

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: P648432

Luminaire Tested: **GALN-SA5B-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648432
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-SA5B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA 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: 18353.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

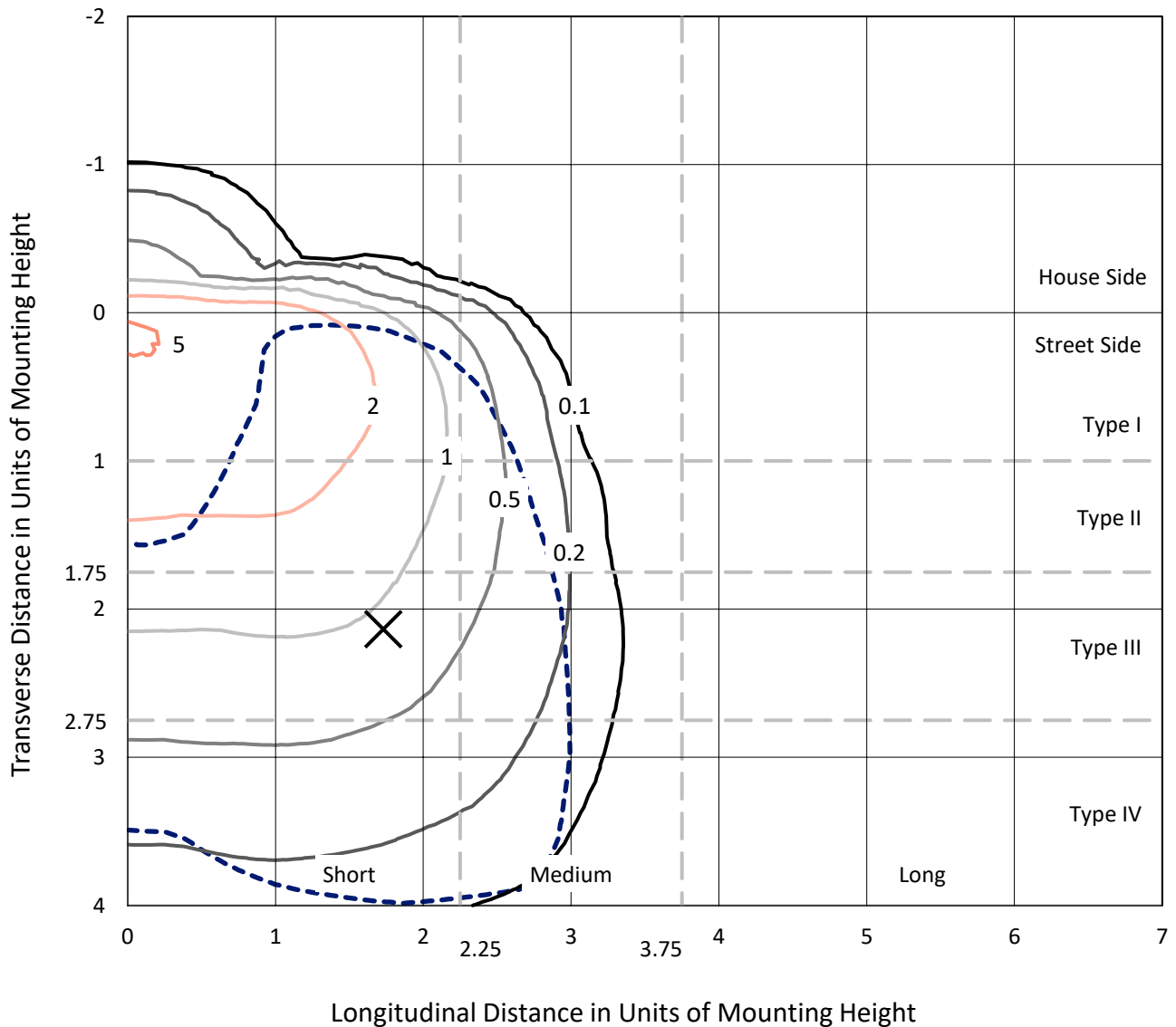
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

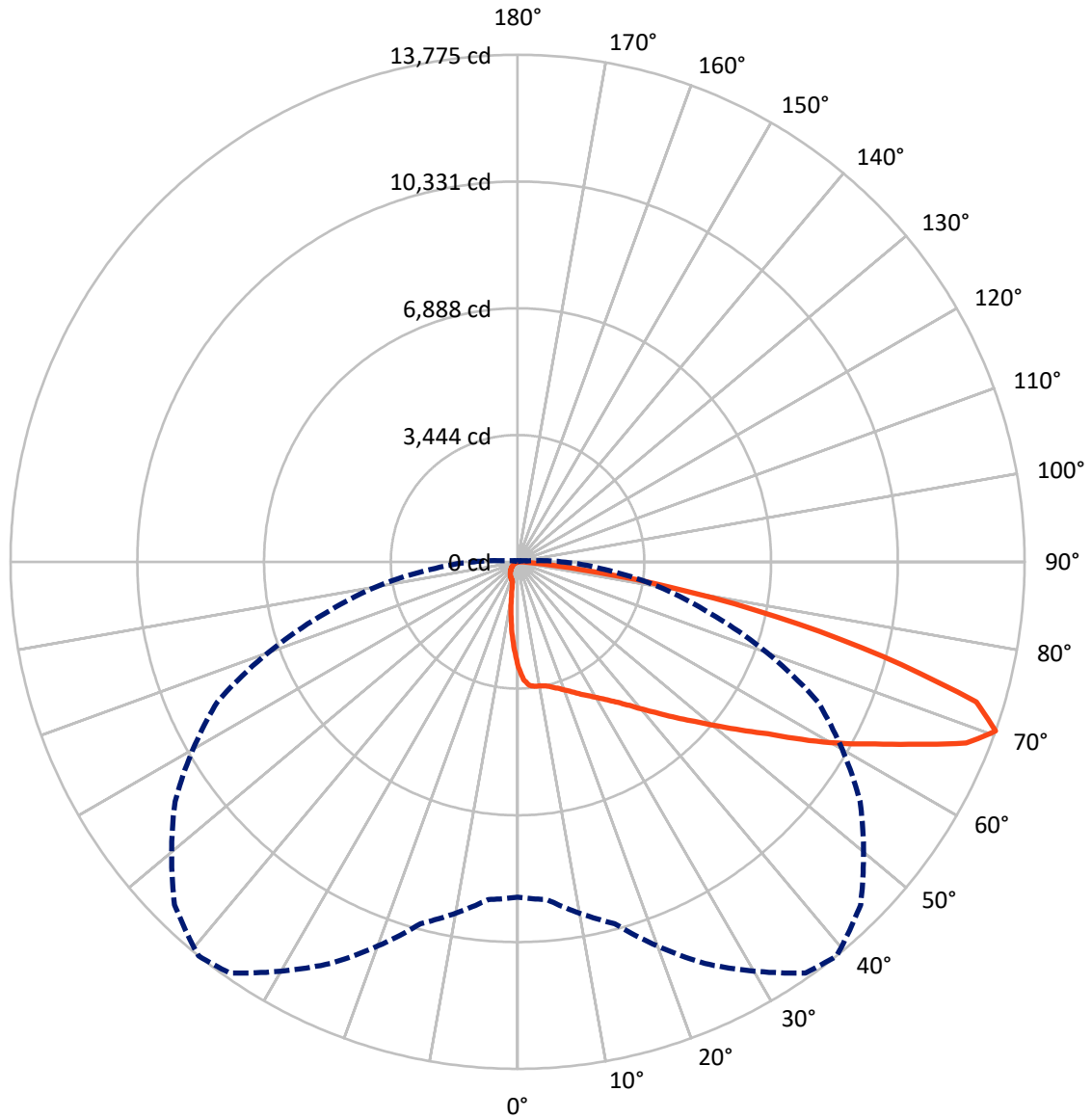
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1196.8	0.0	1196.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17156.8	0.0	17156.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	18353.5	0.0	18353.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	1.3
10°-20°	634.8	3.5
20°-30°	1063.4	5.8
30°-40°	1649.2	9.0
40°-50°	2613.5	14.2
50°-60°	3831.0	20.9
60°-70°	4910.4	26.8
70°-80°	3085.5	16.8
80°-90°	321.5	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°	18353.5	100.0
0°-180°	18353.5	100.0

Coefficient of Utilization

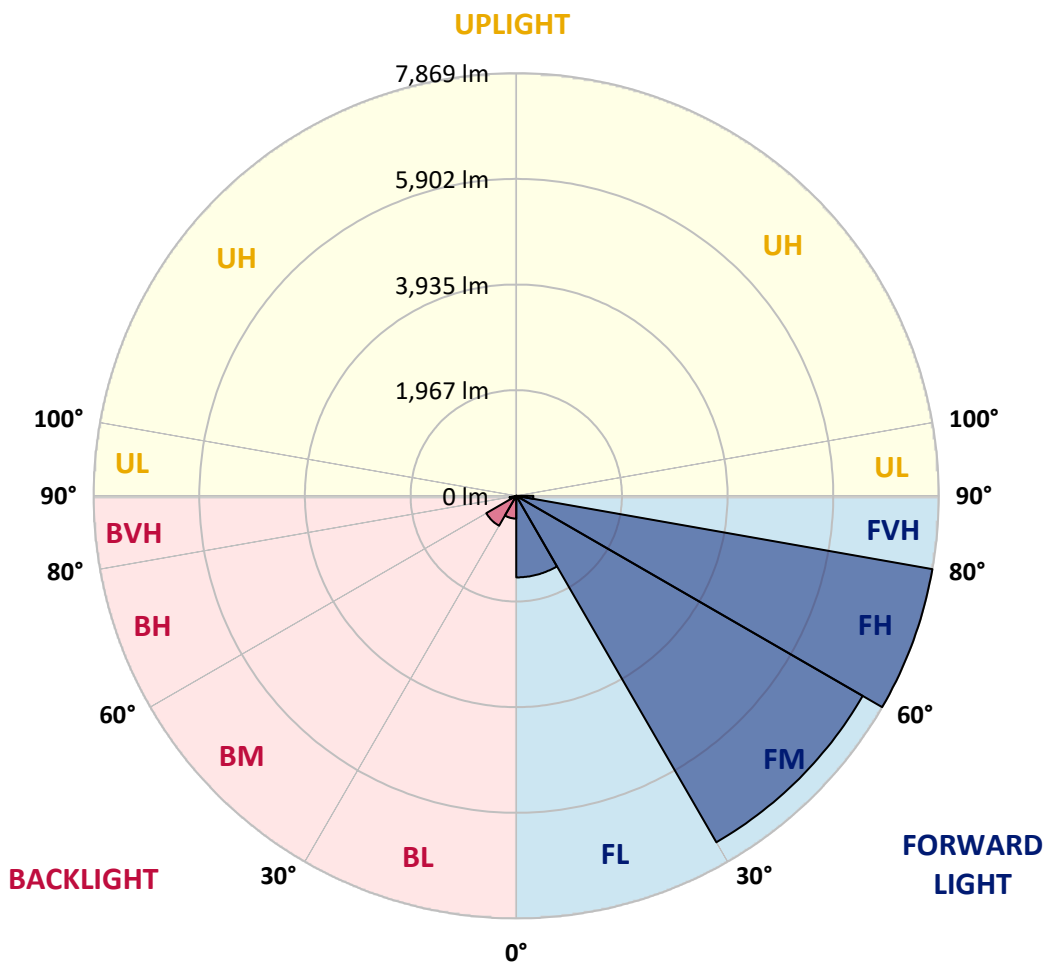


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.7	8.3			
FM (30°-60°)	7449.7	40.6			
FH (60°-80°)	7869.4	42.9			G4/12000
FVH (80°-90°)	319.1	1.7			G3/500
BL (0°-30°)	423.8	2.3	B1/500		
BM (30°-60°)	644.1	3.5	B1/1000		
BH (60°-80°)	126.6	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°	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7
2.5°	3309.0	3297.9	3283.1	3265.8	3216.5	3207.9	3178.3	3115.4	3040.2	2978.5	2893.3
5°	3465.6	3471.8	3460.7	3429.9	3394.1	3373.2	3336.1	3238.7	3141.2	3016.7	2877.4
7.5°	3501.4	3513.7	3500.2	3470.6	3436.0	3413.9	3384.2	3300.3	3186.9	3045.1	2853.9
10°	3497.7	3512.5	3503.8	3476.8	3448.4	3427.4	3395.3	3328.8	3237.5	3088.2	2861.3
12.5°	3491.6	3511.3	3510.0	3496.5	3473.1	3457.0	3437.3	3378.1	3293.0	3151.1	2902.0
15°	3474.2	3498.9	3521.2	3532.3	3533.4	3533.4	3508.8	3445.9	3364.5	3233.8	2955.0
17.5°	3481.7	3510.0	3565.5	3597.6	3619.8	3617.3	3591.5	3523.6	3433.6	3318.9	3010.6
20°	3527.3	3565.5	3643.2	3707.3	3729.6	3722.1	3687.6	3608.7	3506.4	3391.6	3064.8
22.5°	3639.5	3674.1	3771.5	3846.7	3862.8	3843.0	3793.7	3686.4	3593.9	3470.6	3130.2
25°	3807.3	3848.0	3938.0	3994.7	3994.7	3983.7	3914.6	3788.8	3692.5	3580.3	3215.3
27.5°	4010.8	4045.3	4134.1	4184.7	4155.1	4123.0	4053.9	3902.2	3809.8	3718.5	3317.6
30°	4216.8	4238.9	4332.7	4354.9	4324.0	4283.3	4209.3	4057.7	3976.2	3905.9	3465.6
32.5°	4411.6	4459.7	4537.4	4532.5	4490.5	4470.8	4403.0	4241.4	4195.8	4188.3	3672.8
35°	4606.5	4643.5	4712.6	4729.8	4692.8	4689.1	4639.7	4520.1	4521.4	4569.4	3996.0
37.5°	4774.2	4807.5	4888.9	4927.1	4934.5	4953.0	4933.3	4854.4	4966.6	5098.6	4424.0
40°	4914.8	4961.6	5065.2	5131.9	5208.4	5276.2	5279.8	5297.2	5522.8	5749.7	4982.6
42.5°	5024.6	5089.9	5240.4	5363.7	5538.9	5625.2	5694.3	5789.2	6169.1	6508.2	5641.2
45°	5167.6	5242.9	5430.3	5624.0	5897.8	6039.6	6135.8	6389.8	6928.8	7391.3	6317.1
47.5°	5404.4	5443.9	5635.1	5917.5	6277.6	6479.9	6667.3	7052.2	7744.0	8158.5	6879.5
50°	5709.1	5734.9	5879.2	6271.4	6737.6	7004.0	7345.7	7798.3	8590.1	8794.8	7197.6
52.5°	6045.8	6054.4	6162.9	6661.2	7253.2	7588.7	7970.9	8529.7	9279.6	9248.7	7408.6
55°	6436.7	6424.4	6516.9	7084.2	7863.7	8247.3	8692.5	9278.3	9877.7	9570.6	7529.4
57.5°	6884.4	6851.1	6941.1	7645.4	8645.6	9104.4	9557.1	9924.5	10341.4	9840.7	7587.4
60°	7353.1	7286.4	7393.8	8275.6	9566.9	10002.3	10378.4	10477.1	10829.8	10055.3	7487.5
62.5°	7726.8	7728.0	7927.8	8946.6	10514.1	10895.2	11095.0	11183.7	11250.4	10008.5	6962.1
65°	8310.1	8329.9	8649.3	9877.7	11610.5	11941.1	12077.9	11789.3	11268.9	9426.3	6172.8
67.5°	8912.0	8974.9	9559.5	11160.3	12877.1	13143.5	12967.2	11906.5	10765.7	8098.0	4680.5
70°	9108.1	9211.7	10174.9	12043.4	13636.9	13775.0	13178.0	11360.2	8999.6	5414.3	2355.7
72.5°	8345.9	8513.6	9820.9	11721.5	13152.2	13032.6	11790.6	9527.5	5721.4	2055.9	719.0
75°	5885.4	5959.4	8162.1	9723.5	10578.3	10239.1	8968.7	6141.9	2353.1	577.2	246.6
77.5°	3038.9	3003.1	4854.4	6451.5	7544.2	7192.7	5873.1	3179.5	891.7	240.5	152.9
80°	1571.2	1597.2	2100.3	3380.5	4605.2	4237.7	3131.4	1473.8	474.8	133.2	117.1
82.5°	880.6	826.3	1207.4	1476.3	2153.4	1688.4	1201.3	1043.4	207.2	80.2	111.0
85°	160.4	167.7	662.3	798.0	747.4	474.8	387.3	696.8	60.4	44.4	77.7
87.5°	2.5	2.5	128.3	229.4	145.6	66.6	122.1	99.9	12.4	17.3	13.5
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°	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7	2863.7
2.5°	2850.2	2803.4	2715.8	2629.5	2519.7	2429.6	2369.2	2306.3	2242.2	2247.1	2261.9
5°	2800.9	2719.5	2546.8	2364.3	2189.1	2031.3	1875.9	1736.5	1679.8	1628.0	1630.4
7.5°	2751.5	2636.8	2384.0	2097.9	1832.7	1563.9	1369.0	1208.6	1123.5	1059.4	1040.9
10°	2729.4	2577.6	2234.8	1841.4	1465.2	1171.7	921.3	790.6	689.4	657.3	666.0
12.5°	2739.2	2548.0	2100.3	1609.5	1161.8	816.4	641.4	574.7	552.6	548.8	546.4
15°	2757.7	2527.1	1968.4	1352.9	853.5	606.8	538.9	526.6	524.1	521.7	523.0
17.5°	2782.4	2508.6	1827.8	1112.5	654.9	530.3	510.6	504.4	503.2	503.2	503.2
20°	2807.1	2487.6	1671.2	897.9	546.4	500.7	488.4	484.7	483.4	483.4	482.2
22.5°	2835.4	2469.1	1512.1	705.5	503.2	479.7	468.6	466.2	464.9	463.7	463.7
25°	2876.1	2445.7	1343.1	577.2	476.1	460.0	448.9	446.5	445.2	440.3	441.5
27.5°	2930.4	2428.4	1169.2	498.3	451.4	435.3	428.0	424.2	421.8	418.1	419.3
30°	3004.4	2413.6	984.2	455.1	423.1	409.4	402.1	399.6	397.1	393.5	393.5
32.5°	3132.6	2419.8	789.3	420.5	397.1	381.1	373.7	371.2	368.8	365.0	365.0
35°	3325.0	2455.6	631.5	391.0	366.3	350.2	342.9	342.9	339.2	334.3	333.0
37.5°	3639.5	2546.8	506.9	362.6	336.7	321.9	313.3	310.8	307.1	299.7	298.5
40°	4010.8	2688.7	426.7	334.3	309.6	294.8	287.4	280.0	270.1	262.7	261.4
42.5°	4477.0	2834.1	370.0	305.8	283.7	270.1	261.4	249.2	234.4	224.5	223.2
45°	4962.9	2967.4	331.8	280.0	259.0	247.9	238.0	218.3	199.8	187.5	186.2
47.5°	5325.5	2992.1	300.9	255.3	238.0	226.9	213.4	188.7	164.0	152.9	149.2
50°	5496.9	2872.4	268.9	230.6	217.0	204.8	187.5	159.1	131.9	118.4	116.0
52.5°	5557.3	2665.2	243.0	208.4	196.1	181.3	160.4	128.3	103.6	90.0	88.8
55°	5532.7	2403.7	219.6	187.5	171.4	154.2	133.2	102.3	76.5	65.4	62.9
57.5°	5403.2	2070.7	196.1	166.5	146.7	129.5	106.1	76.5	51.8	42.0	40.7
60°	5054.2	1616.9	172.7	143.1	124.6	106.1	83.9	54.3	32.1	23.4	23.4
62.5°	4464.7	1200.0	150.5	119.6	104.8	85.1	59.2	34.5	17.3	12.4	11.1
65°	3730.8	885.5	125.8	101.2	87.5	66.6	42.0	21.0	8.6	3.7	2.5
67.5°	2603.6	546.4	104.8	82.6	71.6	48.1	25.9	8.6	3.7	0.0	0.0
70°	1182.7	260.3	80.2	62.9	54.3	34.5	13.5	4.9	2.5	0.0	0.0
72.5°	367.5	136.9	56.8	45.6	37.0	22.2	7.4	3.7	2.5	0.0	0.0
75°	170.2	87.5	35.8	24.7	21.0	11.1	4.9	2.5	1.3	0.0	0.0
77.5°	127.0	67.8	21.0	13.5	11.1	7.4	3.7	2.5	1.3	0.0	0.0
80°	111.0	34.5	12.4	8.6	6.2	4.9	2.5	1.3	0.0	0.0	0.0
82.5°	99.9	17.3	7.4	4.9	3.7	2.5	1.3	1.3	0.0	0.0	0.0
85°	54.3	9.9	4.9	3.7	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	9.9	4.9	3.7	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)