

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: P646966

Luminaire Tested: **GALN-SA5C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646966
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-SA5C-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 16462.6 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

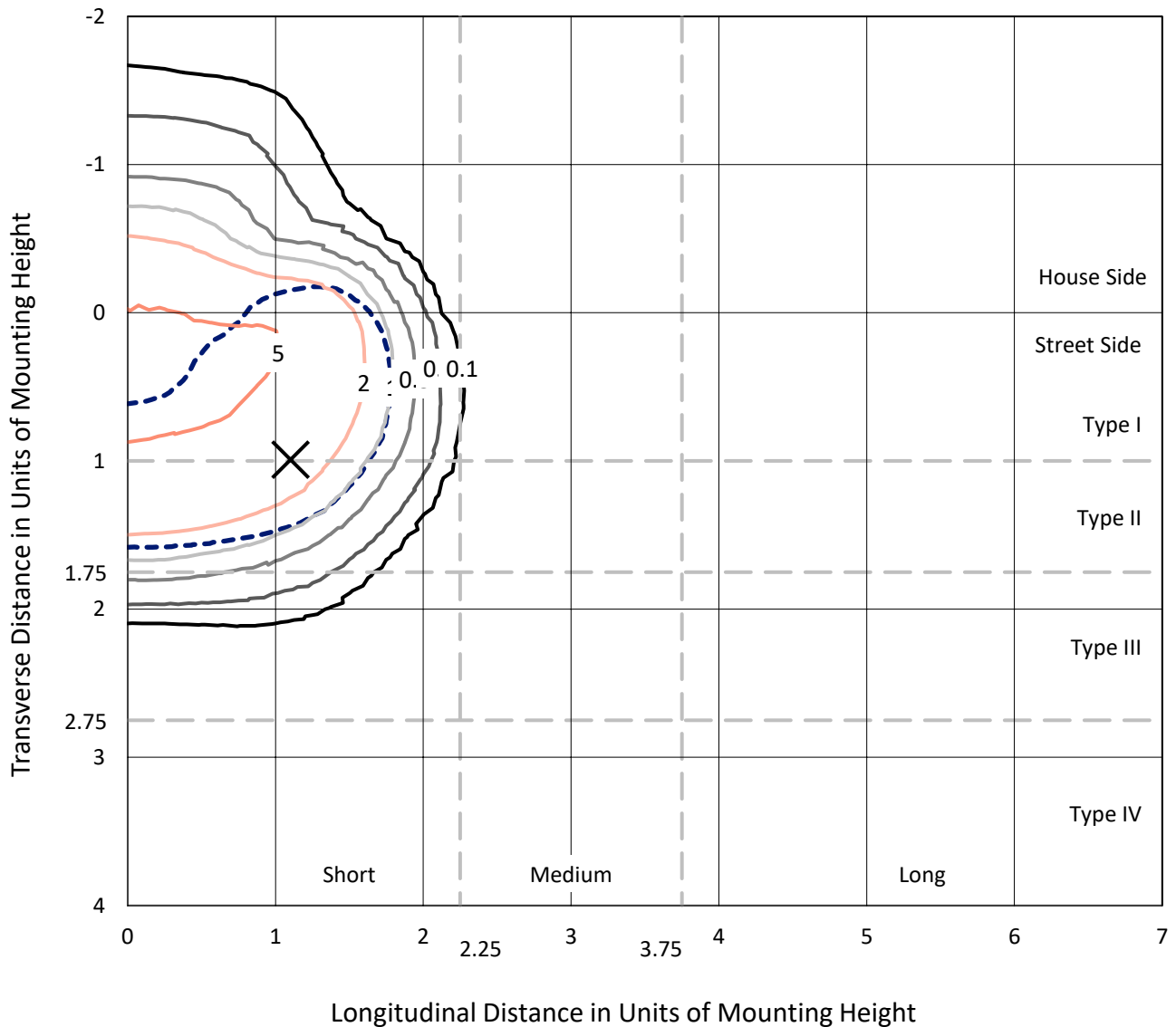
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

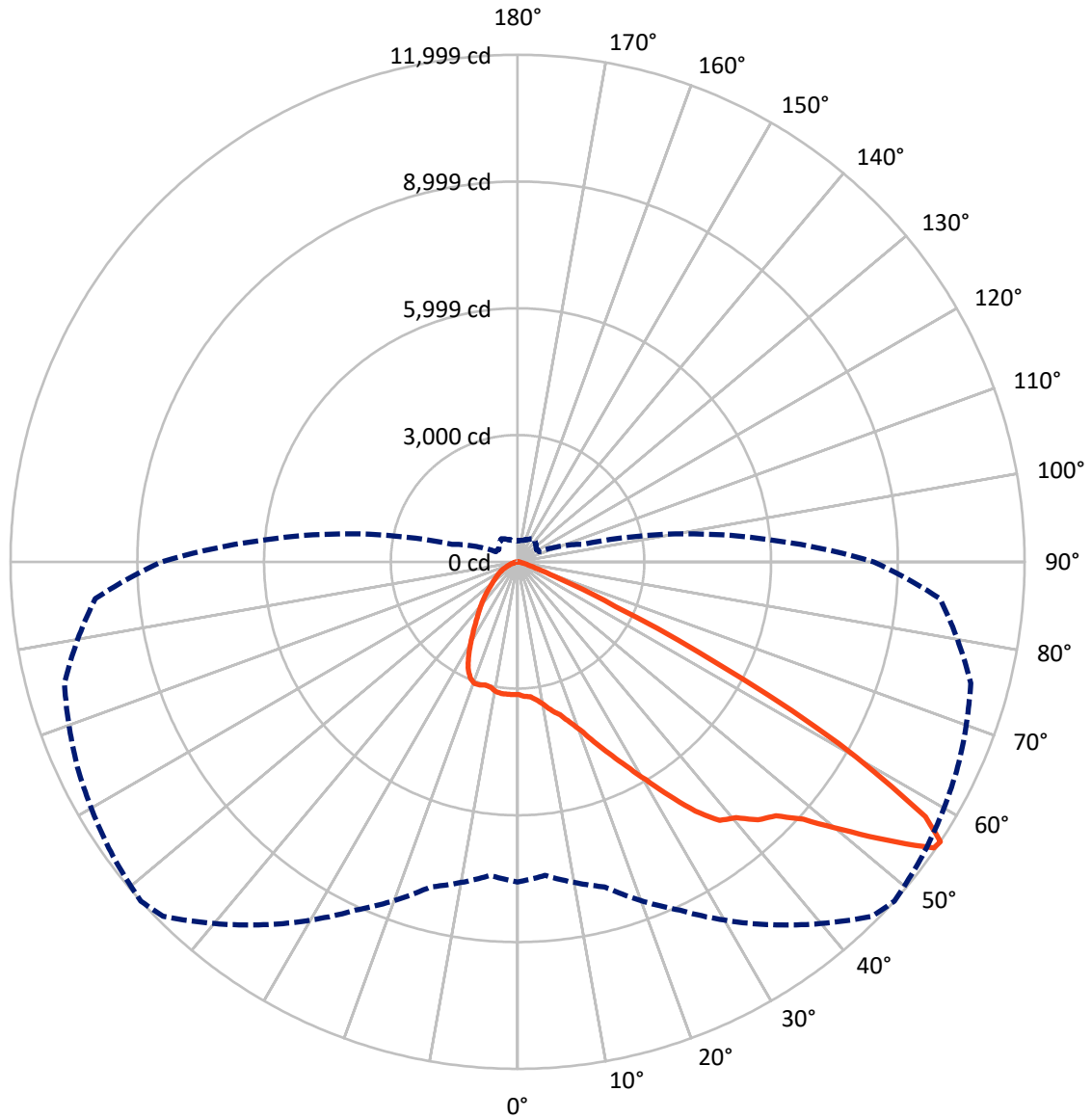
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	3580.3	0.0	3580.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12882.3	0.0	12882.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	16462.6	0.0	16462.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.3	1.9
10°-20°	978.9	5.9
20°-30°	1775.5	10.8
30°-40°	2788.9	16.9
40°-50°	4068.5	24.7
50°-60°	4901.8	29.8
60°-70°	1435.2	8.7
70°-80°	182.1	1.1
80°-90°	25.5	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°	16462.6	100.0
0°-180°	16462.6	100.0

Coefficient of Utilization



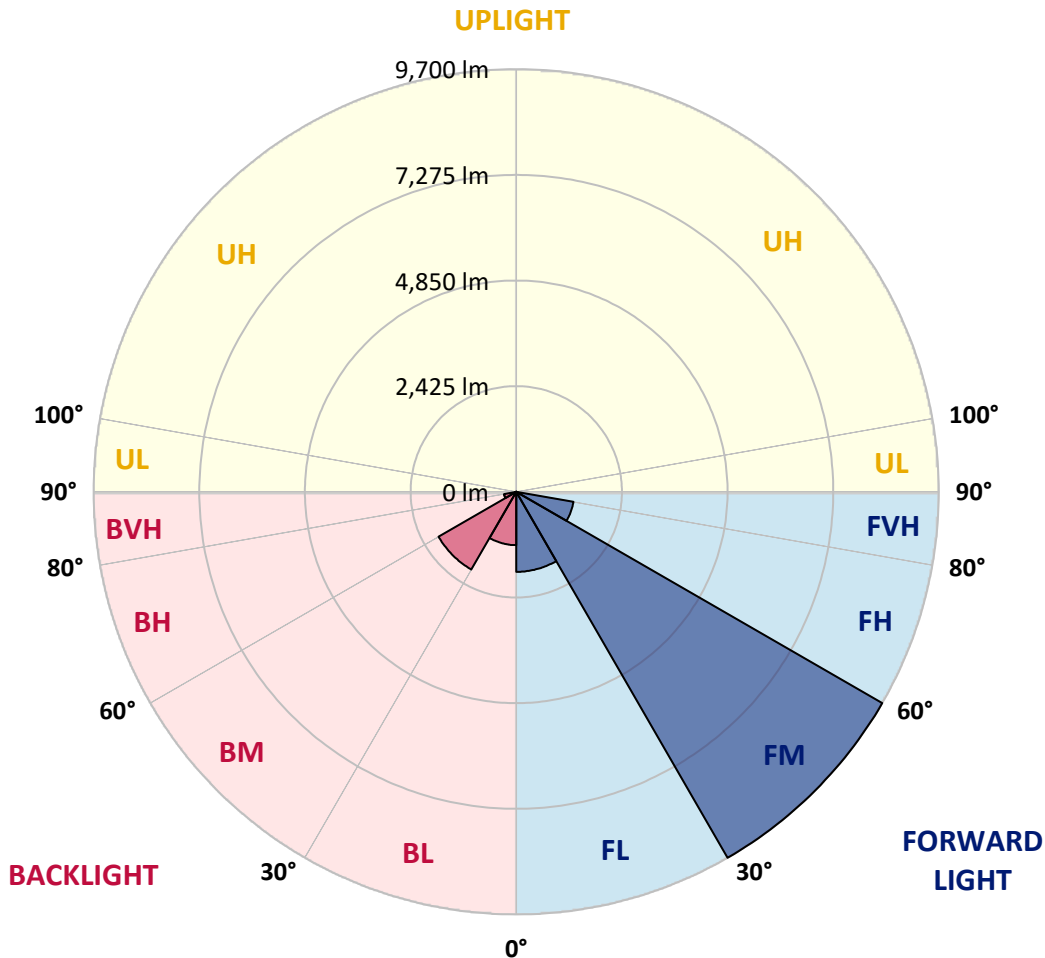
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.9	11.2			
FM (30°-60°)	9699.8	58.9			
FH (60°-80°)	1332.8	8.1			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	1223.7	7.4	B3/2500		
BM (30°-60°)	2059.4	12.5	B2/2500		
BH (60°-80°)	284.5	1.7	B1/500		G1/500
BVH (80°-90°)	12.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4
2.5°	3201.3	3186.3	3186.3	3162.4	3189.3	3177.3	3186.3	3156.4	3186.3	3141.4	3177.3
5°	3216.3	3219.3	3207.3	3222.3	3222.3	3240.3	3210.3	3237.3	3252.3	3219.3	3204.3
7.5°	3294.2	3300.3	3297.2	3285.2	3309.2	3306.2	3303.2	3282.3	3288.2	3276.2	3258.3
10°	3447.1	3444.1	3459.1	3429.1	3411.1	3432.1	3438.1	3405.1	3381.2	3372.1	3315.2
12.5°	3668.9	3633.0	3612.0	3582.0	3591.0	3561.0	3615.0	3558.0	3546.1	3492.1	3435.1
15°	3848.8	3842.8	3845.8	3797.8	3743.8	3755.8	3755.8	3725.9	3707.9	3642.0	3561.0
17.5°	4217.5	4091.6	4118.5	4058.6	4013.7	4010.6	3983.7	3989.6	3941.7	3803.8	3680.9
20°	4505.2	4451.3	4409.3	4307.4	4238.5	4259.4	4247.5	4217.5	4202.4	4022.6	3848.8
22.5°	4763.0	4781.0	4712.0	4685.1	4589.2	4598.2	4622.1	4595.1	4481.3	4295.4	4037.6
25°	5125.7	5104.7	5011.8	4978.8	4888.9	4921.9	5014.8	4993.8	4921.9	4586.1	4184.5
27.5°	5554.4	5482.4	5500.4	5350.5	5263.6	5356.5	5467.4	5572.3	5368.5	4927.9	4358.3
30°	5857.1	5782.1	5776.1	5770.2	5749.2	5857.1	5986.0	6081.9	5917.1	5269.6	4646.1
32.5°	6006.9	6025.0	6075.9	6057.9	6240.7	6462.6	6597.5	6735.4	6528.5	5827.1	5026.8
35°	6405.6	6291.7	6405.6	6417.6	6606.5	7077.1	7247.9	7577.6	7526.7	6615.4	5491.4
37.5°	6639.4	6630.4	6645.4	6759.3	6942.2	7523.7	7766.5	8021.3	7925.4	7089.0	6069.9
40°	7026.1	7050.1	7047.1	7134.0	7334.8	7859.4	7958.3	8165.1	8174.1	7745.5	6921.2
42.5°	7646.5	7550.6	7487.7	7577.6	7859.4	8150.2	8348.0	8306.0	8602.7	8542.8	8015.3
45°	8204.1	8261.0	8168.2	8318.0	8419.9	8575.8	8569.8	8659.7	9037.4	9322.2	8839.6
47.5°	8725.7	8761.6	8806.6	8908.5	9130.3	9154.3	9103.4	9064.4	9586.0	9879.7	9478.1
50°	9037.4	9070.4	9280.2	9463.0	9876.7	9930.6	9960.6	9861.7	10215.4	10248.4	10080.5
52.5°	8953.4	8989.5	9283.2	9885.7	10545.1	11039.8	10949.8	10781.9	10760.9	10889.9	10638.1
55°	8210.1	8177.1	8581.8	9520.0	10755.0	11942.0	11954.0	11777.1	11438.4	11351.5	10554.1
56°	7577.6	7448.8	7964.3	9097.4	10485.2	11864.0	11998.9	11810.1	11492.3	11102.7	10035.6
57.5°	6207.8	6330.7	6843.3	7781.5	9553.0	11303.5	11381.5	11336.5	11096.7	10443.3	8830.6
60°	3423.1	3638.9	4091.6	5239.6	6801.3	8674.7	8737.7	9103.4	9148.3	7997.2	6075.9
62.5°	1453.8	1429.8	1900.4	2745.7	3872.7	5236.6	5353.5	5728.2	5797.1	4610.1	3048.5
65°	590.5	623.5	860.3	1381.8	2047.3	2386.0	2550.9	2673.8	2901.6	1903.4	1124.1
67.5°	389.7	386.6	506.6	788.3	1103.1	1064.1	1064.1	1124.1	1040.1	776.3	485.6
70°	278.7	287.8	362.7	545.5	686.5	509.6	488.6	467.6	530.6	512.6	392.7
72.5°	182.8	194.8	242.8	326.7	356.7	278.7	278.7	335.8	437.6	413.7	320.7
75°	119.9	122.9	149.9	188.9	176.9	143.9	158.9	224.8	317.7	305.8	227.8
77.5°	81.0	83.9	101.9	122.9	98.9	81.0	86.9	113.9	155.9	155.9	119.9
80°	30.0	33.0	42.0	39.0	44.9	56.9	63.0	77.9	92.9	92.9	81.0
82.5°	0.0	3.0	9.0	21.0	33.0	44.9	51.0	60.0	68.9	77.9	74.9
85°	0.0	3.0	9.0	15.0	24.0	27.0	30.0	21.0	18.0	18.0	15.0
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	3.0	3.0
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°	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4	3144.4
2.5°	3144.4	3141.4	3141.4	3132.4	3150.3	3141.4	3147.3	3144.4	3105.4	3135.4	3114.4
5°	3177.3	3198.3	3165.4	3159.3	3135.4	3144.4	3144.4	3114.4	3141.4	3138.3	3132.4
7.5°	3261.3	3225.3	3189.3	3153.4	3147.3	3138.3	3105.4	3093.4	3114.4	3090.4	3126.4
10°	3297.2	3303.2	3249.3	3201.3	3156.4	3093.4	3048.5	3021.4	2988.5	3024.5	3045.5
12.5°	3462.1	3402.1	3309.2	3234.3	3081.4	3018.5	2973.5	2961.5	3018.5	3030.4	3009.5
15°	3519.0	3510.0	3390.2	3222.3	3063.4	2988.5	2997.5	2973.5	2979.5	2949.6	2955.5
17.5°	3635.9	3534.1	3393.1	3183.4	3060.4	3042.4	2988.5	2892.6	2838.6	2814.7	2835.6
20°	3764.8	3665.9	3462.1	3198.3	3087.4	3039.4	2862.6	2745.7	2634.8	2574.8	2577.9
22.5°	3878.7	3755.8	3432.1	3204.3	3111.4	2913.5	2700.7	2469.9	2332.0	2239.1	2242.1
25°	4016.6	3842.8	3444.1	3216.3	3048.5	2712.7	2406.9	2182.1	2017.3	1954.4	1975.4
27.5°	4094.5	3896.8	3510.0	3243.3	2883.6	2427.9	2098.2	1888.4	1792.5	1762.5	1759.6
30°	4328.3	4016.6	3591.0	3189.3	2607.8	2122.2	1816.5	1687.6	1594.7	1567.6	1573.7
32.5°	4676.1	4235.4	3695.9	3048.5	2326.1	1849.4	1633.7	1537.7	1450.7	1399.8	1393.8
35°	4966.8	4610.1	3806.8	2829.6	1999.3	1639.6	1504.8	1384.8	1253.0	1196.0	1181.0
37.5°	5521.3	5032.8	3782.8	2499.9	1687.6	1483.8	1366.9	1220.0	1106.1	1028.2	1019.2
40°	6258.8	5527.4	3665.9	2098.2	1456.8	1345.9	1220.0	1079.1	938.2	872.3	866.3
42.5°	7155.0	6132.8	3453.1	1690.6	1225.9	1208.0	1094.1	932.2	806.3	758.3	761.4
45°	7883.4	6651.4	3237.3	1357.9	1055.1	1073.1	974.2	821.3	734.4	695.4	695.4
47.5°	8530.9	7002.1	3003.5	1121.0	896.2	938.2	851.3	761.4	686.5	656.5	650.4
50°	9154.3	7358.8	2769.7	908.2	764.4	806.3	797.3	725.4	665.5	629.5	632.5
52.5°	9544.0	7415.8	2472.9	743.4	668.4	716.4	746.4	680.4	614.5	593.5	587.5
55°	9067.4	6681.4	1918.4	611.5	566.5	629.5	686.5	611.5	560.5	524.5	521.6
56°	8425.9	5974.0	1603.7	563.5	536.5	605.5	665.5	584.5	527.6	506.6	491.6
57.5°	7134.0	4888.9	1184.0	500.6	497.6	563.5	632.5	557.5	491.6	473.6	473.6
60°	4448.3	2751.7	716.4	419.6	431.7	500.6	569.6	497.6	437.6	437.6	446.6
62.5°	2026.3	1145.1	434.6	356.7	371.7	431.7	506.6	449.6	416.6	449.6	455.6
65°	689.4	494.6	314.8	284.8	293.8	356.7	434.6	455.6	452.7	473.6	485.6
67.5°	386.6	317.7	263.8	236.8	230.8	263.8	356.7	455.6	437.6	428.6	434.6
70°	326.7	269.7	233.8	209.8	200.8	212.8	275.8	344.7	308.7	299.7	293.8
72.5°	263.8	224.8	203.8	188.9	161.8	137.9	125.9	131.9	146.9	155.9	170.9
75°	185.8	170.9	170.9	152.8	116.9	86.9	68.9	56.9	39.0	27.0	30.0
77.5°	104.9	104.9	107.9	92.9	74.9	56.9	42.0	30.0	15.0	6.0	3.0
80°	72.0	77.9	83.9	74.9	63.0	51.0	35.9	21.0	9.0	0.0	0.0
82.5°	72.0	81.0	86.9	74.9	63.0	48.0	35.9	21.0	9.0	3.0	0.0
85°	15.0	18.0	21.0	24.0	35.9	35.9	27.0	18.0	9.0	3.0	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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)