5	77.5	58.1	38.7	19.4	6.5	0.0
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	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)