

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: P651952

Luminaire Tested: **GALN-SA6A-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18760.2 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

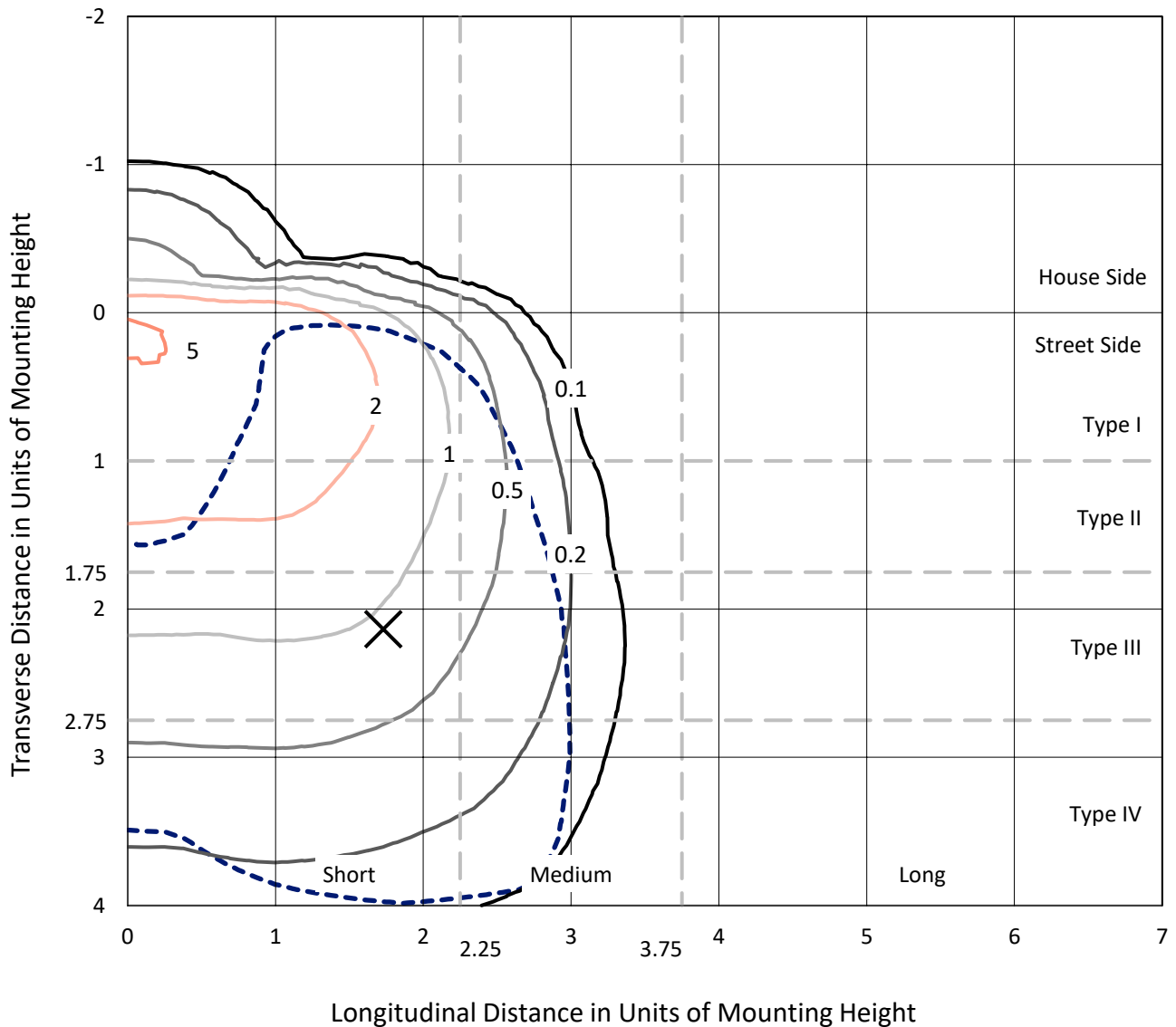
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

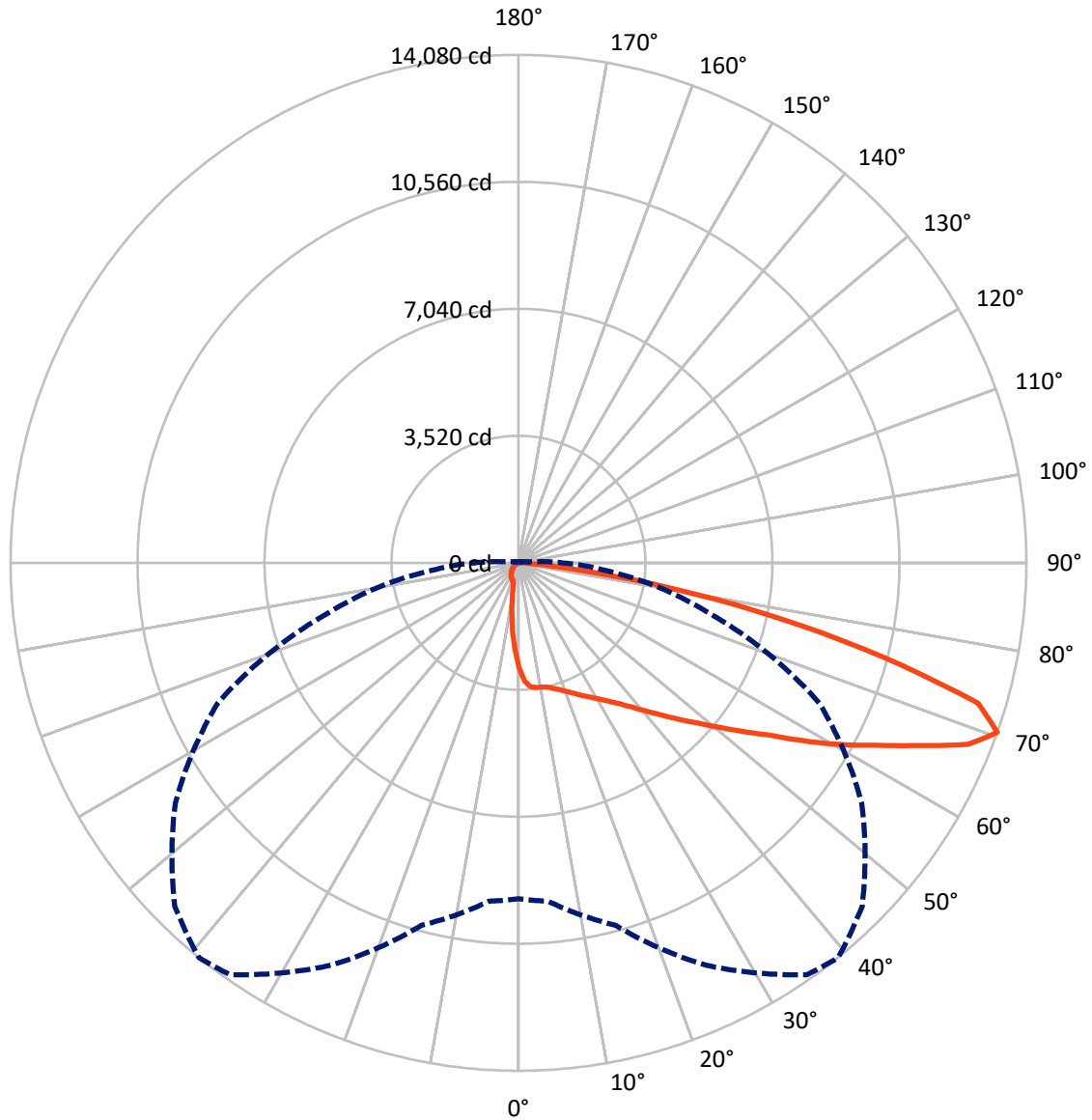
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1223.3	0.0	1223.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17536.9	0.0	17536.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	18760.2	0.0	18760.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	1.3
10°-20°	648.8	3.5
20°-30°	1087.0	5.8
30°-40°	1685.8	9.0
40°-50°	2671.4	14.2
50°-60°	3915.9	20.9
60°-70°	5019.2	26.8
70°-80°	3153.9	16.8
80°-90°	328.6	1.8
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°	18760.2	100.0
0°-180°	18760.2	100.0

Coefficient of Utilization

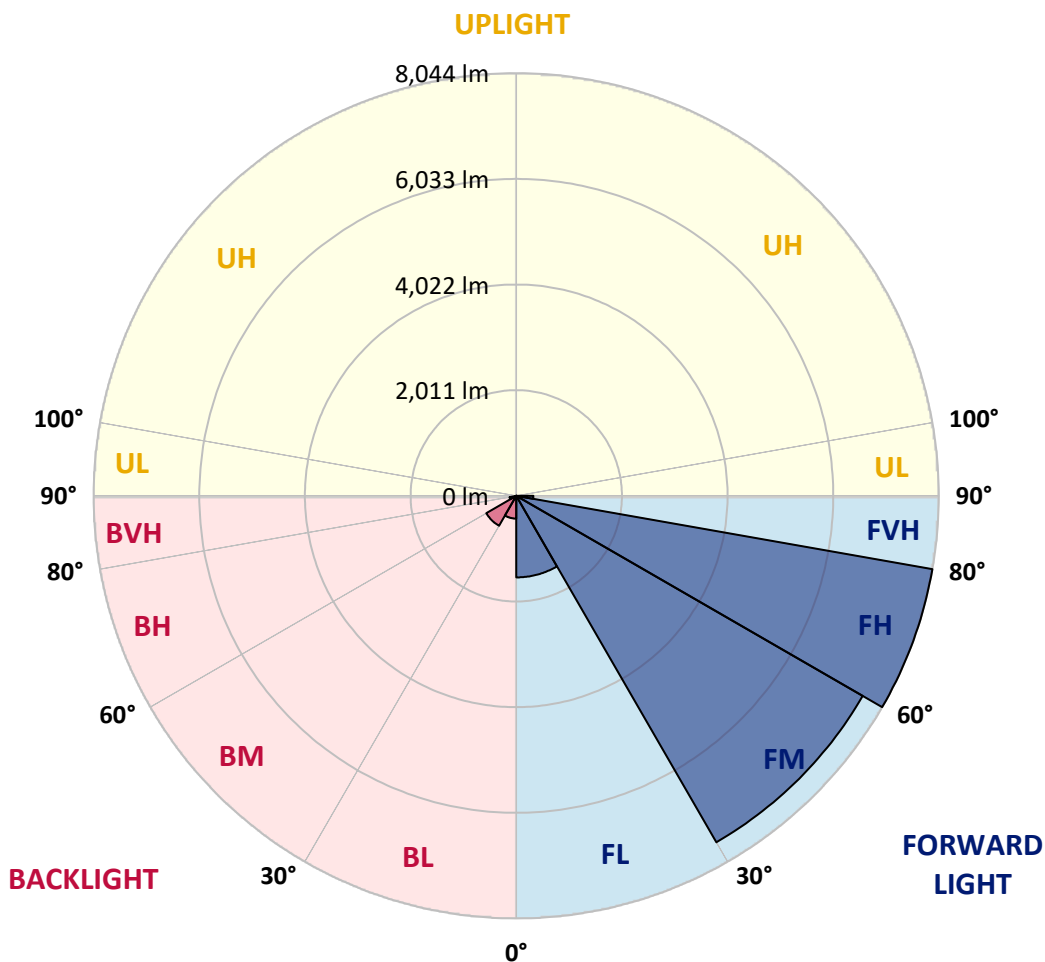


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.3	8.3			
FM (30°-60°)	7614.7	40.6			
FH (60°-80°)	8043.8	42.9			G4/12000
FVH (80°-90°)	326.1	1.7			G3/500
BL (0°-30°)	433.1	2.3	B1/500		
BM (30°-60°)	658.3	3.5	B1/1000		
BH (60°-80°)	129.4	0.7	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3
2.5°	3382.3	3371.0	3355.8	3338.2	3287.8	3279.0	3248.7	3184.4	3107.5	3044.5	2957.5
5°	3542.5	3548.8	3537.4	3505.9	3469.3	3447.8	3410.1	3310.5	3210.9	3083.5	2941.1
7.5°	3579.0	3591.6	3577.7	3547.5	3512.2	3489.5	3459.2	3373.5	3257.5	3112.5	2917.2
10°	3575.2	3590.3	3581.5	3553.8	3524.8	3503.4	3470.6	3402.5	3309.3	3156.7	2924.7
12.5°	3568.9	3589.1	3587.8	3573.9	3550.0	3533.6	3513.4	3452.9	3365.9	3220.9	2966.3
15°	3551.3	3576.4	3599.1	3610.5	3611.8	3611.8	3586.5	3522.3	3439.0	3305.5	3020.5
17.5°	3558.9	3587.8	3644.6	3677.4	3700.0	3697.5	3671.0	3601.7	3509.7	3392.4	3077.2
20°	3605.5	3644.6	3723.9	3789.5	3812.2	3804.7	3769.4	3688.6	3584.0	3466.8	3132.7
22.5°	3720.2	3755.5	3855.1	3932.0	3948.3	3928.2	3877.8	3768.1	3673.6	3547.5	3199.5
25°	3891.6	3933.3	4025.3	4083.2	4083.2	4071.9	4001.3	3872.7	3774.4	3659.7	3286.5
27.5°	4099.6	4134.9	4225.7	4277.4	4247.1	4214.3	4143.8	3988.7	3894.2	3800.9	3391.2
30°	4310.2	4332.8	4428.7	4451.3	4419.9	4378.2	4302.6	4147.6	4064.3	3992.5	3542.5
32.5°	4509.4	4558.6	4637.9	4632.9	4590.0	4569.8	4500.5	4335.4	4288.8	4281.2	3754.2
35°	4708.5	4746.4	4816.9	4834.6	4796.8	4793.0	4742.6	4620.3	4621.5	4670.7	4084.5
37.5°	4880.0	4914.0	4997.2	5036.3	5043.9	5062.7	5042.6	4961.9	5076.6	5211.5	4522.0
40°	5023.7	5071.6	5177.5	5245.6	5323.7	5393.1	5396.9	5414.5	5645.2	5877.2	5093.0
42.5°	5135.9	5202.7	5356.5	5482.6	5661.6	5749.8	5820.4	5917.5	6305.8	6652.5	5766.2
45°	5282.2	5359.0	5550.7	5748.6	6028.5	6173.4	6271.8	6531.5	7082.3	7555.1	6457.0
47.5°	5524.2	5564.5	5759.9	6048.6	6416.7	6623.5	6815.0	7208.4	7915.7	8339.2	7031.9
50°	5835.5	5862.0	6009.5	6410.4	6886.9	7159.3	7508.4	7971.1	8780.5	8989.7	7357.2
52.5°	6179.8	6188.5	6299.5	6808.8	7413.9	7756.8	8147.6	8718.6	9485.1	9453.6	7572.7
55°	6579.3	6566.7	6661.3	7241.2	8037.9	8430.0	8885.1	9483.9	10096.5	9782.7	7696.2
57.5°	7037.0	7002.9	7094.9	7814.7	8837.1	9306.2	9768.8	10144.5	10570.5	10058.7	7755.5
60°	7516.0	7447.9	7557.6	8458.9	9778.9	10223.9	10608.4	10709.2	11069.7	10278.1	7653.4
62.5°	7898.0	7899.3	8103.5	9144.8	10747.1	11136.6	11340.8	11431.6	11499.7	10230.2	7116.4
65°	8494.3	8514.5	8840.9	10096.5	11867.8	12205.6	12345.5	12050.6	11518.6	9635.2	6309.6
67.5°	9109.5	9173.8	9771.3	11407.7	13162.5	13434.7	13254.5	12170.4	11004.2	8277.5	4784.2
70°	9309.9	9415.8	10400.4	12310.2	13939.0	14080.2	13470.0	11611.9	9198.9	5534.3	2407.9
72.5°	8530.9	8702.2	10038.6	11981.2	13443.6	13321.3	12051.9	9738.5	5848.1	2101.5	734.9
75°	6015.8	6091.4	8343.0	9938.9	10812.6	10465.9	9167.5	6278.1	2405.3	590.0	252.1
77.5°	3106.2	3069.6	4961.9	6594.4	7711.4	7352.1	6003.2	3250.0	911.5	245.8	156.3
80°	1606.1	1632.5	2146.9	3455.4	4707.2	4331.6	3200.8	1506.5	485.3	136.2	119.8
82.5°	900.1	844.6	1234.2	1509.0	2201.1	1725.8	1227.9	1066.5	211.8	81.9	113.5
85°	163.9	171.5	677.0	815.6	764.0	485.3	395.9	712.2	61.8	45.4	79.4
87.5°	2.5	2.5	131.1	234.5	148.8	68.0	124.8	102.1	12.6	17.7	13.9
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°	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3	2927.3
2.5°	2913.4	2865.5	2776.0	2687.7	2575.5	2483.5	2421.7	2357.4	2291.9	2296.9	2312.0
5°	2862.9	2779.8	2603.2	2416.7	2237.6	2076.3	1917.5	1775.0	1717.0	1664.1	1666.6
7.5°	2812.5	2695.2	2436.8	2144.4	1873.3	1598.5	1399.3	1235.4	1148.5	1082.9	1063.9
10°	2789.8	2634.8	2284.3	1882.2	1497.7	1197.6	941.7	808.1	704.7	672.0	680.8
12.5°	2799.9	2604.5	2146.9	1645.2	1187.5	834.5	655.6	587.4	564.7	561.0	558.5
15°	2818.8	2583.0	2012.0	1382.9	872.4	620.2	550.9	538.3	535.8	533.3	534.5
17.5°	2844.0	2564.1	1868.3	1137.1	669.4	542.1	521.9	515.6	514.4	514.4	514.4
20°	2869.2	2542.8	1708.2	917.8	558.5	511.8	499.2	495.4	494.2	494.2	492.9
22.5°	2898.3	2523.8	1545.6	721.1	514.4	490.4	479.0	476.5	475.2	474.0	474.0
25°	2939.8	2499.9	1372.8	590.0	486.6	470.2	458.8	456.3	455.1	450.0	451.3
27.5°	2995.3	2482.2	1195.1	509.3	461.4	445.0	437.4	433.7	431.2	427.4	428.7
30°	3070.9	2467.1	1006.0	465.2	432.4	418.6	411.0	408.5	406.0	402.2	402.2
32.5°	3202.0	2473.4	806.9	429.9	406.0	389.6	382.0	379.5	376.9	373.2	373.2
35°	3398.7	2510.0	645.5	399.6	374.4	358.0	350.4	350.4	346.7	341.6	340.4
37.5°	3720.2	2603.2	518.1	370.6	344.1	329.0	320.2	317.6	313.9	306.4	305.1
40°	4099.6	2748.2	436.2	341.6	316.4	301.3	293.8	286.2	276.1	268.5	267.3
42.5°	4576.1	2897.0	378.2	312.6	290.0	276.1	267.3	254.7	239.5	229.4	228.2
45°	5072.8	3033.2	339.1	286.2	264.7	253.4	243.3	223.1	204.2	191.6	190.3
47.5°	5443.5	3058.4	307.6	261.0	243.3	231.9	218.1	192.8	167.7	156.3	152.6
50°	5618.7	2936.1	274.8	235.7	221.9	209.2	191.6	162.6	134.9	121.0	118.5
52.5°	5680.5	2724.3	248.3	213.0	200.4	185.4	163.9	131.1	105.9	92.0	90.7
55°	5655.3	2457.0	224.4	191.6	175.3	157.6	136.2	104.6	78.1	66.8	64.3
57.5°	5522.9	2116.6	200.4	170.2	150.0	132.4	108.4	78.1	53.0	42.9	41.6
60°	5166.2	1652.7	176.5	146.2	127.3	108.4	85.7	55.5	32.8	24.0	24.0
62.5°	4563.5	1226.6	153.8	122.3	107.1	87.0	60.6	35.3	17.7	12.6	11.4
65°	3813.4	905.2	128.6	103.4	89.5	68.0	42.9	21.4	8.8	3.8	2.5
67.5°	2661.3	558.5	107.1	84.4	73.1	49.2	26.5	8.8	3.8	0.0	0.0
70°	1208.9	266.0	81.9	64.3	55.5	35.3	13.9	5.0	2.5	0.0	0.0
72.5°	375.7	139.9	58.0	46.7	37.8	22.7	7.6	3.8	2.5	0.0	0.0
75°	174.0	89.5	36.6	25.2	21.4	11.4	5.0	2.5	1.3	0.0	0.0
77.5°	129.9	69.3	21.4	13.9	11.4	7.6	3.8	2.5	1.3	0.0	0.0
80°	113.5	35.3	12.6	8.8	6.3	5.0	2.5	1.3	0.0	0.0	0.0
82.5°	102.1	17.7	7.6	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0
85°	55.5	10.1	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.1	5.0	3.8	2.5	2.5	1.3	1.3	1.3	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)