

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: P533535

Luminaire Tested: **GALN-SA9A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20238 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

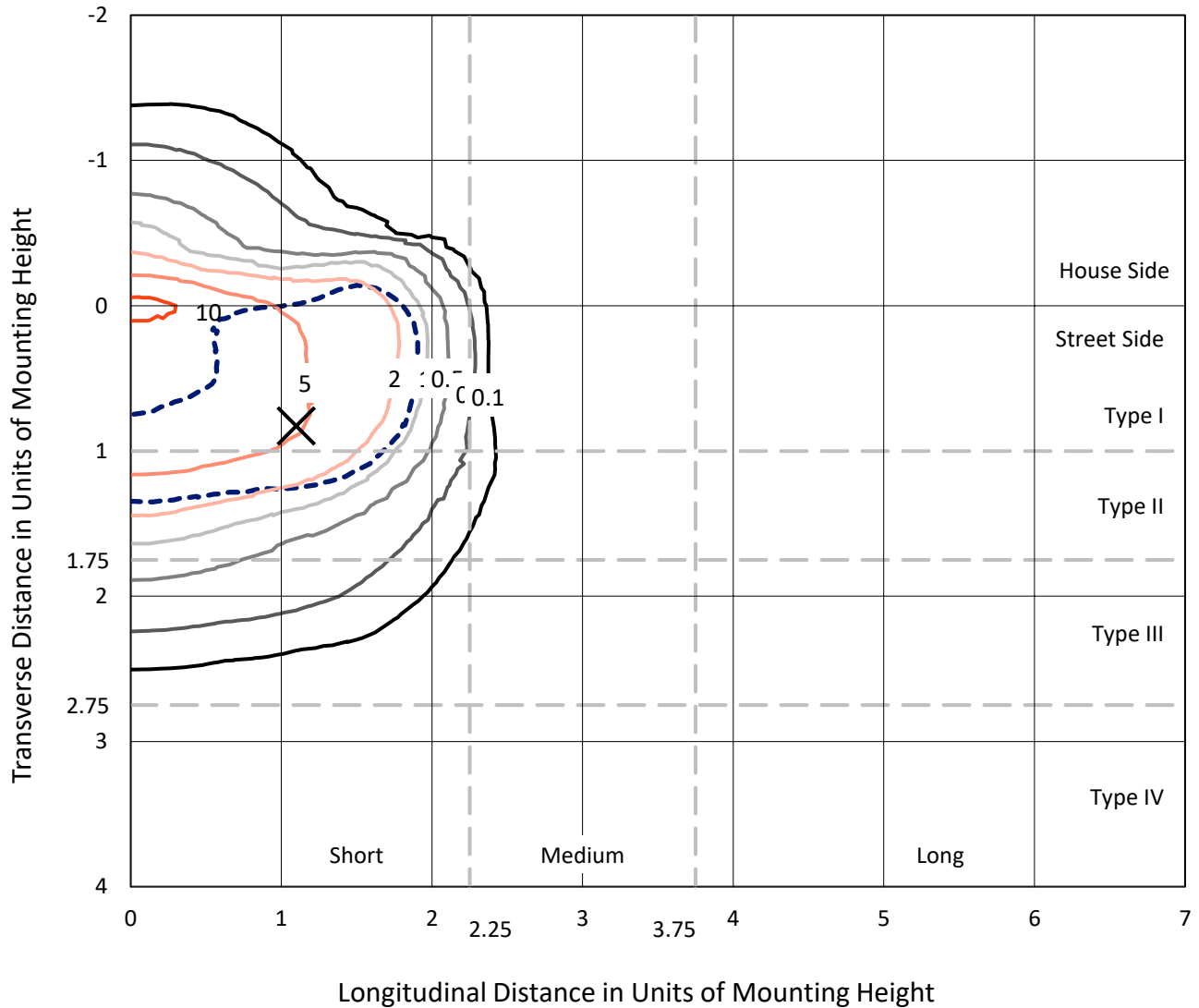
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

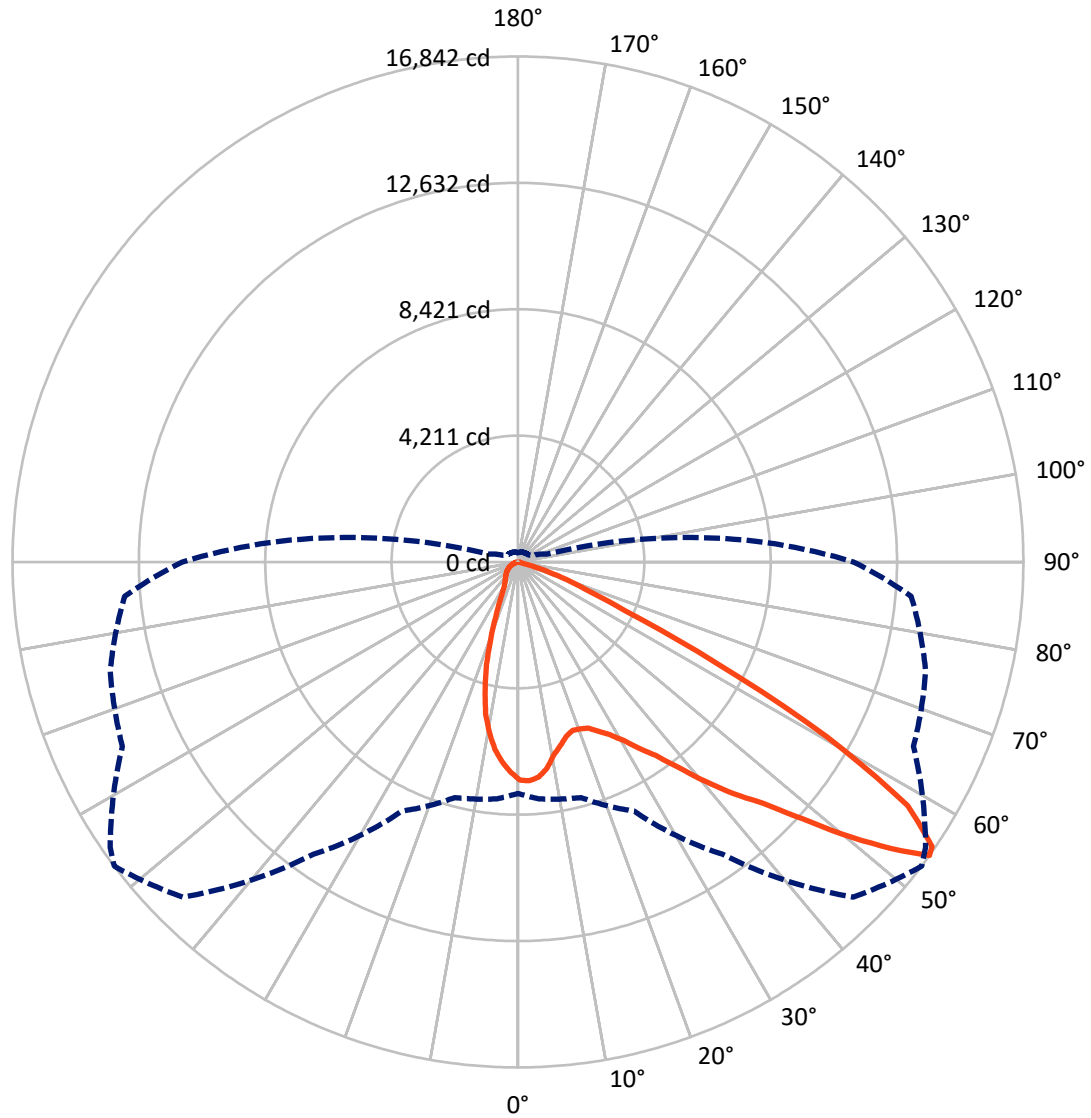
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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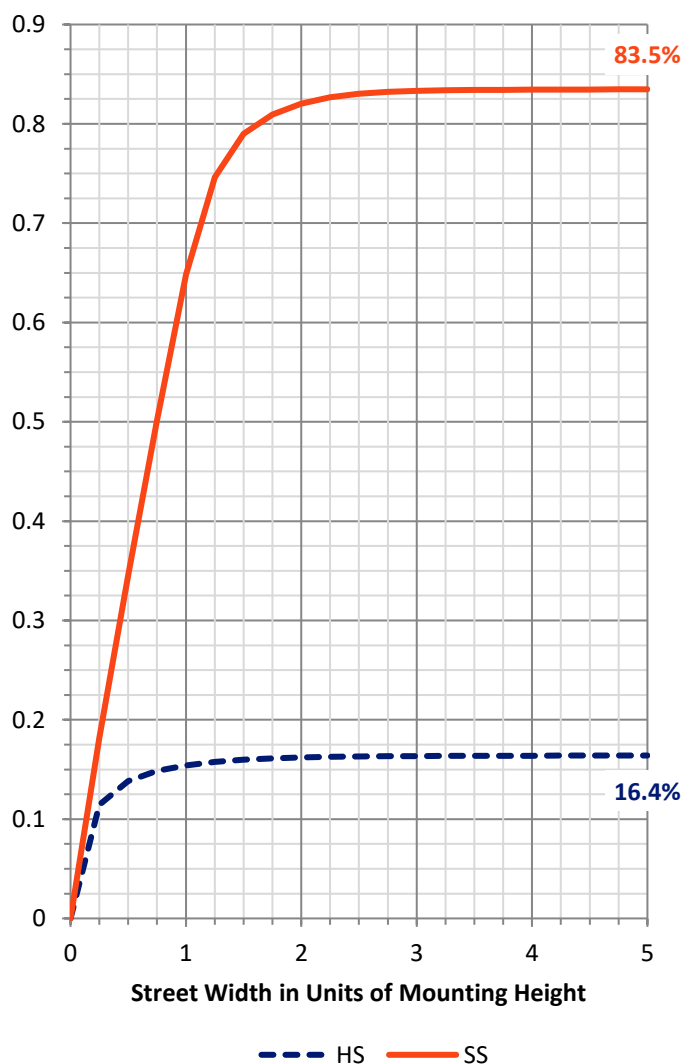
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3348.4	0.0	3348.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16889.6	0.0	16889.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20238.0	0.0	20238.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.7	3.1
10°-20°	1429.9	7.1
20°-30°	2032.2	10.0
30°-40°	3136.2	15.5
40°-50°	4917.3	24.3
50°-60°	5712.1	28.2
60°-70°	2158.4	10.7
70°-80°	205.2	1.0
80°-90°	23.1	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°	20238.0	100.0
0°-180°	20238.0	100.0

**Coefficient of Utilization**

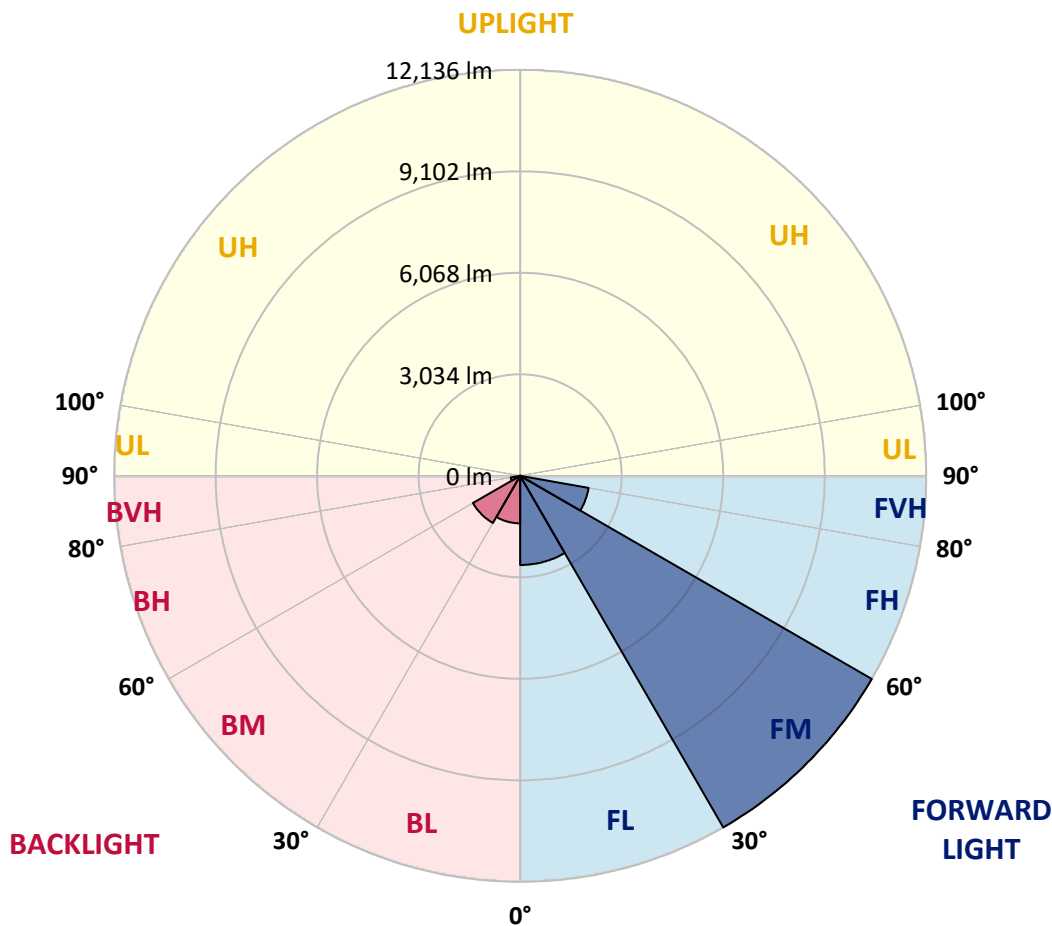


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2664.8	13.2			
FM (30°-60°)	12136.1	60.0			
FH (60°-80°)	2076.7	10.3			G2/5000
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	1420.9	7.0	B3/2500		
BM (30°-60°)	1629.4	8.1	B2/2500		
BH (60°-80°)	286.9	1.4	B1/500		G1/500
BVH (80°-90°)	11.2	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1
2.5°	7231.4	7167.4	7231.4	7239.0	7284.2	7325.7	7299.3	7359.6	7325.7	7288.0	7276.7
5°	6647.0	6733.8	6737.5	6873.3	6843.1	7091.9	7201.3	7171.1	7355.9	7344.6	7318.2
7.5°	6123.0	6089.0	6134.3	6292.6	6492.5	6779.0	6937.4	6933.6	7197.5	7386.0	7367.2
10°	5636.6	5632.8	5727.1	5851.5	6021.2	6322.8	6541.5	6650.8	7061.8	7348.3	7389.8
12.5°	5308.6	5293.5	5395.3	5497.1	5764.8	5998.6	6277.6	6330.3	6801.6	7216.4	7284.2
15°	5093.7	5127.6	5135.2	5331.2	5500.9	5810.0	6028.7	6138.1	6681.0	7110.8	7370.9
17.5°	5056.0	5101.2	5105.0	5267.1	5448.1	5708.2	5900.5	6047.6	6579.2	7163.6	7374.7
20°	5131.4	5105.0	5127.6	5229.4	5406.6	5655.5	5934.5	5983.5	6545.2	7190.0	7416.2
22.5°	5346.3	5338.8	5282.2	5365.1	5489.6	5749.7	6013.6	6089.0	6643.3	7325.7	7450.1
25°	5583.8	5625.3	5572.5	5561.2	5647.9	5904.3	6254.9	6353.0	6971.3	7570.8	7555.7
27.5°	6028.7	5987.2	5987.2	5934.5	5911.8	6036.3	6515.1	6677.2	7337.0	7887.5	7676.3
30°	6454.8	6500.0	6466.1	6484.9	6334.1	6322.8	6884.6	7084.4	7985.5	8370.1	7932.7
32.5°	7129.6	7069.3	7125.9	7076.9	6877.0	6673.4	7386.0	7593.4	8769.7	8924.3	8317.3
35°	7691.4	7665.0	7906.3	7898.8	7574.5	7374.7	7917.6	8226.8	9316.4	9587.9	8769.7
37.5°	8490.7	8441.7	8716.9	8848.9	8558.6	8260.7	8679.2	9037.4	9825.4	10119.5	9233.5
40°	9312.7	9437.1	9806.6	10025.2	9716.1	9320.2	9610.5	9719.8	10164.7	10466.4	9550.2
42.5°	10353.3	10534.2	10911.3	11099.8	11073.4	10643.6	10556.9	10553.1	10409.8	10368.3	9783.9
45°	11352.4	11284.5	11865.2	12276.1	12607.9	12483.5	11469.3	11356.2	10798.2	10515.4	9844.3
47.5°	11789.7	11767.1	12163.0	12894.4	14025.5	14180.1	12796.4	12359.1	11454.2	11133.7	10172.3
50°	11224.2	11341.1	11733.2	12543.8	14278.1	15458.3	14425.2	13837.0	12219.6	11887.8	10949.0
52.5°	9376.7	9455.9	9829.2	10858.5	13418.5	16212.3	15986.1	15646.8	13625.9	13075.4	12302.5
54°	7710.3	7921.4	8125.0	9158.1	11887.8	15793.8	16842.0	16581.8	14542.1	14063.2	13154.6
55°	6714.9	6839.3	6986.4	8015.7	10828.3	15085.0	16743.9	16766.5	15156.6	14372.4	13727.7
57.5°	4905.2	4991.9	4841.1	5297.3	7435.0	12249.7	15315.0	15925.8	15986.1	14836.2	14078.3
60°	3747.7	3785.4	3615.7	3687.4	4622.4	8407.8	11846.3	12581.5	14421.4	12966.1	11925.5
62.5°	2906.9	2914.4	2910.7	3035.1	3185.9	4946.6	7408.6	8060.9	9942.3	9207.1	8098.6
65°	2141.5	2107.6	2167.9	2545.0	2718.4	3110.5	3902.3	4377.3	5402.8	4562.1	3261.3
67.5°	1387.5	1398.8	1459.1	1892.7	2330.0	2386.6	2401.7	2364.0	2367.8	1304.5	818.2
70°	833.2	852.1	833.2	1070.8	1666.5	1711.7	1564.7	1527.0	1191.4	309.2	305.4
72.5°	493.9	467.5	418.5	460.0	693.7	829.5	746.5	742.8	467.5	181.0	181.0
75°	207.4	188.5	154.6	139.5	184.7	177.2	177.2	158.4	124.4	120.6	113.1
77.5°	41.5	41.5	30.2	33.9	45.2	52.8	64.1	64.1	75.4	75.4	71.6
80°	0.0	3.8	11.3	22.6	33.9	49.0	56.6	56.6	64.1	64.1	52.8
82.5°	0.0	3.8	11.3	22.6	30.2	45.2	56.6	56.6	64.1	67.9	56.6
85°	0.0	3.8	11.3	18.9	30.2	37.7	37.7	33.9	26.4	22.6	15.1
87.5°	0.0	0.0	3.8	7.5	3.8	7.5	7.5	7.5	7.5	7.5	7.5
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°	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1	7269.1
2.5°	7303.1	7299.3	7208.8	7061.8	7027.8	6903.4	6888.3	6812.9	6854.4	6714.9	6699.8
5°	7242.8	7197.5	7088.2	6993.9	6718.7	6522.6	6368.0	6179.5	6070.2	6089.0	6017.4
7.5°	7329.5	7212.6	7020.3	6692.3	6356.7	6013.6	5828.9	5444.3	5304.8	5097.5	5067.3
10°	7239.0	7152.3	6854.4	6311.5	5847.7	5353.8	4920.2	4494.2	4170.0	4030.5	4000.3
12.5°	7231.4	7080.6	6583.0	5979.7	5308.6	4599.8	3970.1	3438.5	3118.0	2937.1	2895.6
15°	7114.6	6933.6	6277.6	5466.9	4539.4	3657.2	2971.0	2458.2	2213.2	2107.6	2137.8
17.5°	7125.9	6854.4	5972.2	4924.0	3781.6	2684.5	2028.4	1764.5	1700.4	1726.8	1726.8
20°	7114.6	6677.2	5602.7	4298.1	2895.6	1862.5	1489.3	1395.0	1436.5	1519.4	1500.6
22.5°	7054.2	6594.3	5263.3	3638.3	2130.2	1379.9	1195.2	1199.0	1263.1	1364.9	1387.5
25°	7099.5	6409.5	4833.5	2971.0	1553.4	1100.9	1036.8	1063.2	1131.1	1206.5	1221.6
27.5°	7065.6	6277.6	4384.9	2307.4	1134.9	946.3	942.6	972.7	1002.9	1059.5	1059.5
30°	7103.3	6156.9	3943.7	1715.5	935.0	867.2	852.1	874.7	904.9	916.2	912.4
32.5°	7242.8	6066.4	3434.7	1281.9	825.7	791.8	791.8	791.8	788.0	803.1	806.8
35°	7548.2	6081.5	2986.1	991.6	754.1	727.7	716.4	701.3	693.7	701.3	705.0
37.5°	7879.9	6074.0	2522.3	844.5	701.3	678.7	652.3	629.6	625.9	633.4	622.1
40°	8027.0	6145.6	2092.5	757.8	652.3	625.9	584.4	565.5	569.3	576.9	569.3
42.5°	8226.8	6168.2	1813.5	690.0	607.0	565.5	539.2	516.5	512.8	524.1	520.3
45°	8223.0	6040.0	1519.4	652.3	565.5	520.3	486.4	467.5	467.5	475.1	478.8
47.5°	8464.3	6021.2	1304.5	618.3	535.4	490.1	448.7	433.6	429.8	429.8	422.3
50°	9026.1	6285.1	1138.6	580.6	497.7	456.2	422.3	403.4	388.3	380.8	377.0
52.5°	10123.3	7107.0	1010.4	535.4	456.2	422.3	392.1	377.0	358.2	339.3	335.6
54°	11186.5	7955.3	1002.9	497.7	422.3	399.7	373.3	365.7	343.1	316.7	309.2
55°	11665.3	8449.3	1029.3	467.5	399.7	384.6	361.9	354.4	331.8	301.6	297.9
57.5°	12061.2	8641.5	1014.2	388.3	361.9	358.2	339.3	328.0	301.6	260.2	252.6
60°	9708.5	6533.9	727.7	343.1	331.8	324.2	309.2	301.6	267.7	222.4	218.7
62.5°	6134.3	3759.0	463.7	301.6	290.3	279.0	260.2	252.6	222.4	177.2	165.9
65°	2612.8	1557.1	312.9	267.7	248.8	230.0	214.9	203.6	177.2	132.0	128.2
67.5°	678.7	554.2	260.2	233.8	207.4	181.0	169.7	150.8	120.6	90.5	86.7
70°	305.4	279.0	218.7	196.1	165.9	139.5	124.4	105.6	79.2	60.3	56.6
72.5°	181.0	177.2	165.9	147.0	124.4	105.6	90.5	71.6	52.8	33.9	33.9
75°	113.1	109.3	113.1	101.8	86.7	79.2	67.9	49.0	30.2	15.1	15.1
77.5°	67.9	67.9	67.9	64.1	60.3	60.3	49.0	30.2	15.1	3.8	3.8
80°	52.8	52.8	56.6	52.8	52.8	52.8	41.5	22.6	7.5	0.0	0.0
82.5°	52.8	56.6	64.1	60.3	52.8	45.2	37.7	22.6	7.5	0.0	0.0
85°	15.1	11.3	18.9	26.4	37.7	33.9	26.4	18.9	7.5	0.0	0.0
87.5°	7.5	7.5	7.5	7.5	3.8	3.8	3.8	3.8	3.8	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)