

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: P648648

Luminaire Tested: **GALN-SA9B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23620.8 lumens  
Efficiency: N/A  
Efficacy: 64.9 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

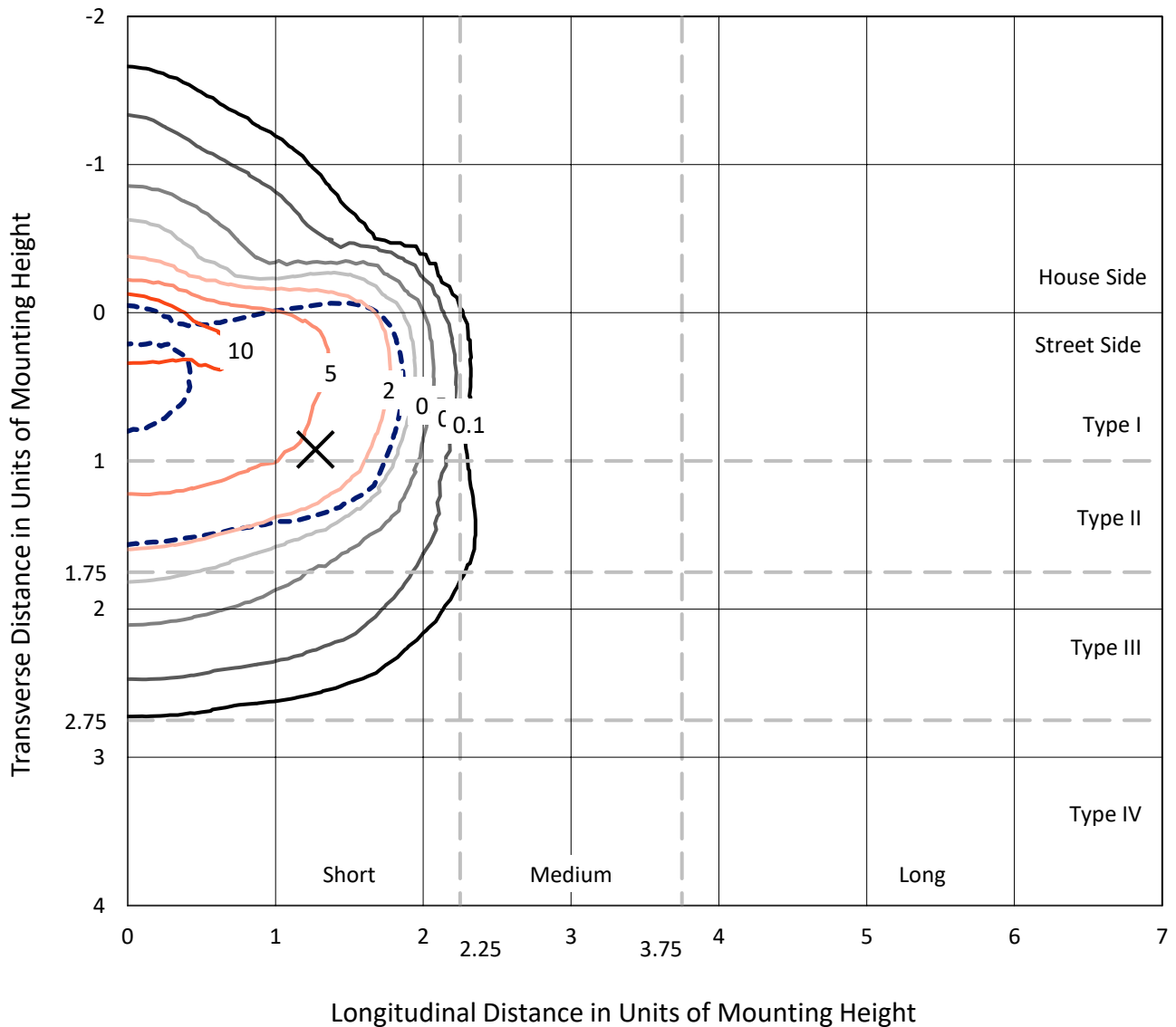
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

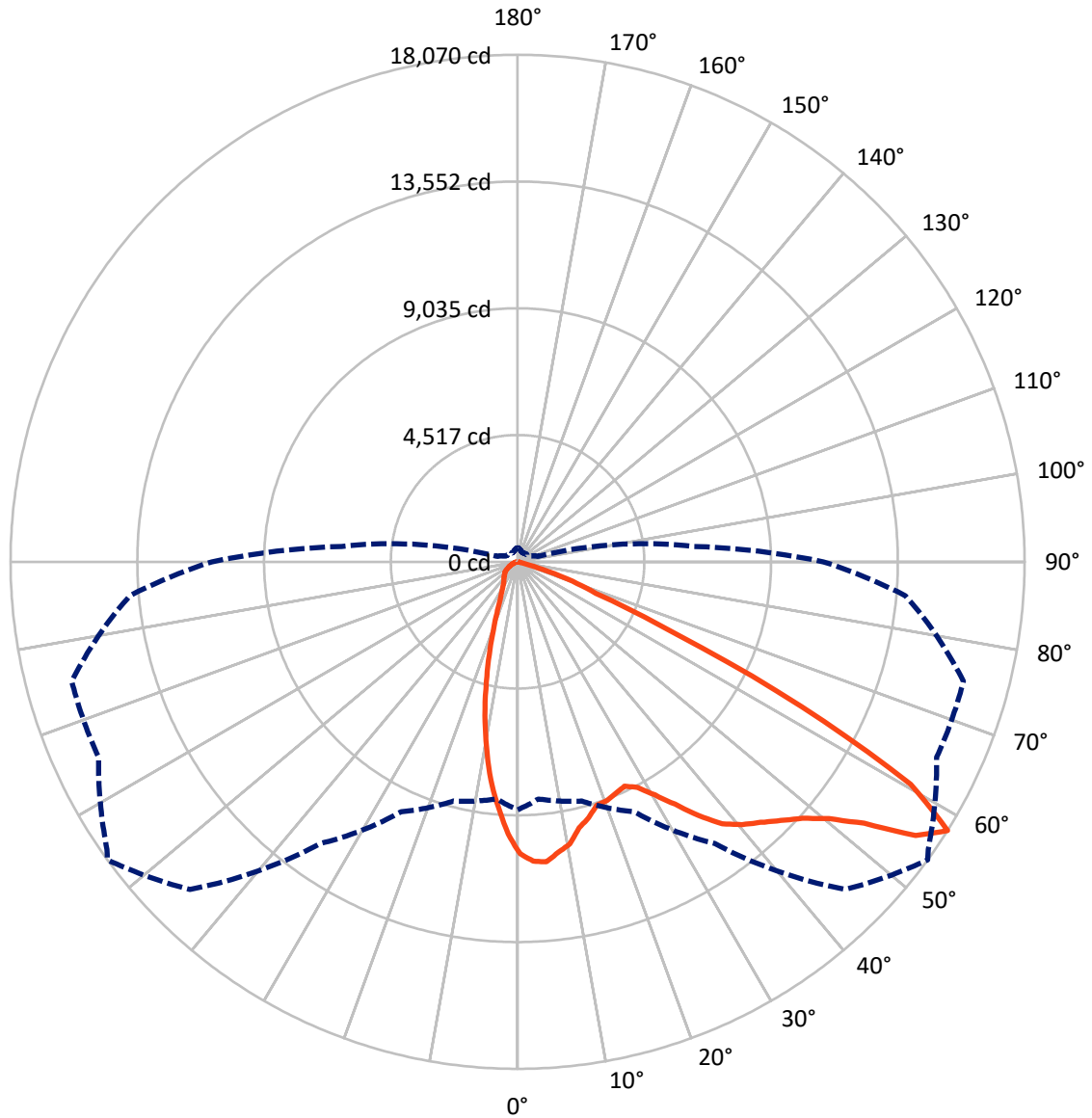
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3338.0	0.0	3338.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	20282.7	0.0	20282.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	23620.8	0.0	23620.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	870.7	3.7
10°-20°	1859.0	7.9
20°-30°	2463.5	10.4
30°-40°	3580.2	15.2
40°-50°	5309.0	22.5
50°-60°	6638.6	28.1
60°-70°	2618.6	11.1
70°-80°	260.7	1.1
80°-90°	20.3	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°	23620.8	100.0
0°-180°	23620.8	100.0



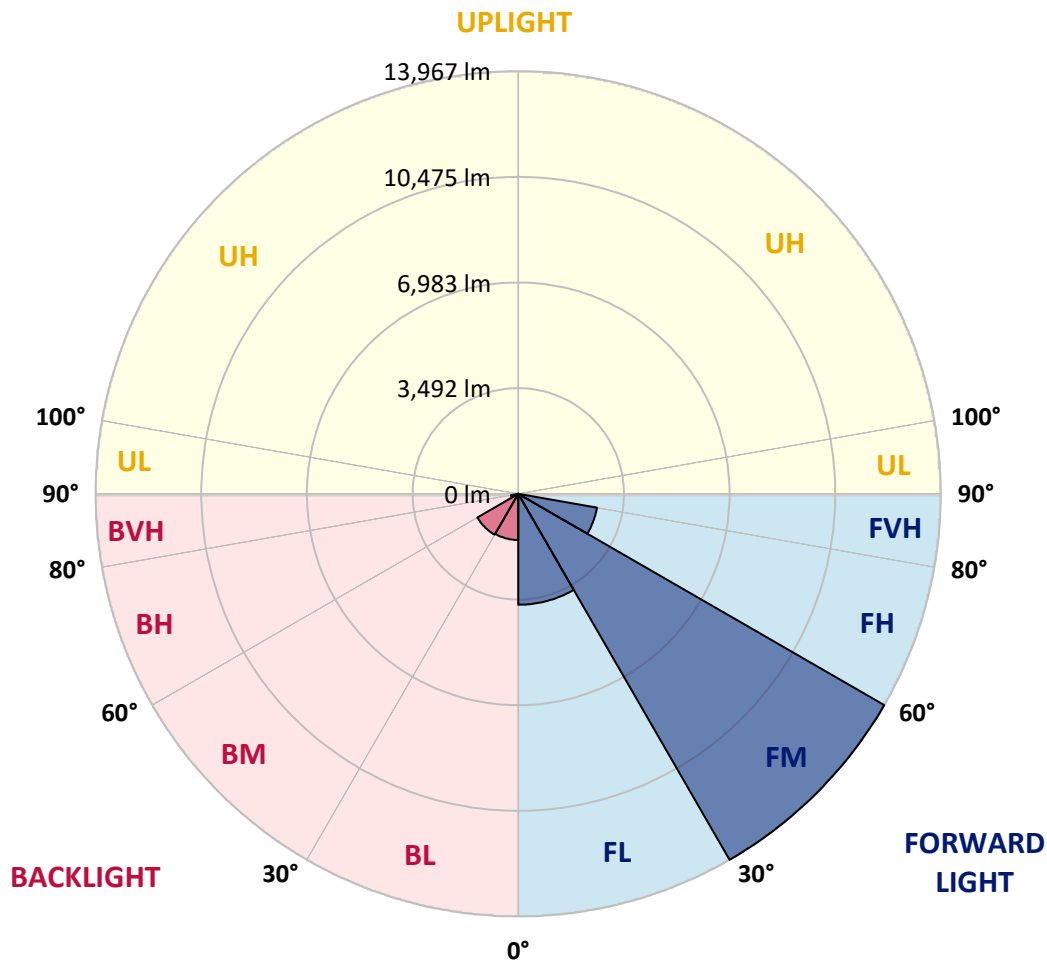
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3666.6	15.5			
FM (30°-60°)	13966.9	59.1			
FH (60°-80°)	2640.0	11.2			G2/5000
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	1526.6	6.5	B3/2500		
BM (30°-60°)	1560.9	6.6	B2/2500		
BH (60°-80°)	239.4	1.0	B1/500		G1/500
BVH (80°-90°)	11.1	0.0			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°	54°	55°	65°	75°	85°
0°	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3
2.5°	11011.4	10897.2	10906.0	10866.5	10813.8	10853.2	10682.0	10721.5	10717.1	10484.3	10330.6
5°	10734.7	10857.7	10730.3	10835.7	10734.7	10844.5	10739.1	10660.0	10532.6	10361.4	10075.9
7.5°	10264.7	10146.1	10181.3	10313.0	10335.0	10581.0	10449.2	10550.2	10497.5	10159.3	9768.4
10°	9320.4	9294.1	9469.7	9645.4	9860.6	10124.2	10225.2	10168.1	10128.6	10001.2	9478.5
12.5°	8595.6	8670.3	8665.9	8955.8	9320.4	9469.7	9733.2	9724.5	9944.1	9706.9	9206.2
15°	7906.0	7945.6	8130.0	8310.1	8714.2	9140.3	9465.3	9509.2	9772.8	9605.8	8995.3
17.5°	7484.4	7427.3	7572.2	7787.5	8200.4	8758.2	9118.3	9223.7	9583.9	9548.8	8753.8
20°	7067.1	7067.1	7185.7	7440.5	7818.3	8446.3	9087.6	9056.8	9583.9	9482.9	8494.6
22.5°	6926.6	6996.9	7027.6	7220.9	7668.9	8209.1	8955.8	9012.9	9658.6	9452.1	8380.4
25°	7119.8	7027.6	7036.4	7190.1	7611.8	8095.0	8859.2	8986.6	9794.7	9605.8	8288.2
27.5°	7150.6	7242.8	7269.2	7374.6	7655.7	8130.0	9100.7	9359.9	10133.0	9966.0	8314.5
30°	7418.5	7510.8	7506.4	7686.5	7879.7	8415.6	9641.0	9693.7	10831.3	10418.4	8477.1
32.5°	7743.6	7840.2	7871.0	8081.7	8235.5	8938.3	10299.8	10436.0	11503.4	11130.0	8903.1
35°	8147.7	8112.5	8253.1	8463.9	8793.3	9702.5	11103.6	11332.0	12228.0	12052.3	9342.4
37.5°	8652.8	8608.9	8745.0	9087.6	9535.6	10607.3	11845.9	11995.2	12755.1	12908.9	10154.9
40°	9008.5	9026.1	9439.0	9900.2	10374.5	11468.2	12315.9	12460.8	13124.1	13708.2	10769.9
42.5°	9601.5	9711.3	10207.6	10769.9	11266.1	12113.9	12698.0	12838.5	13295.3	14349.5	11600.0
45°	10462.4	10414.1	10963.1	11591.1	12140.2	12785.8	13150.4	13102.1	13396.4	14986.4	12122.6
47.5°	11569.2	11578.0	11942.6	12478.4	13049.4	13370.0	13655.5	13484.2	13607.2	15658.4	12821.0
50°	12324.7	12390.6	12684.8	13233.9	13519.4	14011.3	14375.9	14270.5	14230.9	16062.5	13260.3
52.5°	12518.0	12715.6	12873.7	13558.9	14226.6	15003.9	15469.6	15693.5	14990.8	16198.6	13818.1
55°	11059.7	11235.4	11793.2	12733.1	14494.4	16576.4	17217.6	17222.1	15983.5	16804.8	14208.9
57.5°	8841.6	8485.8	8828.4	9825.5	12254.4	16510.5	18069.8	17863.3	16479.7	16449.0	13870.8
60°	6114.1	6026.2	6048.1	6443.5	8481.5	13132.9	16102.0	16369.9	15175.2	14257.3	10980.6
62.5°	4844.7	4770.0	4673.3	4629.4	5266.3	8182.7	11358.4	11736.2	10611.7	9245.7	6509.3
65°	3794.9	3751.0	3764.2	3939.8	3935.4	4642.6	6210.7	6056.9	4849.0	3584.1	2046.8
67.5°	2560.7	2626.6	2679.3	3210.8	3483.1	3232.7	2999.9	2912.1	1576.8	663.2	452.4
70°	1440.6	1449.4	1506.6	2007.3	2644.1	2507.9	2068.8	2068.8	786.2	241.6	259.2
72.5°	786.2	759.8	707.1	865.3	1177.2	1194.7	922.4	803.7	232.8	158.1	144.9
75°	382.1	377.7	325.0	267.9	254.8	210.9	162.6	149.3	105.4	101.0	87.9
77.5°	79.1	74.7	39.5	39.5	43.9	48.3	61.5	61.5	74.7	74.7	61.5
80°	0.0	0.0	4.4	17.5	30.8	43.9	52.7	52.7	61.5	61.5	48.3
82.5°	0.0	0.0	4.4	13.2	26.4	39.5	48.3	52.7	61.5	65.9	52.7
85°	0.0	0.0	0.0	8.8	21.9	30.8	26.4	26.4	21.9	17.5	8.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3	10405.3
2.5°	10251.5	10242.7	10040.7	9926.5	9720.1	9540.0	9395.1	9289.6	9289.6	9223.7	9162.3
5°	9961.6	9886.9	9456.5	9179.8	8788.9	8499.0	8301.4	8147.7	7906.0	7972.0	7712.8
7.5°	9601.5	9412.6	8841.6	8420.0	7879.7	7466.8	7045.2	6671.9	6311.7	6149.1	6237.0
10°	9215.0	8885.6	8116.9	7449.3	6777.3	6021.8	5529.9	4932.5	4563.6	4541.6	4444.9
12.5°	8806.5	8433.1	7497.6	6575.2	5692.3	4783.2	4032.1	3474.2	3223.9	2947.2	2999.9
15°	8499.0	7945.6	6808.0	5696.8	4524.0	3606.0	2850.6	2420.1	2182.9	2117.1	2095.1
17.5°	8165.2	7572.2	6105.2	4761.2	3548.9	2595.8	2051.1	1844.7	1752.5	1752.5	1739.4
20°	7818.3	7150.6	5406.8	3891.5	2661.7	1937.0	1642.7	1576.8	1572.4	1568.0	1568.0
22.5°	7589.9	6667.5	4774.4	3092.1	2007.3	1550.5	1427.5	1401.1	1418.7	1471.4	1471.4
25°	7348.2	6201.9	4076.0	2385.0	1554.9	1330.9	1260.6	1278.2	1322.1	1370.4	1352.8
27.5°	7102.3	5898.8	3417.2	1871.1	1273.8	1163.9	1137.6	1177.2	1225.5	1269.4	1256.2
30°	7045.2	5573.8	2793.5	1418.7	1093.7	1014.6	1032.2	1067.3	1115.6	1133.2	1150.8
32.5°	7133.1	5319.0	2288.4	1163.9	953.1	931.1	931.1	948.8	979.5	1019.0	1005.8
35°	7383.4	5174.1	1809.6	1010.2	874.1	852.1	847.7	865.3	882.8	896.0	882.8
37.5°	7765.5	5059.9	1480.2	896.0	821.4	786.2	777.4	773.1	790.6	795.0	803.7
40°	8253.1	5121.4	1256.2	825.8	768.7	729.1	702.7	702.7	702.7	716.0	720.4
42.5°	8780.1	5204.8	1084.9	786.2	720.4	672.0	645.7	636.9	645.7	663.2	658.8
45°	9333.5	5367.3	975.1	724.7	676.4	614.9	579.8	571.0	593.0	628.1	623.7
47.5°	9851.9	5600.1	891.6	685.2	632.5	575.3	531.5	522.7	562.2	610.5	614.9
50°	10370.1	6004.2	860.9	654.4	601.7	535.9	496.3	487.6	531.5	593.0	606.1
52.5°	10967.5	6439.1	838.9	614.9	566.6	505.1	461.2	452.4	500.7	579.8	584.2
55°	11358.4	6808.0	821.4	544.7	500.7	456.8	421.6	417.3	470.0	540.3	557.8
57.5°	10901.6	6294.1	759.8	474.3	426.0	404.1	373.3	373.3	417.3	483.1	496.3
60°	8266.2	4141.9	540.3	382.1	360.2	347.0	333.8	333.8	368.9	417.3	421.6
62.5°	4840.3	2231.2	347.0	307.5	307.5	294.3	272.3	272.3	307.5	333.8	338.2
65°	1436.3	716.0	281.1	263.6	259.2	237.2	215.2	210.9	237.2	250.3	245.9
67.5°	412.9	329.4	232.8	219.6	215.2	180.1	166.9	162.6	166.9	158.1	153.7
70°	245.9	224.0	180.1	184.5	162.6	131.8	118.6	114.2	105.4	92.2	83.5
72.5°	136.2	136.2	131.8	140.5	114.2	87.9	74.7	61.5	48.3	39.5	35.2
75°	83.5	87.9	92.2	96.6	74.7	57.1	48.3	30.8	17.5	8.8	8.8
77.5°	57.1	61.5	65.9	70.3	61.5	52.7	39.5	21.9	4.4	0.0	0.0
80°	43.9	48.3	57.1	61.5	65.9	70.3	52.7	21.9	4.4	0.0	0.0
82.5°	48.3	52.7	65.9	61.5	61.5	61.5	48.3	21.9	4.4	0.0	0.0
85°	8.8	13.2	21.9	21.9	30.8	39.5	30.8	8.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)