

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: P529869

Luminaire Tested: **GALN-SA5A-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529869
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-SA5A-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 13367 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

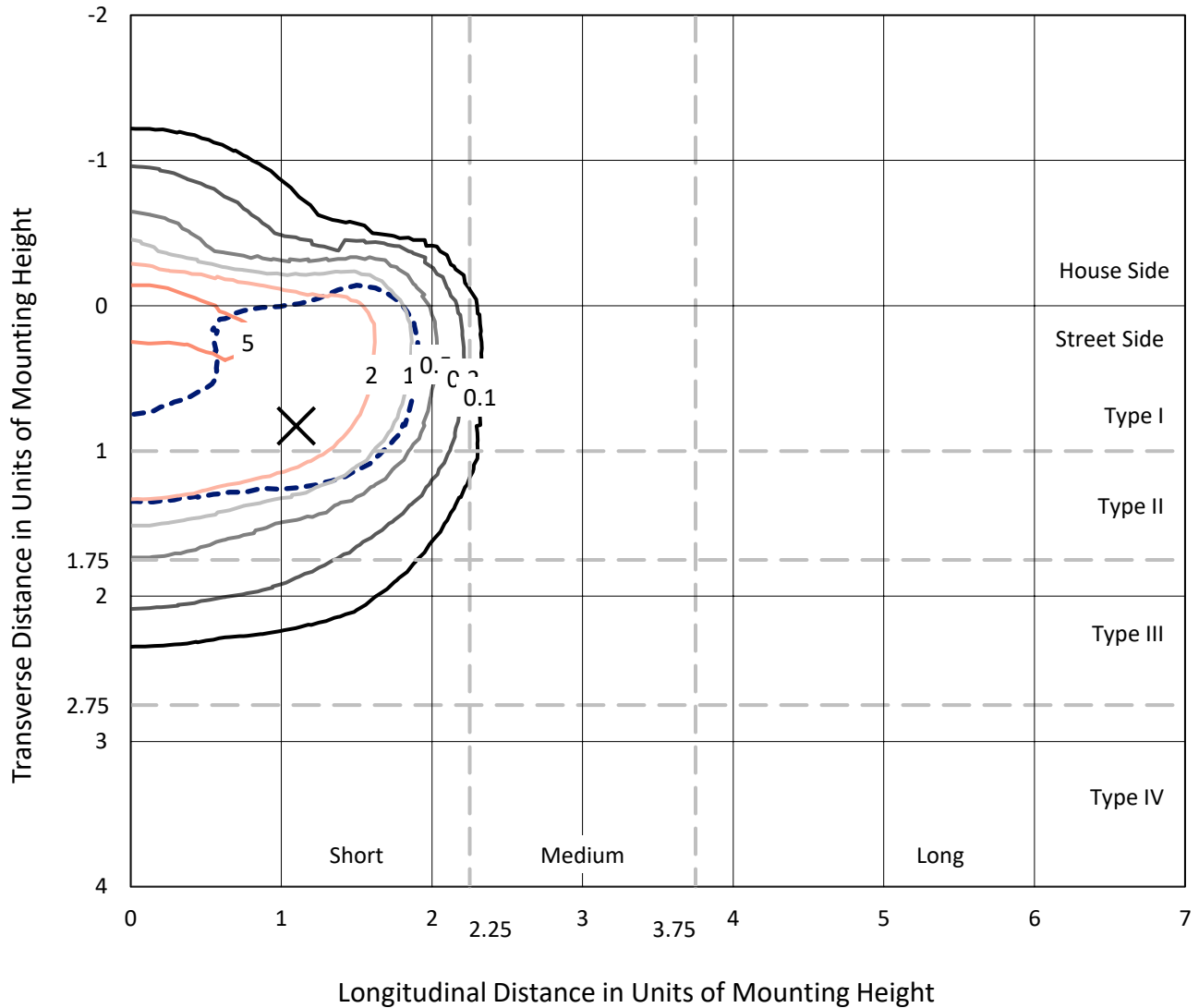
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

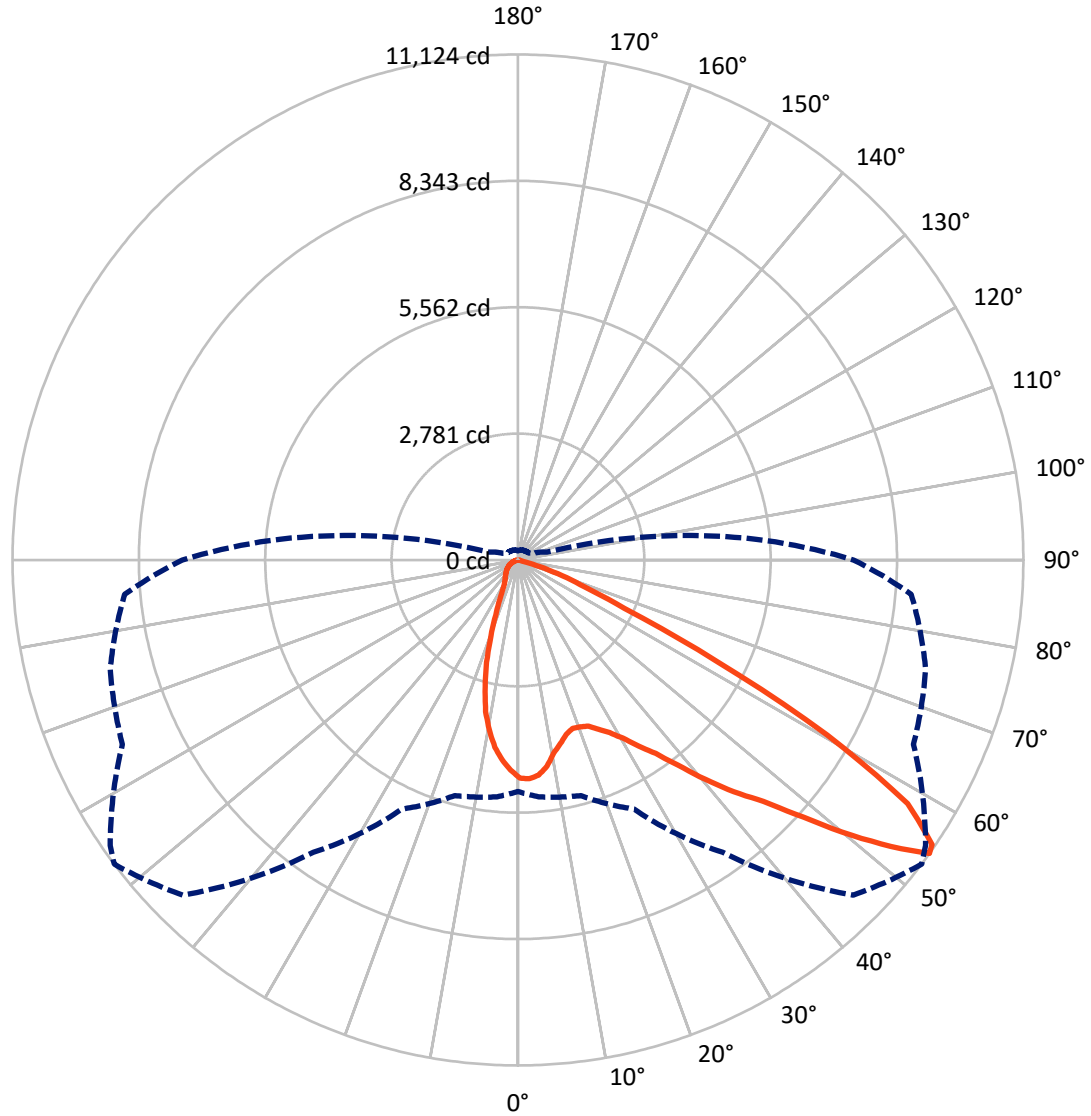
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2211.6	0.0	2211.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11155.4	0.0	11155.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	13367.0	0.0	13367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.9	3.1
10°-20°	944.4	7.1
20°-30°	1342.2	10.0
30°-40°	2071.4	15.5
40°-50°	3247.8	24.3
50°-60°	3772.8	28.2
60°-70°	1425.6	10.7
70°-80°	135.6	1.0
80°-90°	15.3	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°	13367.0	100.0
0°-180°	13367.0	100.0

Coefficient of Utilization



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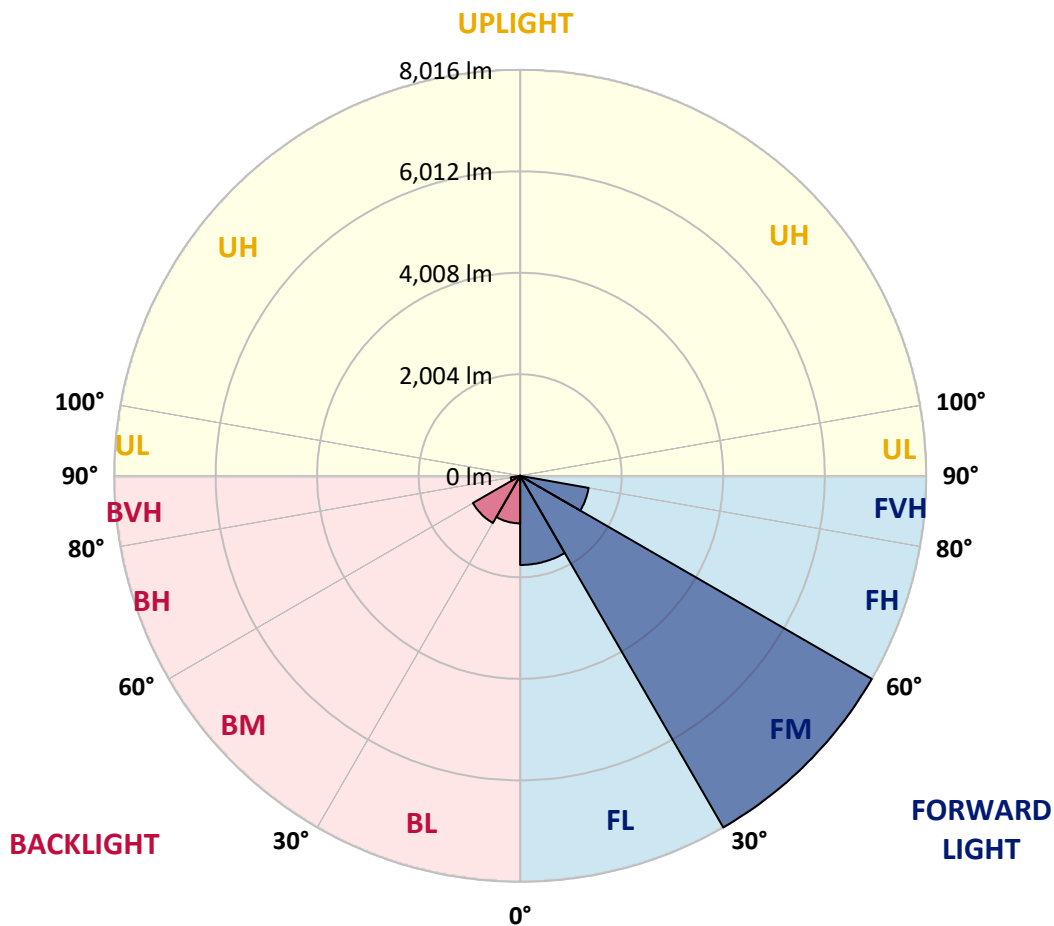
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.1	13.2			
FM (30°-60°)	8015.8	60.0			
FH (60°-80°)	1371.7	10.3			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	938.5	7.0	B2/1000		
BM (30°-60°)	1076.2	8.1	B2/2500		
BH (60°-80°)	189.5	1.4	B1/500		G1/500
BVH (80°-90°)	7.4	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°	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2
2.5°	4776.3	4734.0	4776.3	4781.3	4811.2	4838.6	4821.1	4861.0	4838.6	4813.7	4806.2
5°	4390.3	4447.6	4450.1	4539.7	4519.8	4684.2	4756.4	4736.5	4858.5	4851.0	4833.6
7.5°	4044.2	4021.8	4051.6	4156.2	4288.2	4477.5	4582.1	4579.6	4753.9	4878.4	4865.9
10°	3722.9	3720.4	3782.7	3864.9	3976.9	4176.1	4320.6	4392.8	4664.2	4853.5	4880.9
12.5°	3506.3	3496.3	3563.5	3630.8	3807.6	3962.0	4146.3	4181.1	4492.4	4766.3	4811.2
15°	3364.3	3386.7	3391.7	3521.2	3633.3	3837.5	3981.9	4054.1	4412.7	4696.6	4868.4
17.5°	3339.4	3369.3	3371.8	3478.9	3598.4	3770.2	3897.2	3994.4	4345.5	4731.5	4870.9
20°	3389.2	3371.8	3386.7	3454.0	3571.0	3735.4	3919.7	3952.0	4323.1	4748.9	4898.3
22.5°	3531.2	3526.2	3488.8	3543.6	3625.8	3797.6	3971.9	4021.8	4387.8	4838.6	4920.7
25°	3688.1	3715.5	3680.6	3673.1	3730.4	3899.7	4131.3	4196.1	4604.5	5000.4	4990.5
27.5°	3981.9	3954.5	3954.5	3919.7	3904.7	3986.9	4303.2	4410.2	4846.0	5209.6	5070.1
30°	4263.3	4293.2	4270.8	4283.2	4183.6	4176.1	4547.2	4679.2	5274.3	5528.4	5239.5
32.5°	4709.1	4669.2	4706.6	4674.2	4542.2	4407.7	4878.4	5015.4	5792.3	5894.4	5493.5
35°	5080.1	5062.7	5222.1	5217.1	5002.9	4870.9	5229.5	5433.7	6153.4	6332.7	5792.3
37.5°	5608.0	5575.7	5757.5	5844.6	5652.9	5456.1	5732.6	5969.1	6489.6	6683.8	6098.6
40°	6150.9	6233.1	6477.1	6621.6	6417.4	6155.9	6347.6	6419.9	6713.7	6912.9	6307.8
42.5°	6838.2	6957.8	7206.8	7331.3	7313.9	7030.0	6972.7	6970.2	6875.6	6848.2	6462.2
45°	7498.1	7453.3	7836.8	8108.3	8327.4	8245.2	7575.3	7500.6	7132.1	6945.3	6502.0
47.5°	7787.0	7772.1	8033.5	8516.7	9263.7	9365.8	8451.9	8163.0	7565.4	7353.7	6718.7
50°	7413.5	7490.7	7749.7	8285.1	9430.6	10210.0	9527.7	9139.2	8070.9	7851.8	7231.7
52.5°	6193.3	6245.5	6492.1	7171.9	8862.8	10708.1	10558.7	10334.5	8999.8	8636.2	8125.7
54°	5092.6	5232.0	5366.5	6048.8	7851.8	10431.7	11123.9	10952.1	9604.9	9288.6	8688.5
55°	4435.1	4517.3	4614.4	5294.3	7152.0	9963.5	11059.2	11074.1	10010.8	9492.8	9067.0
57.5°	3239.8	3297.1	3197.5	3498.8	4910.8	8090.8	10115.4	10518.8	10558.7	9799.1	9298.6
60°	2475.3	2500.2	2388.1	2435.5	3053.0	5553.3	7824.4	8310.0	9525.2	8564.0	7876.7
62.5°	1920.0	1925.0	1922.5	2004.7	2104.3	3267.2	4893.3	5324.2	6566.8	6081.2	5349.1
65°	1414.5	1392.0	1431.9	1680.9	1795.5	2054.5	2577.4	2891.2	3568.5	3013.2	2154.1
67.5°	916.4	923.9	963.7	1250.1	1539.0	1576.3	1586.3	1561.4	1563.9	861.6	540.4
70°	550.3	562.8	550.3	707.2	1100.7	1130.6	1033.5	1008.6	786.9	204.2	201.7
72.5°	326.2	308.8	276.4	303.8	458.2	547.9	493.1	490.6	308.8	119.5	119.5
75°	137.0	124.5	102.1	92.1	122.0	117.0	117.0	104.6	82.2	79.7	74.7
77.5°	27.4	27.4	19.9	22.4	29.9	34.9	42.3	42.3	49.8	49.8	47.3
80°	0.0	2.5	7.5	14.9	22.4	32.4	37.4	37.4	42.3	42.3	34.9
82.5°	0.0	2.5	7.5	14.9	19.9	29.9	37.4	37.4	42.3	44.8	37.4
85°	0.0	2.5	7.5	12.5	19.9	24.9	24.9	22.4	17.4	14.9	10.0
87.5°	0.0	0.0	2.5	5.0	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2	4801.2
2.5°	4823.6	4821.1	4761.4	4664.2	4641.8	4559.6	4549.7	4499.9	4527.3	4435.1	4425.2
5°	4783.8	4753.9	4681.7	4619.4	4437.6	4308.1	4206.0	4081.5	4009.3	4021.8	3974.4
7.5°	4841.0	4763.8	4636.8	4420.2	4198.6	3971.9	3849.9	3595.9	3503.8	3366.8	3346.9
10°	4781.3	4724.0	4527.3	4168.7	3862.4	3536.2	3249.8	2968.4	2754.2	2662.1	2642.2
12.5°	4776.3	4676.7	4348.0	3949.5	3506.3	3038.1	2622.2	2271.1	2059.4	1939.9	1912.5
15°	4699.1	4579.6	4146.3	3610.9	2998.3	2415.5	1962.3	1623.6	1461.8	1392.0	1412.0
17.5°	4706.6	4527.3	3944.6	3252.3	2497.7	1773.1	1339.8	1165.4	1123.1	1140.5	1140.5
20°	4699.1	4410.2	3700.5	2838.9	1912.5	1230.2	983.6	921.4	948.8	1003.6	991.1
22.5°	4659.3	4355.4	3476.4	2403.1	1407.0	911.4	789.4	791.9	834.2	901.5	916.4
25°	4689.1	4233.4	3192.5	1962.3	1026.0	727.2	684.8	702.3	747.1	796.9	806.8
27.5°	4666.7	4146.3	2896.2	1524.0	749.6	625.1	622.6	642.5	662.4	699.8	699.8
30°	4691.6	4066.6	2604.8	1133.1	617.6	572.8	562.8	577.7	597.7	605.1	602.6
32.5°	4783.8	4006.8	2268.6	846.7	545.4	523.0	523.0	523.0	520.5	530.4	532.9
35°	4985.5	4016.8	1972.3	654.9	498.0	480.6	473.1	463.2	458.2	463.2	465.7
37.5°	5204.6	4011.8	1666.0	557.8	463.2	448.2	430.8	415.9	413.4	418.4	410.9
40°	5301.7	4059.1	1382.1	500.5	430.8	413.4	386.0	373.5	376.0	381.0	376.0
42.5°	5433.7	4074.0	1197.8	455.7	400.9	373.5	356.1	341.2	338.7	346.1	343.7
45°	5431.2	3989.4	1003.6	430.8	373.5	343.7	321.2	308.8	308.8	313.8	316.3
47.5°	5590.6	3976.9	861.6	408.4	353.6	323.7	296.3	286.4	283.9	283.9	278.9
50°	5961.7	4151.2	752.1	383.5	328.7	301.3	278.9	266.5	256.5	251.5	249.0
52.5°	6686.3	4694.1	667.4	353.6	301.3	278.9	259.0	249.0	236.6	224.1	221.6
54°	7388.6	5254.4	662.4	328.7	278.9	264.0	246.5	241.6	226.6	209.2	204.2
55°	7704.8	5580.6	679.8	308.8	264.0	254.0	239.1	234.1	219.1	199.2	196.7
57.5°	7966.3	5707.7	669.9	256.5	239.1	236.6	224.1	216.7	199.2	171.8	166.8
60°	6412.4	4315.6	480.6	226.6	219.1	214.2	204.2	199.2	176.8	146.9	144.4
62.5°	4051.6	2482.8	306.3	199.2	191.7	184.3	171.8	166.8	146.9	117.0	109.6
65°	1725.7	1028.5	206.7	176.8	164.4	151.9	141.9	134.5	117.0	87.2	84.7
67.5°	448.2	366.1	171.8	154.4	137.0	119.5	112.1	99.6	79.7	59.8	57.3
70°	201.7	184.3	144.4	129.5	109.6	92.1	82.2	69.7	52.3	39.8	37.4
72.5°	119.5	117.0	109.6	97.1	82.2	69.7	59.8	47.3	34.9	22.4	22.4
75°	74.7	72.2	74.7	67.2	57.3	52.3	44.8	32.4	19.9	10.0	10.0
77.5°	44.8	44.8	44.8	42.3	39.8	39.8	32.4	19.9	10.0	2.5	2.5
80°	34.9	34.9	37.4	34.9	34.9	34.9	27.4	14.9	5.0	0.0	0.0
82.5°	34.9	37.4	42.3	39.8	34.9	29.9	24.9	14.9	5.0	0.0	0.0
85°	10.0	7.5	12.5	17.4	24.9	22.4	17.4	12.5	5.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	2.5	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)