

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: P529479

Luminaire Tested: **GALN-SA4C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529479
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-SA4C-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 11934 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

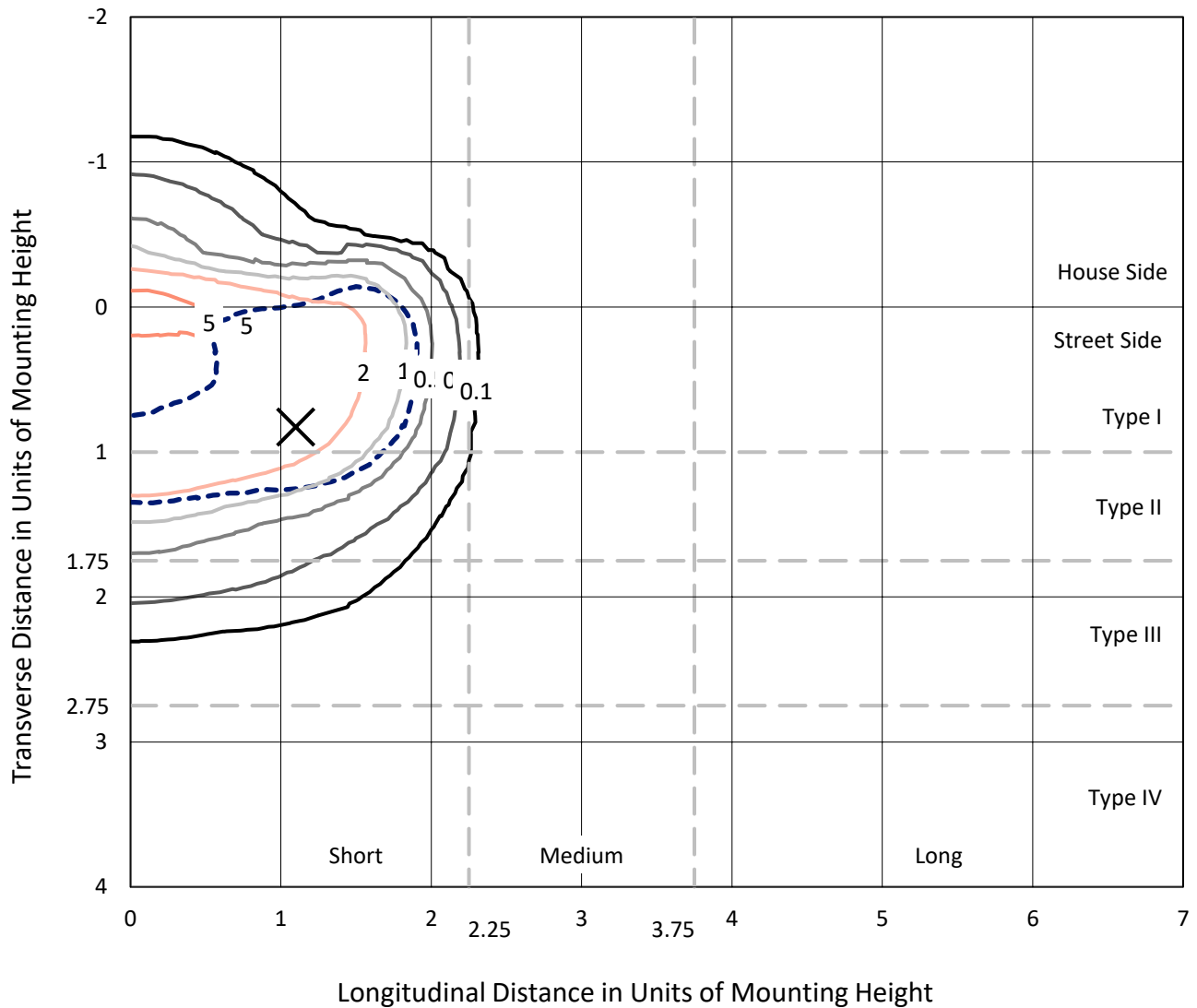
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

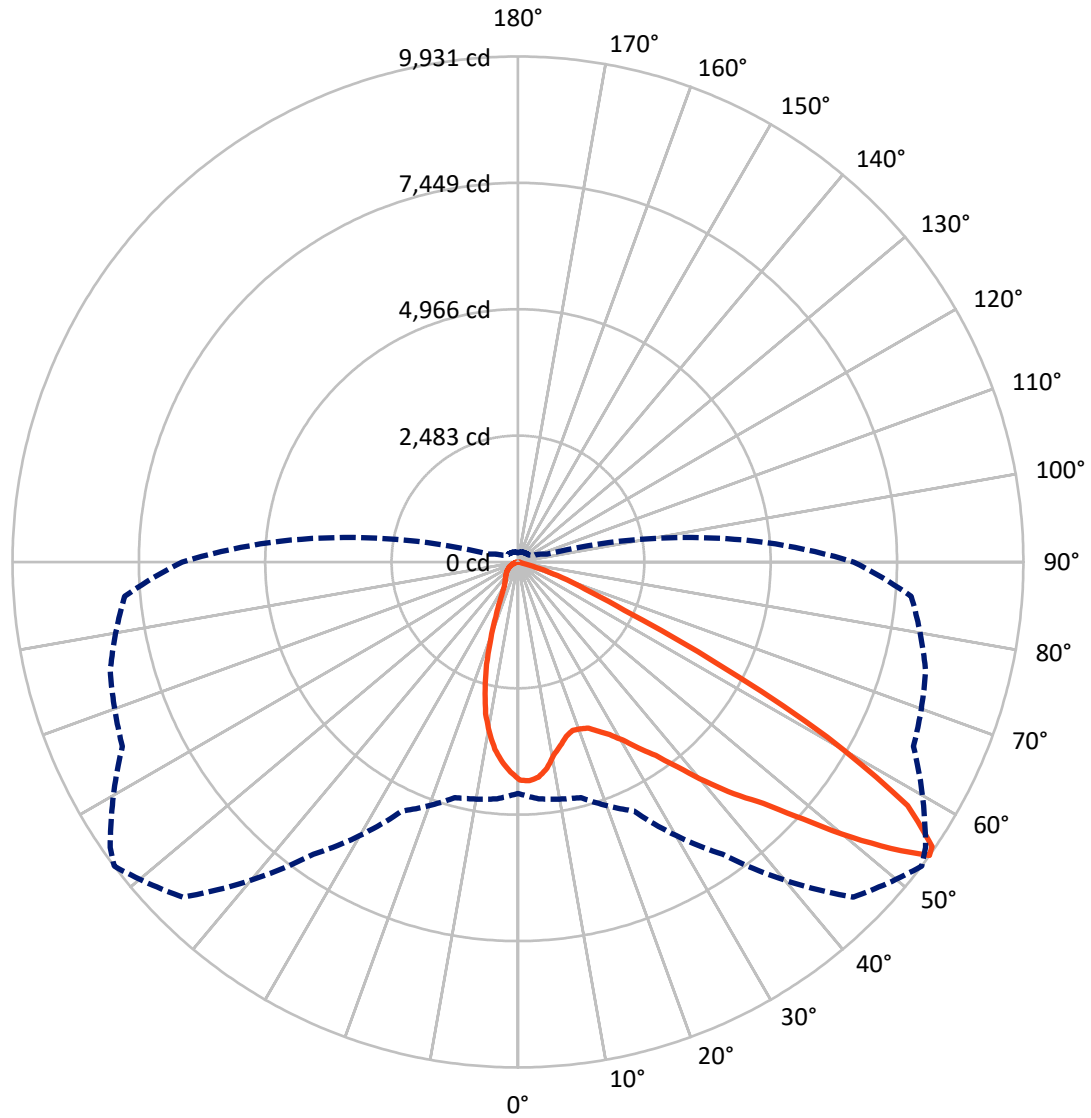
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
House Side	Lumens	1974.5	0.0	1974.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9959.5	0.0	9959.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	11934.0	0.0	11934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.8	3.1
10°-20°	843.2	7.1
20°-30°	1198.3	10.0
30°-40°	1849.4	15.5
40°-50°	2899.6	24.3
50°-60°	3368.3	28.2
60°-70°	1272.8	10.7
70°-80°	121.0	1.0
80°-90°	13.6	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°	11934.0	100.0
0°-180°	11934.0	100.0

Coefficient of Utilization

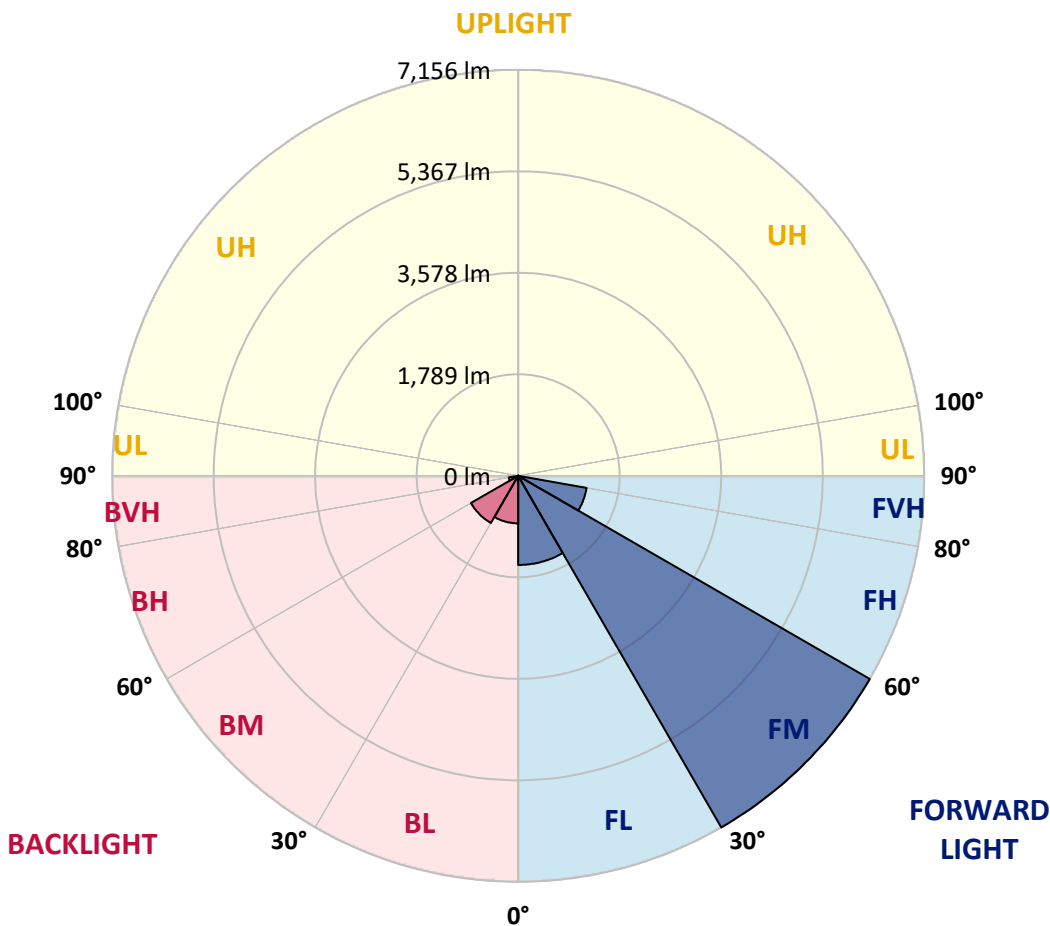


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.4	13.2			
FM (30°-60°)	7156.4	60.0			
FH (60°-80°)	1224.6	10.3			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	837.9	7.0	B2/1000		
BM (30°-60°)	960.9	8.1	B1/1000		
BH (60°-80°)	169.2	1.4	B1/500		G1/500
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5
2.5°	4264.3	4226.5	4264.3	4268.7	4295.4	4319.8	4304.3	4339.9	4319.8	4297.6	4290.9
5°	3919.6	3970.8	3973.0	4053.0	4035.3	4182.0	4246.5	4228.7	4337.6	4331.0	4315.4
7.5°	3610.6	3590.6	3617.3	3710.7	3828.5	3997.5	4090.8	4088.6	4244.2	4355.4	4344.3
10°	3323.8	3321.6	3377.2	3450.5	3550.6	3728.4	3857.4	3921.9	4164.2	4333.2	4357.6
12.5°	3130.4	3121.5	3181.5	3241.5	3399.4	3537.2	3701.8	3732.9	4010.8	4255.4	4295.4
15°	3003.7	3023.7	3028.1	3143.7	3243.8	3426.1	3555.0	3619.5	3939.7	4193.1	4346.5
17.5°	2981.4	3008.1	3010.3	3105.9	3212.6	3366.1	3479.4	3566.1	3879.6	4224.2	4348.7
20°	3025.9	3010.3	3023.7	3083.7	3188.2	3334.9	3499.4	3528.4	3859.6	4239.8	4373.2
22.5°	3152.6	3148.2	3114.8	3163.7	3237.1	3390.5	3546.1	3590.6	3917.4	4319.8	4393.2
25°	3292.7	3317.1	3286.0	3279.3	3330.5	3481.7	3688.4	3746.2	4110.9	4464.4	4455.5
27.5°	3555.0	3530.6	3530.6	3499.4	3486.1	3559.5	3841.8	3937.4	4326.5	4651.1	4526.6
30°	3806.3	3832.9	3812.9	3824.0	3735.1	3728.4	4059.7	4177.6	4708.9	4935.7	4677.8
32.5°	4204.2	4168.7	4202.0	4173.1	4055.3	3935.2	4355.4	4477.7	5171.4	5262.5	4904.6
35°	4535.5	4519.9	4662.2	4657.8	4466.6	4348.7	4668.9	4851.2	5493.7	5653.8	5171.4
37.5°	5006.8	4977.9	5140.2	5218.0	5046.9	4871.2	5118.0	5329.2	5793.9	5967.3	5444.8
40°	5491.5	5564.9	5782.8	5911.7	5729.4	5496.0	5667.2	5731.6	5994.0	6171.8	5631.6
42.5°	6105.1	6211.9	6434.2	6545.3	6529.8	6276.3	6225.2	6223.0	6138.5	6114.0	5769.4
45°	6694.3	6654.3	6996.7	7239.0	7434.7	7361.3	6763.2	6696.5	6367.5	6200.7	5805.0
47.5°	6952.2	6938.9	7172.3	7603.6	8270.6	8361.8	7545.8	7287.9	6754.3	6565.4	5998.4
50°	6618.7	6687.6	6918.9	7396.9	8419.6	9115.5	8506.3	8159.5	7205.7	7010.0	6456.4
52.5°	5529.3	5576.0	5796.1	6403.1	7912.7	9560.1	9426.7	9226.6	8034.9	7710.3	7254.6
54°	4546.6	4671.1	4791.2	5400.4	7010.0	9313.3	9931.4	9778.0	8575.2	8292.8	7757.0
55°	3959.7	4033.0	4119.7	4726.7	6385.3	8895.4	9873.6	9886.9	8937.6	8475.2	8095.0
57.5°	2892.5	2943.6	2854.7	3123.7	4384.3	7223.4	9031.0	9391.2	9426.7	8748.6	8301.7
60°	2209.9	2232.2	2132.1	2174.4	2725.7	4957.9	6985.6	7419.1	8504.1	7645.9	7032.2
62.5°	1714.2	1718.6	1716.4	1789.7	1878.7	2916.9	4368.8	4753.4	5862.8	5429.3	4775.6
65°	1262.8	1242.8	1278.4	1500.7	1603.0	1834.2	2301.1	2581.2	3186.0	2690.2	1923.1
67.5°	818.2	824.8	860.4	1116.1	1374.0	1407.3	1416.2	1394.0	1396.2	769.3	482.5
70°	491.3	502.5	491.3	631.4	982.7	1009.4	922.7	900.4	702.6	182.3	180.1
72.5°	291.3	275.7	246.8	271.2	409.1	489.1	440.2	438.0	275.7	106.7	106.7
75°	122.3	111.2	91.2	82.3	108.9	104.5	104.5	93.4	73.4	71.1	66.7
77.5°	24.5	24.5	17.8	20.0	26.7	31.1	37.8	37.8	44.5	44.5	42.2
80°	0.0	2.2	6.7	13.3	20.0	28.9	33.3	33.3	37.8	37.8	31.1
82.5°	0.0	2.2	6.7	13.3	17.8	26.7	33.3	33.3	37.8	40.0	33.3
85°	0.0	2.2	6.7	11.1	17.8	22.2	22.2	20.0	15.6	13.3	8.9
87.5°	0.0	0.0	2.2	4.4	2.2	4.4	4.4	4.4	4.4	4.4	4.4
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°	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5	4286.5
2.5°	4306.5	4304.3	4250.9	4164.2	4144.2	4070.8	4061.9	4017.5	4041.9	3959.7	3950.8
5°	4270.9	4244.2	4179.8	4124.2	3961.9	3846.3	3755.1	3644.0	3579.5	3590.6	3548.4
7.5°	4322.1	4253.1	4139.8	3946.3	3748.5	3546.1	3437.2	3210.4	3128.2	3005.9	2988.1
10°	4268.7	4217.6	4041.9	3721.8	3448.3	3157.1	2901.4	2650.2	2459.0	2376.7	2358.9
12.5°	4264.3	4175.3	3881.9	3526.1	3130.4	2712.4	2341.1	2027.6	1838.7	1731.9	1707.5
15°	4195.3	4088.6	3701.8	3223.8	2676.8	2156.6	1751.9	1449.6	1305.1	1242.8	1260.6
17.5°	4202.0	4041.9	3521.7	2903.6	2230.0	1583.0	1196.1	1040.5	1002.7	1018.3	1018.3
20°	4195.3	3937.4	3303.8	2534.5	1707.5	1098.3	878.2	822.6	847.1	896.0	884.9
22.5°	4159.8	3888.5	3103.7	2145.5	1256.2	813.7	704.8	707.0	744.8	804.8	818.2
25°	4186.4	3779.6	2850.3	1751.9	916.0	649.2	611.4	627.0	667.0	711.5	720.3
27.5°	4166.4	3701.8	2585.7	1360.6	669.2	558.0	555.8	573.6	591.4	624.7	624.7
30°	4188.7	3630.6	2325.6	1011.6	551.4	511.4	502.5	515.8	533.6	540.3	538.0
32.5°	4270.9	3577.3	2025.4	755.9	486.9	466.9	466.9	466.9	464.7	473.6	475.8
35°	4451.0	3586.2	1760.8	584.7	444.7	429.1	422.4	413.5	409.1	413.5	415.8
37.5°	4646.7	3581.7	1487.4	498.0	413.5	400.2	384.6	371.3	369.1	373.5	366.8
40°	4733.4	3624.0	1233.9	446.9	384.6	369.1	344.6	333.5	335.7	340.2	335.7
42.5°	4851.2	3637.3	1069.4	406.9	357.9	333.5	317.9	304.6	302.4	309.0	306.8
45°	4849.0	3561.7	896.0	384.6	333.5	306.8	286.8	275.7	275.7	280.1	282.4
47.5°	4991.3	3550.6	769.3	364.6	315.7	289.0	264.6	255.7	253.5	253.5	249.0
50°	5322.5	3706.2	671.4	342.4	293.5	269.0	249.0	237.9	229.0	224.6	222.3
52.5°	5969.5	4190.9	595.8	315.7	269.0	249.0	231.2	222.3	211.2	200.1	197.9
54°	6596.5	4691.1	591.4	293.5	249.0	235.7	220.1	215.7	202.3	186.8	182.3
55°	6878.8	4982.4	607.0	275.7	235.7	226.8	213.4	209.0	195.6	177.9	175.6
57.5°	7112.3	5095.8	598.1	229.0	213.4	211.2	200.1	193.4	177.9	153.4	149.0
60°	5725.0	3853.0	429.1	202.3	195.6	191.2	182.3	177.9	157.9	131.2	129.0
62.5°	3617.3	2216.6	273.5	177.9	171.2	164.5	153.4	149.0	131.2	104.5	97.8
65°	1540.7	918.2	184.5	157.9	146.7	135.6	126.7	120.1	104.5	77.8	75.6
67.5°	400.2	326.8	153.4	137.8	122.3	106.7	100.0	88.9	71.1	53.4	51.1
70°	180.1	164.5	129.0	115.6	97.8	82.3	73.4	62.3	46.7	35.6	33.3
72.5°	106.7	104.5	97.8	86.7	73.4	62.3	53.4	42.2	31.1	20.0	20.0
75°	66.7	64.5	66.7	60.0	51.1	46.7	40.0	28.9	17.8	8.9	8.9
77.5°	40.0	40.0	40.0	37.8	35.6	35.6	28.9	17.8	8.9	2.2	2.2
80°	31.1	31.1	33.3	31.1	31.1	31.1	24.5	13.3	4.4	0.0	0.0
82.5°	31.1	33.3	37.8	35.6	31.1	26.7	22.2	13.3	4.4	0.0	0.0
85°	8.9	6.7	11.1	15.6	22.2	20.0	15.6	11.1	4.4	0.0	0.0
87.5°	4.4	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2	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)