

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: P646943

Luminaire Tested: **GALN-SA5C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646943
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-SA5C-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA 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: 16122 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

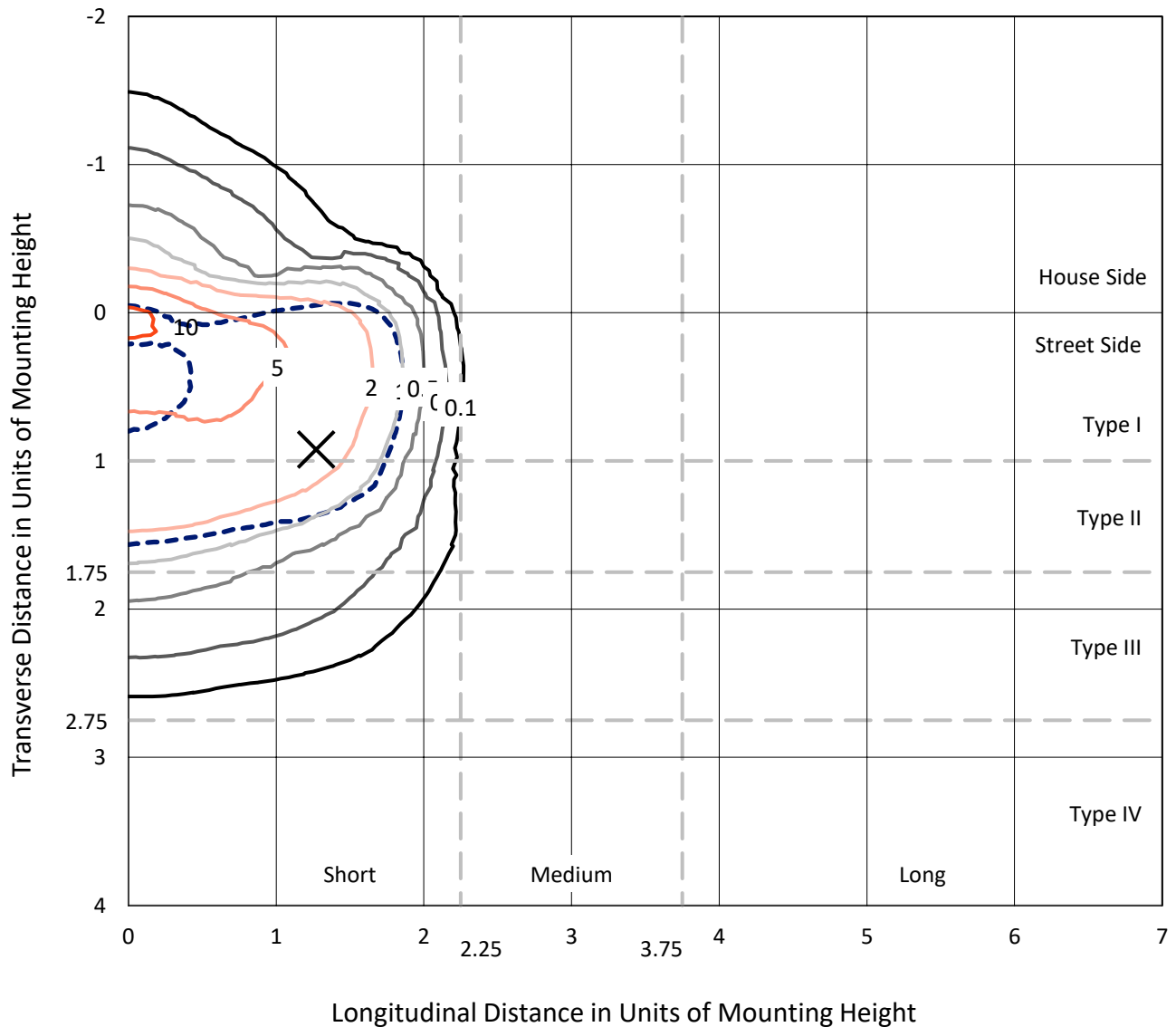
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

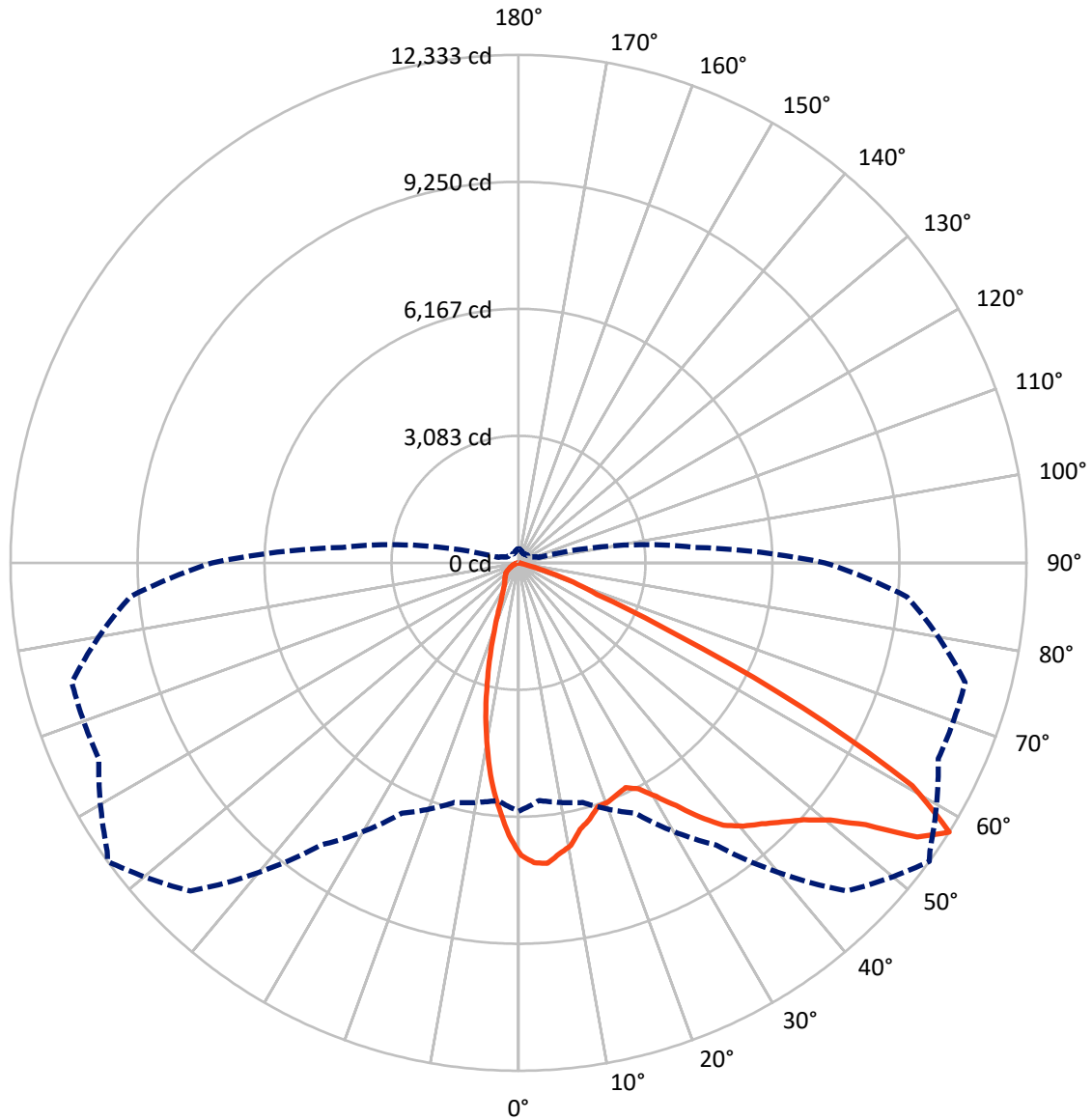
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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
House Side	Lumens	2278.3	0.0	2278.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13843.7	0.0	13843.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	16122.0	0.0	16122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	3.7
10°-20°	1268.8	7.9
20°-30°	1681.5	10.4
30°-40°	2443.6	15.2
40°-50°	3623.6	22.5
50°-60°	4531.1	28.1
60°-70°	1787.3	11.1
70°-80°	178.0	1.1
80°-90°	13.8	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°	16122.0	100.0
0°-180°	16122.0	100.0

Coefficient of Utilization



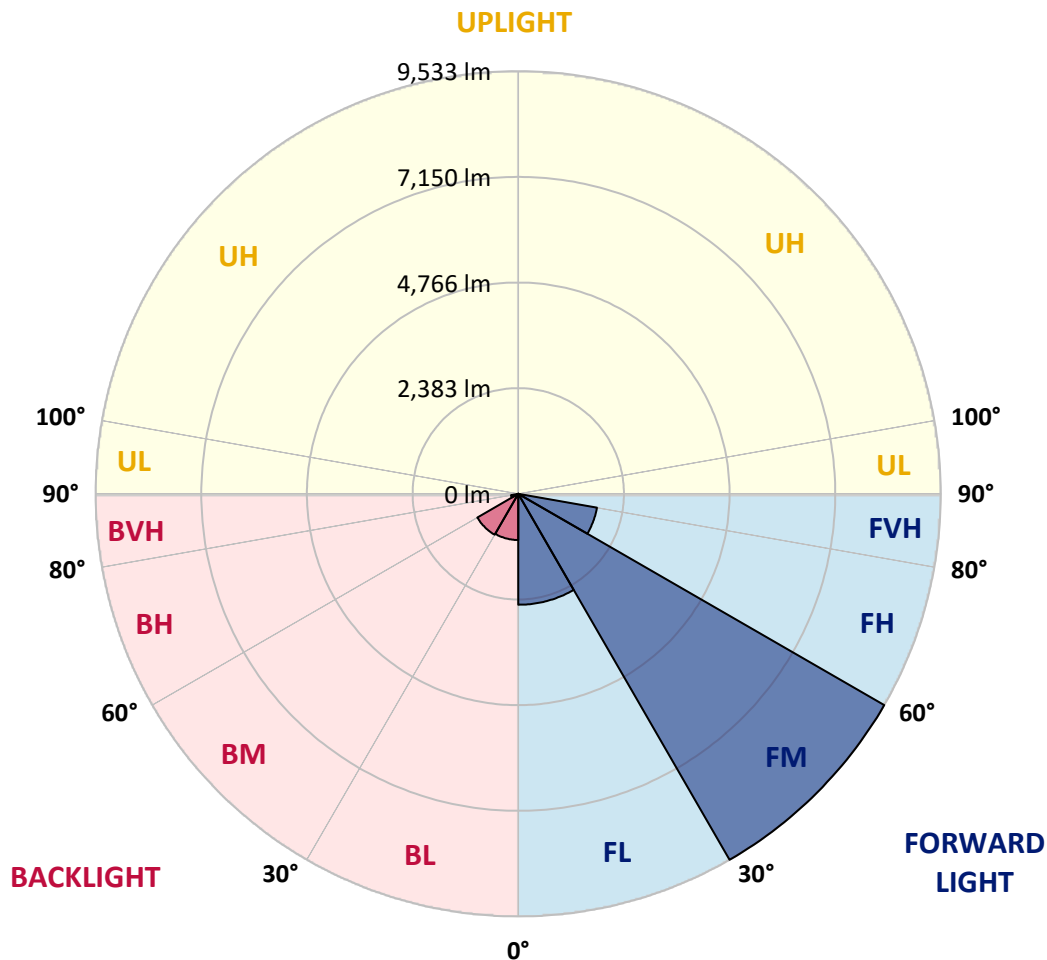
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2502.6	15.5			
FM (30°-60°)	9532.9	59.1			
FH (60°-80°)	1801.9	11.2			G2/5000
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	1042.0	6.5	B3/2500		
BM (30°-60°)	1065.4	6.6	B2/2500		
BH (60°-80°)	163.4	1.0	B1/500		G1/500
BVH (80°-90°)	7.6	0.0			G0/10
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°	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0
2.5°	7515.6	7437.7	7443.7	7416.7	7380.7	7407.7	7290.8	7317.8	7314.8	7155.9	7051.0
5°	7326.8	7410.7	7323.8	7395.7	7326.8	7401.7	7329.8	7275.8	7188.9	7072.0	6877.1
7.5°	7006.0	6925.1	6949.0	7039.0	7054.0	7221.8	7132.0	7200.9	7164.9	6934.1	6667.2
10°	6361.5	6343.5	6463.4	6583.3	6730.2	6910.1	6979.0	6940.0	6913.1	6826.1	6469.4
12.5°	5866.9	5917.8	5914.8	6112.6	6361.5	6463.4	6643.3	6637.3	6787.2	6625.3	6283.5
15°	5396.1	5423.1	5549.0	5672.0	5947.7	6238.6	6460.4	6490.4	6670.2	6556.4	6139.7
17.5°	5108.4	5069.4	5168.3	5315.2	5597.0	5977.7	6223.6	6295.6	6541.3	6517.4	5974.8
20°	4823.6	4823.6	4904.5	5078.4	5336.2	5764.9	6202.6	6181.6	6541.3	6472.4	5797.9
22.5°	4727.6	4775.6	4796.6	4928.5	5234.3	5603.0	6112.6	6151.6	6592.3	6451.4	5719.9
25°	4859.5	4796.6	4802.6	4907.5	5195.3	5525.1	6046.7	6133.6	6685.3	6556.4	5656.9
27.5°	4880.5	4943.5	4961.5	5033.4	5225.3	5549.0	6211.6	6388.4	6916.1	6802.2	5674.9
30°	5063.4	5126.4	5123.3	5246.3	5378.2	5743.9	6580.3	6616.3	7392.8	7111.0	5785.9
32.5°	5285.2	5351.2	5372.2	5516.1	5621.0	6100.7	7030.0	7123.0	7851.4	7596.6	6076.7
35°	5561.0	5537.1	5633.0	5776.9	6001.7	6622.3	7578.6	7734.5	8346.1	8226.1	6376.4
37.5°	5905.8	5875.8	5968.7	6202.6	6508.4	7239.9	8085.3	8187.2	8705.8	8810.7	6931.0
40°	6148.6	6160.6	6442.4	6757.2	7081.0	7827.4	8406.1	8504.9	8957.6	9356.3	7350.8
42.5°	6553.3	6628.3	6967.1	7350.8	7689.5	8268.1	8666.8	8762.8	9074.6	9794.0	7917.4
45°	7140.9	7107.9	7482.7	7911.4	8286.1	8726.8	8975.6	8942.6	9143.5	10228.7	8274.1
47.5°	7896.4	7902.3	8151.2	8516.9	8906.6	9125.5	9320.4	9203.5	9287.4	10687.4	8750.8
50°	8412.0	8456.9	8657.9	9032.6	9227.4	9563.2	9812.0	9740.1	9713.1	10963.2	9050.5
52.5°	8543.9	8678.9	8786.7	9254.4	9710.1	10240.7	10558.5	10711.4	10231.7	11056.1	9431.3
55°	7548.6	7668.5	8049.2	8690.8	9893.0	11314.0	11751.7	11754.6	10909.2	11469.9	9698.1
57.5°	6034.7	5791.9	6025.7	6706.2	8364.1	11269.0	12333.2	12192.3	11248.0	11227.0	9467.3
60°	4173.0	4113.1	4128.1	4397.9	5788.9	8963.6	10990.2	11173.0	10357.6	9731.0	7494.6
62.5°	3306.6	3255.7	3189.7	3159.7	3594.4	5585.1	7752.5	8010.3	7242.8	6310.5	4442.8
65°	2590.2	2560.2	2569.2	2689.1	2686.1	3168.7	4239.0	4134.1	3309.7	2446.2	1397.0
67.5°	1747.7	1792.8	1828.7	2191.5	2377.3	2206.4	2047.5	1987.6	1076.2	452.7	308.8
70°	983.3	989.3	1028.2	1370.0	1804.7	1711.8	1412.0	1412.0	536.6	164.9	176.9
72.5°	536.6	518.7	482.6	590.6	803.4	815.4	629.5	548.6	158.9	107.9	98.9
75°	260.8	257.8	221.8	182.9	173.9	143.9	111.0	101.9	72.0	69.0	60.0
77.5°	53.9	51.0	27.0	27.0	30.0	33.0	42.0	42.0	51.0	51.0	42.0
80°	0.0	0.0	3.0	12.0	21.0	30.0	35.9	35.9	42.0	42.0	33.0
82.5°	0.0	0.0	3.0	9.0	18.0	27.0	33.0	35.9	42.0	44.9	35.9
85°	0.0	0.0	0.0	6.0	15.0	21.0	18.0	18.0	15.0	12.0	6.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0	7102.0
2.5°	6997.0	6991.0	6853.1	6775.1	6634.3	6511.3	6412.5	6340.5	6340.5	6295.6	6253.6
5°	6799.2	6748.2	6454.4	6265.6	5998.7	5800.9	5665.9	5561.0	5396.1	5441.1	5264.3
7.5°	6553.3	6424.4	6034.7	5746.9	5378.2	5096.4	4808.6	4553.8	4307.9	4197.0	4256.9
10°	6289.5	6064.6	5540.0	5084.4	4625.7	4110.0	3774.3	3366.6	3114.8	3099.8	3033.8
12.5°	6010.7	5755.9	5117.4	4487.8	3885.2	3264.6	2752.0	2371.3	2200.5	2011.6	2047.5
15°	5800.9	5423.1	4646.7	3888.2	3087.8	2461.3	1945.6	1651.8	1490.0	1444.9	1430.0
17.5°	5573.0	5168.3	4167.0	3249.7	2422.3	1771.8	1400.0	1259.1	1196.1	1196.1	1187.2
20°	5336.2	4880.5	3690.4	2656.1	1816.7	1322.1	1121.2	1076.2	1073.3	1070.2	1070.2
22.5°	5180.3	4550.8	3258.7	2110.5	1370.0	1058.2	974.3	956.4	968.3	1004.3	1004.3
25°	5015.4	4233.0	2782.0	1627.9	1061.3	908.4	860.4	872.3	902.3	935.4	923.3
27.5°	4847.6	4026.1	2332.3	1277.1	869.4	794.4	776.4	803.4	836.4	866.4	857.4
30°	4808.6	3804.3	1906.6	968.3	746.4	692.5	704.5	728.5	761.5	773.4	785.4
32.5°	4868.5	3630.4	1561.9	794.4	650.5	635.6	635.6	647.5	668.5	695.5	686.5
35°	5039.4	3531.5	1235.1	689.5	596.6	581.6	578.6	590.6	602.6	611.6	602.6
37.5°	5300.2	3453.6	1010.3	611.6	560.6	536.6	530.6	527.6	539.6	542.6	548.6
40°	5633.0	3495.5	857.4	563.6	524.6	497.7	479.7	479.7	479.7	488.7	491.6
42.5°	5992.8	3552.5	740.5	536.6	491.6	458.7	440.7	434.7	440.7	452.7	449.7
45°	6370.5	3663.4	665.6	494.6	461.7	419.7	395.7	389.7	404.7	428.7	425.7
47.5°	6724.2	3822.3	608.5	467.7	431.7	392.8	362.8	356.7	383.7	416.7	419.7
50°	7077.9	4098.1	587.6	446.7	410.7	365.7	338.7	332.8	362.8	404.7	413.7
52.5°	7485.6	4394.9	572.6	419.7	386.7	344.8	314.8	308.8	341.8	395.7	398.7
55°	7752.5	4646.7	560.6	371.8	341.8	311.8	287.8	284.8	320.8	368.7	380.7
57.5°	7440.7	4295.9	518.7	323.8	290.8	275.8	254.8	254.8	284.8	329.8	338.7
60°	5642.0	2827.0	368.7	260.8	245.9	236.9	227.9	227.9	251.8	284.8	287.8
62.5°	3303.6	1522.9	236.9	209.8	209.8	200.8	185.9	185.9	209.8	227.9	230.8
65°	980.3	488.7	191.8	179.9	176.9	161.8	146.9	143.9	161.8	170.9	167.9
67.5°	281.8	224.9	158.9	149.9	146.9	122.9	113.9	111.0	113.9	107.9	104.9
70°	167.9	152.9	122.9	125.9	111.0	90.0	81.0	77.9	72.0	63.0	56.9
72.5°	92.9	92.9	90.0	95.9	77.9	60.0	51.0	42.0	33.0	27.0	24.0
75°	56.9	60.0	63.0	65.9	51.0	39.0	33.0	21.0	12.0	6.0	6.0
77.5°	39.0	42.0	44.9	48.0	42.0	35.9	27.0	15.0	3.0	0.0	0.0
80°	30.0	33.0	39.0	42.0	44.9	48.0	35.9	15.0	3.0	0.0	0.0
82.5°	33.0	35.9	44.9	42.0	42.0	42.0	33.0	15.0	3.0	0.0	0.0
85°	6.0	9.0	15.0	15.0	21.0	27.0	21.0	6.0	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)