

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: P454840

Luminaire Tested: **GALN-SA6A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454840
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-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 18655 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

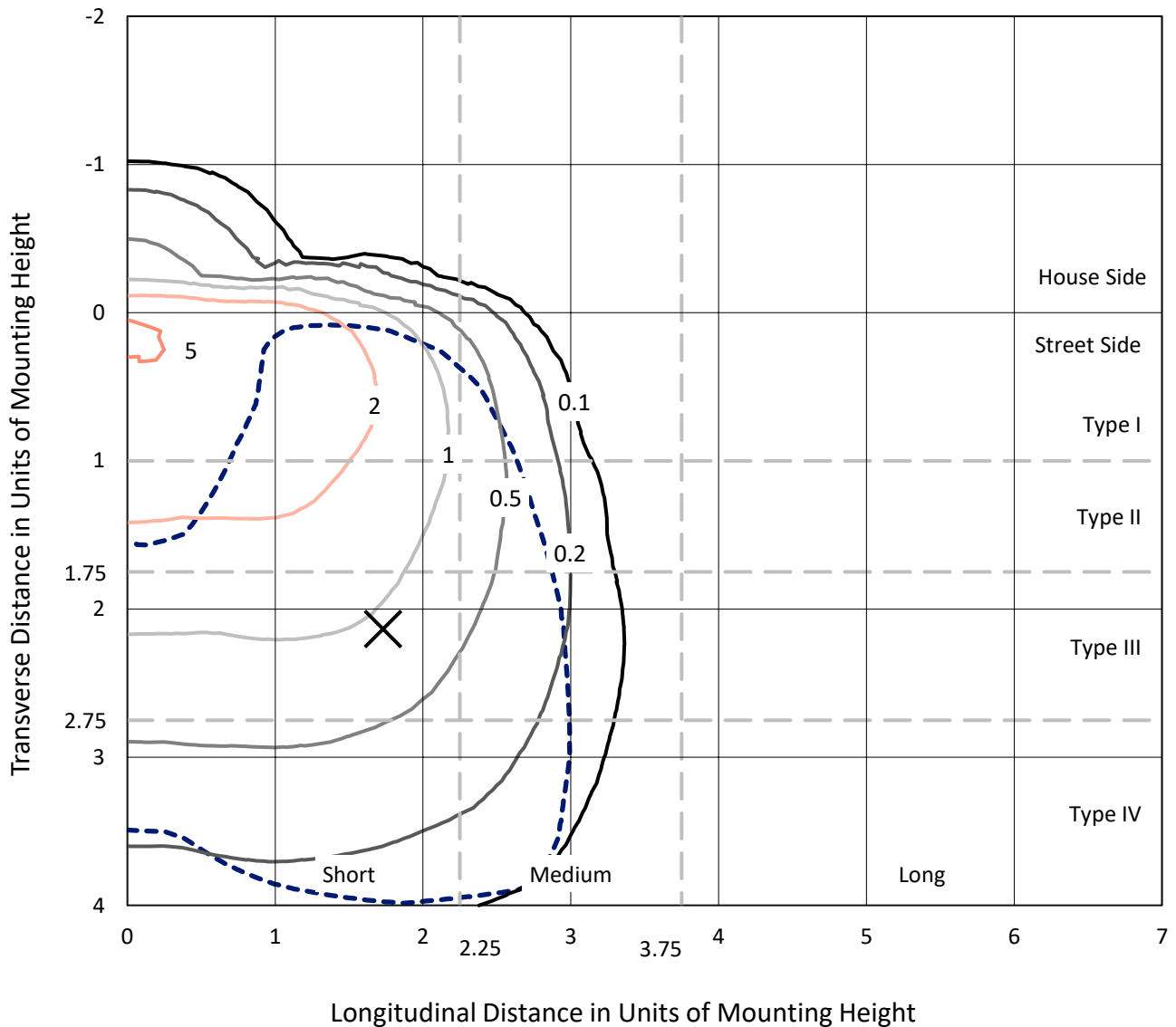
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

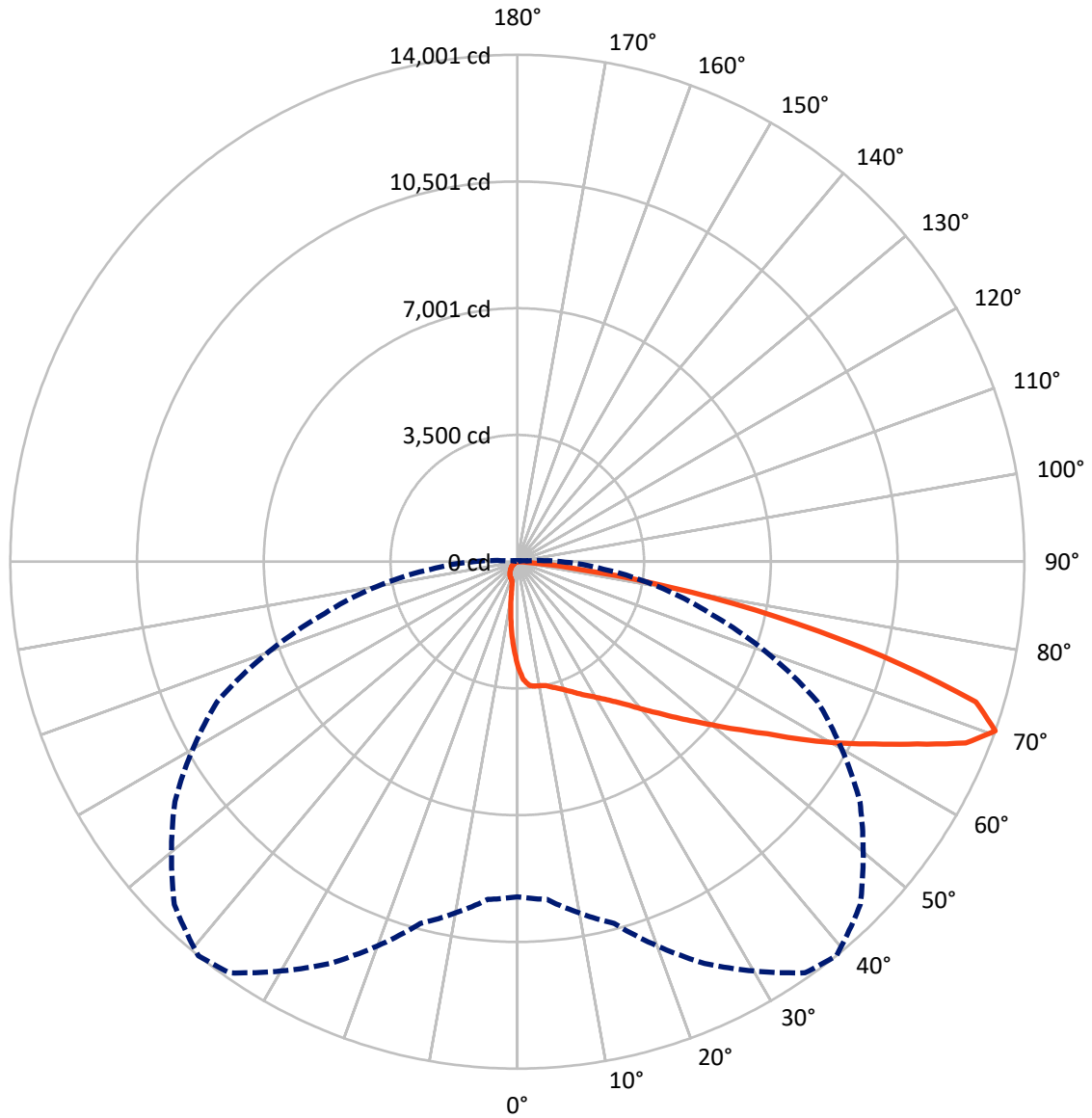
✕ Max cd
 - - - 1/2 Max cd



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	1216.4	0.0	1216.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17438.6	0.0	17438.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	18655.0	0.0	18655.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.3
10°-20°	645.2	3.5
20°-30°	1080.9	5.8
30°-40°	1676.3	9.0
40°-50°	2656.4	14.2
50°-60°	3893.9	20.9
60°-70°	4991.1	26.8
70°-80°	3136.2	16.8
80°-90°	326.7	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°	18655.0	100.0
0°-180°	18655.0	100.0



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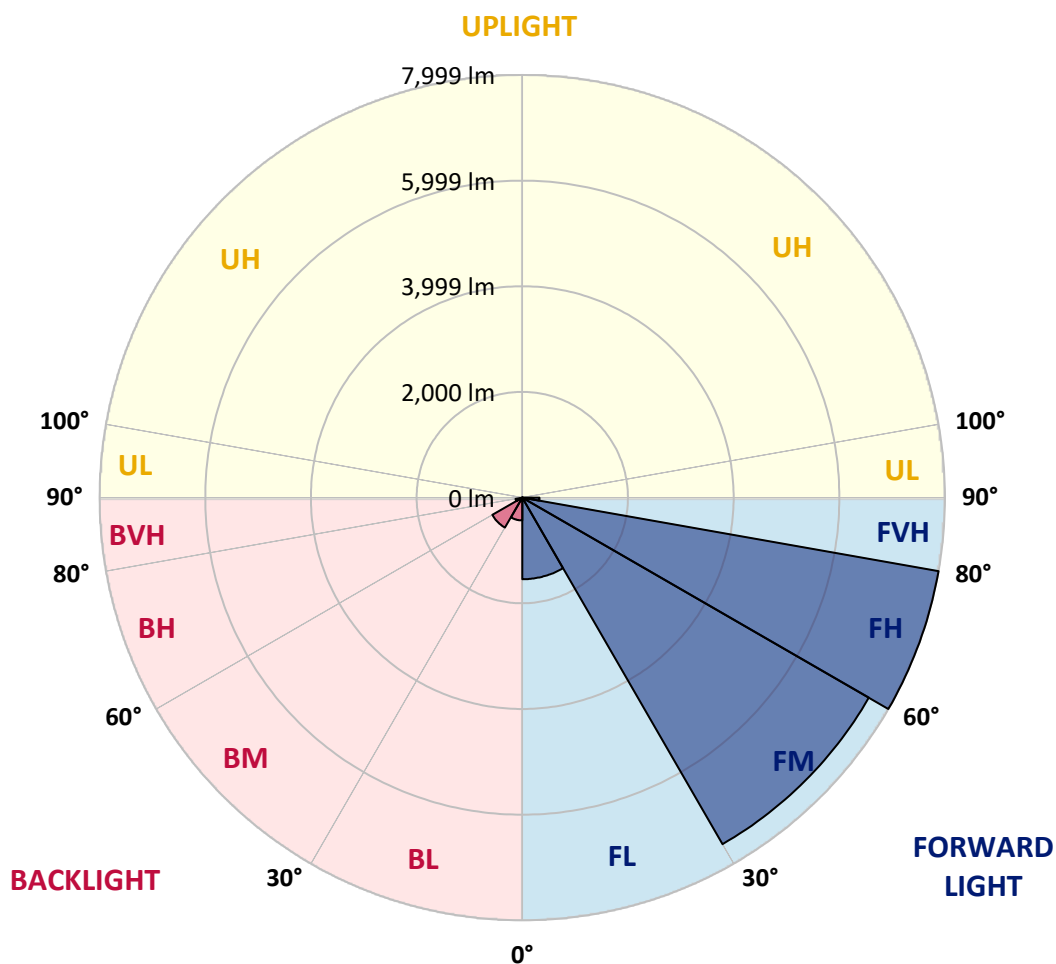
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.6	8.3			
FM	(30°-60°)	7572.0	40.6			
FH	(60°-80°)	7998.7	42.9			G4/12000
FVH	(80°-90°)	324.3	1.7			G3/500
BL	(0°-30°)	430.7	2.3	B1/500		
BM	(30°-60°)	654.6	3.5	B1/1000		
BH	(60°-80°)	128.6	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°	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8
2.5°	3363.4	3352.1	3337.0	3319.5	3269.3	3260.6	3230.5	3166.6	3090.1	3027.4	2940.9
5°	3522.6	3528.8	3517.6	3486.2	3449.9	3428.5	3390.9	3291.9	3192.9	3066.3	2924.6
7.5°	3558.9	3571.5	3557.7	3527.6	3492.5	3469.9	3439.8	3354.6	3239.3	3095.1	2900.8
10°	3555.2	3570.2	3561.4	3533.9	3505.0	3483.7	3451.1	3383.4	3290.7	3139.0	2908.3
12.5°	3548.9	3569.0	3567.7	3553.9	3530.1	3513.8	3493.7	3433.6	3347.1	3202.9	2949.7
15°	3531.3	3556.4	3579.0	3590.3	3591.5	3591.5	3566.4	3502.5	3419.8	3286.9	3003.6
17.5°	3538.9	3567.7	3624.1	3656.7	3679.3	3676.8	3650.4	3581.5	3490.0	3373.4	3060.0
20°	3585.2	3624.1	3703.1	3768.3	3790.8	3783.3	3748.2	3668.0	3563.9	3447.4	3115.2
22.5°	3699.3	3734.4	3833.5	3909.9	3926.2	3906.2	3856.0	3747.0	3652.9	3527.6	3181.6
25°	3869.8	3911.2	4002.7	4060.4	4060.4	4049.1	3978.9	3851.0	3753.2	3639.2	3268.1
27.5°	4076.7	4111.8	4202.0	4253.4	4223.3	4190.7	4120.5	3966.3	3872.3	3779.6	3372.1
30°	4286.0	4308.6	4403.8	4426.4	4395.1	4353.7	4278.5	4124.3	4041.6	3970.1	3522.6
32.5°	4484.1	4533.0	4611.9	4606.9	4564.3	4544.2	4475.3	4311.1	4264.7	4257.2	3733.2
35°	4682.1	4719.7	4789.9	4807.5	4769.9	4766.1	4716.0	4594.4	4595.6	4644.5	4061.6
37.5°	4852.6	4886.5	4969.2	5008.1	5015.6	5034.4	5014.3	4934.1	5048.2	5182.3	4496.6
40°	4995.5	5043.2	5148.5	5216.2	5293.9	5362.8	5366.6	5384.1	5613.5	5844.2	5064.5
42.5°	5107.1	5173.5	5326.5	5451.8	5629.8	5717.6	5787.8	5884.3	6270.4	6615.2	5733.9
45°	5252.5	5329.0	5519.5	5716.3	5994.6	6138.8	6236.6	6494.8	7042.6	7512.7	6420.9
47.5°	5493.2	5533.3	5727.6	6014.7	6380.7	6586.3	6776.9	7168.0	7871.2	8292.5	6992.5
50°	5802.8	5829.2	5975.8	6374.5	6848.3	7119.1	7466.3	7926.4	8731.2	8939.3	7315.9
52.5°	6145.1	6153.8	6264.2	6770.6	7372.3	7713.3	8101.9	8669.8	9432.0	9400.6	7530.3
55°	6542.5	6529.9	6623.9	7200.6	7992.8	8382.7	8835.3	9430.7	10039.9	9727.8	7653.1
57.5°	6997.5	6963.7	7055.2	7771.0	8787.6	9254.0	9714.0	10087.6	10511.3	10002.3	7712.0
60°	7473.9	7406.2	7515.2	8411.5	9724.0	10166.6	10548.9	10649.2	11007.7	10220.5	7610.5
62.5°	7853.7	7855.0	8058.0	9093.5	10686.8	11074.2	11277.2	11367.5	11435.2	10172.8	7076.5
65°	8446.6	8466.7	8791.4	10039.9	11801.2	12137.2	12276.3	11983.0	11454.0	9581.1	6274.2
67.5°	9058.4	9122.3	9716.5	11343.7	13088.7	13359.4	13180.2	12102.1	10942.5	8231.0	4757.3
70°	9257.7	9363.0	10342.1	12241.2	13860.9	14001.3	13394.5	11546.8	9147.4	5503.2	2394.3
72.5°	8483.0	8653.5	9982.3	11914.1	13368.2	13246.6	11984.3	9683.9	5815.4	2089.7	730.8
75°	5982.1	6057.3	8296.2	9883.2	10752.0	10407.2	9116.1	6242.8	2391.8	586.7	250.7
77.5°	3088.8	3052.5	4934.1	6557.5	7668.2	7310.9	5969.6	3231.7	906.3	244.4	155.4
80°	1597.1	1623.4	2134.9	3436.1	4680.9	4307.3	3182.8	1498.0	482.6	135.4	119.1
82.5°	895.1	839.9	1227.3	1500.5	2188.8	1716.2	1221.0	1060.5	210.6	81.5	112.8
85°	163.0	170.5	673.2	811.1	759.7	482.6	393.6	708.3	61.4	45.1	79.0
87.5°	2.5	2.5	130.4	233.2	147.9	67.7	124.1	101.5	12.5	17.6	13.8
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°	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8	2910.8
2.5°	2897.0	2849.4	2760.4	2672.6	2561.1	2469.6	2408.1	2344.2	2279.0	2284.0	2299.1
5°	2846.9	2764.2	2588.6	2403.1	2225.1	2064.7	1906.7	1765.0	1707.4	1654.7	1657.2
7.5°	2796.7	2680.2	2423.2	2132.3	1862.8	1589.5	1391.5	1228.5	1142.0	1076.8	1058.0
10°	2774.2	2620.0	2271.5	1871.6	1489.3	1190.9	936.4	803.5	700.8	668.2	676.9
12.5°	2784.2	2589.9	2134.9	1635.9	1180.9	829.9	651.9	584.2	561.6	557.8	555.3
15°	2803.0	2568.6	2000.7	1375.2	867.5	616.8	547.8	535.3	532.8	530.3	531.5
17.5°	2828.1	2549.8	1857.8	1130.7	665.7	539.0	519.0	512.7	511.5	511.5	511.5
20°	2853.2	2528.5	1698.6	912.6	555.3	509.0	496.4	492.7	491.4	491.4	490.2
22.5°	2882.0	2509.7	1536.9	717.0	511.5	487.6	476.4	473.9	472.6	471.3	471.3
25°	2923.4	2485.9	1365.2	586.7	483.9	467.6	456.3	453.8	452.5	447.5	448.8
27.5°	2978.5	2468.3	1188.4	506.4	458.8	442.5	435.0	431.2	428.7	425.0	426.2
30°	3053.7	2453.3	1000.4	462.6	430.0	416.2	408.7	406.2	403.7	399.9	399.9
32.5°	3184.1	2459.5	802.3	427.5	403.7	387.4	379.8	377.3	374.8	371.1	371.1
35°	3379.7	2495.9	641.8	397.4	372.3	356.0	348.5	348.5	344.7	339.7	338.5
37.5°	3699.3	2588.6	515.2	368.6	342.2	327.2	318.4	315.9	312.1	304.6	303.4
40°	4076.7	2732.8	433.7	339.7	314.6	299.6	292.1	284.6	274.5	267.0	265.8
42.5°	4550.5	2880.7	376.1	310.9	288.3	274.5	265.8	253.2	238.2	228.2	226.9
45°	5044.4	3016.1	337.2	284.6	263.3	252.0	241.9	221.9	203.1	190.5	189.3
47.5°	5413.0	3041.2	305.9	259.5	241.9	230.7	216.9	191.8	166.7	155.4	151.7
50°	5587.2	2919.6	273.3	234.4	220.6	208.1	190.5	161.7	134.1	120.3	117.8
52.5°	5648.6	2709.0	247.0	211.9	199.3	184.3	163.0	130.4	105.3	91.5	90.3
55°	5623.6	2443.2	223.1	190.5	174.2	156.7	135.4	104.0	77.7	66.4	63.9
57.5°	5491.9	2104.8	199.3	169.2	149.2	131.6	107.8	77.7	52.7	42.6	41.4
60°	5137.2	1643.4	175.5	145.4	126.6	107.8	85.2	55.2	32.6	23.8	23.8
62.5°	4538.0	1219.7	152.9	121.6	106.6	86.5	60.2	35.1	17.6	12.5	11.3
65°	3792.1	900.1	127.9	102.8	89.0	67.7	42.6	21.3	8.8	3.8	2.5
67.5°	2646.3	555.3	106.6	84.0	72.7	48.9	26.3	8.8	3.8	0.0	0.0
70°	1202.2	264.5	81.5	63.9	55.2	35.1	13.8	5.0	2.5	0.0	0.0
72.5°	373.6	139.1	57.7	46.4	37.6	22.6	7.5	3.8	2.5	0.0	0.0
75°	173.0	89.0	36.4	25.1	21.3	11.3	5.0	2.5	1.3	0.0	0.0
77.5°	129.1	68.9	21.3	13.8	11.3	7.5	3.8	2.5	1.3	0.0	0.0
80°	112.8	35.1	12.5	8.8	6.3	5.0	2.5	1.3	0.0	0.0	0.0
82.5°	101.5	17.6	7.5	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0
85°	55.2	10.0	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.0	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)