

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: P458842

Luminaire Tested: **GALN-SA3D-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458842
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-SA3D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA 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: 17696 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

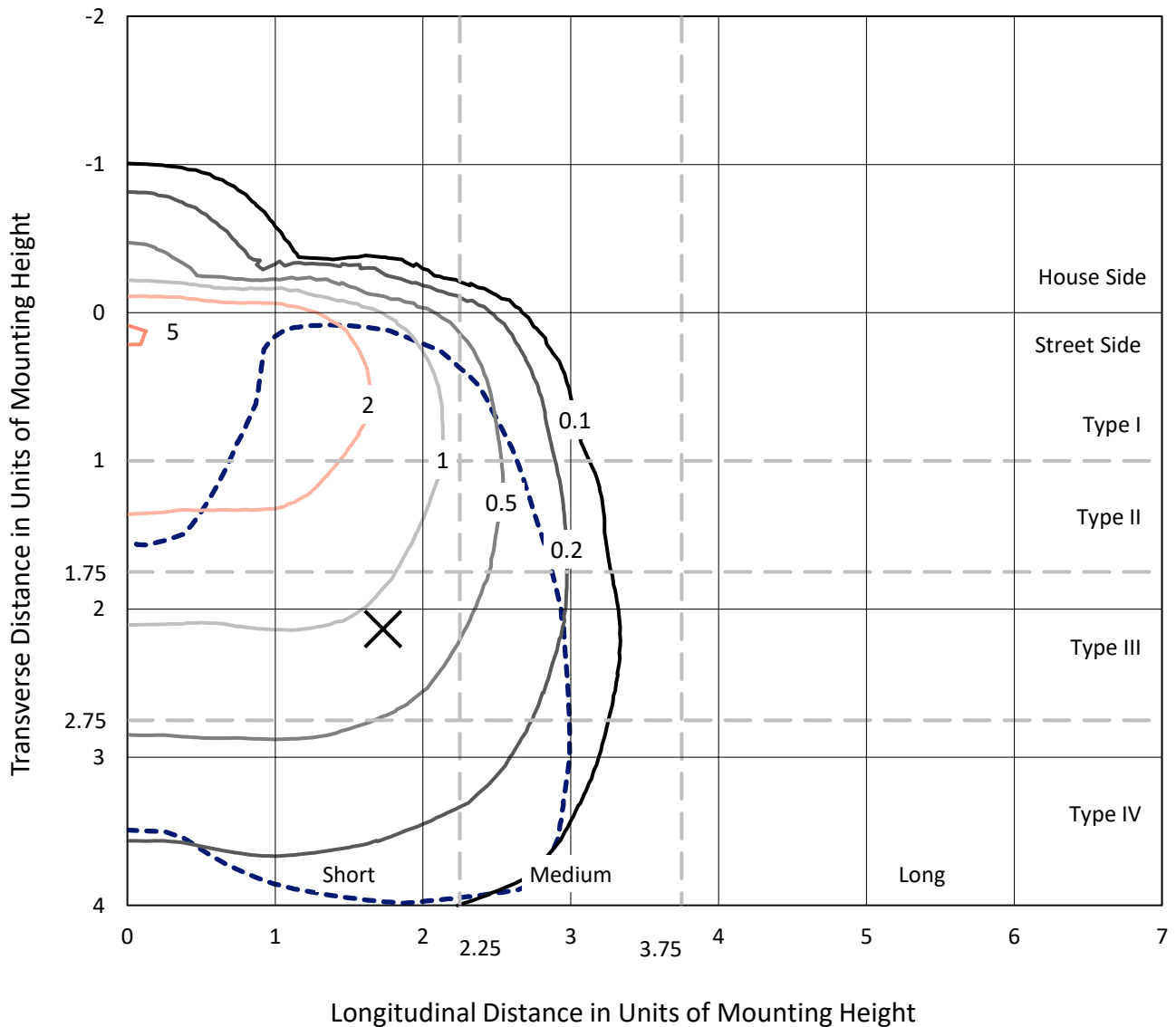
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

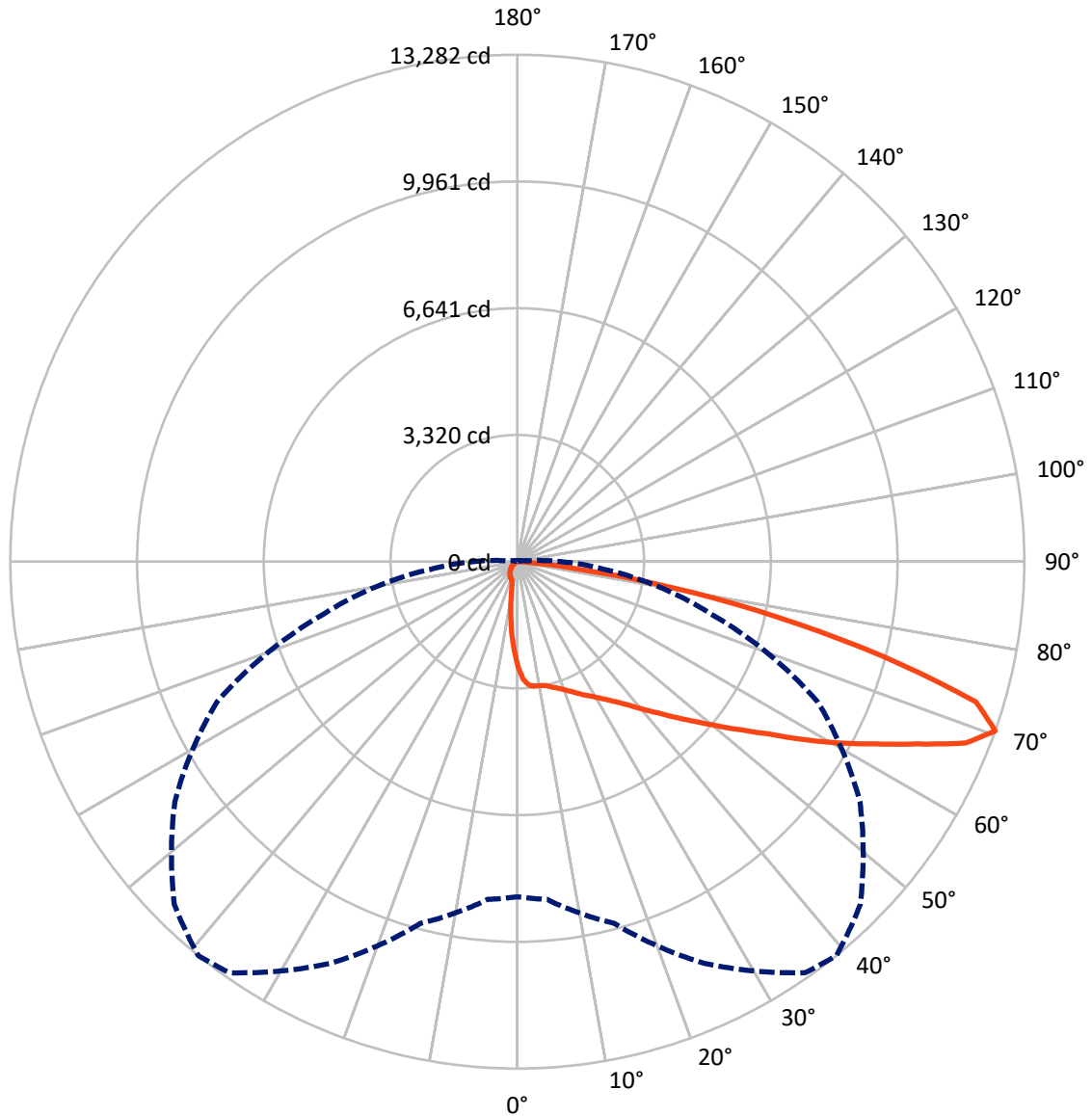
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1153.9	0.0	1153.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16542.1	0.0	16542.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	17696.0	0.0	17696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	1.3
10°-20°	612.0	3.5
20°-30°	1025.3	5.8
30°-40°	1590.1	9.0
40°-50°	2519.9	14.2
50°-60°	3693.8	20.9
60°-70°	4734.5	26.8
70°-80°	2975.0	16.8
80°-90°	309.9	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°	17696.0	100.0
0°-180°	17696.0	100.0

Coefficient of Utilization



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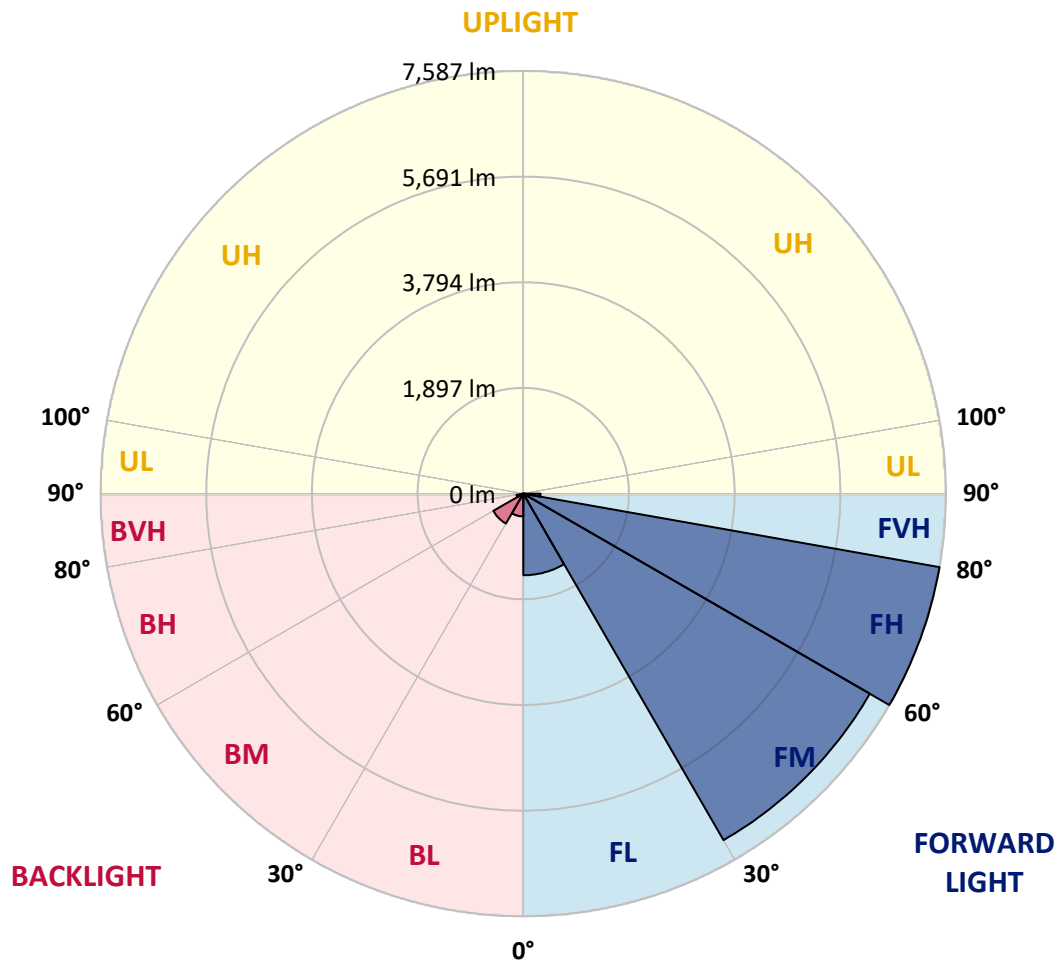
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.3	8.3			
FM (30°-60°)	7182.8	40.6			
FH (60°-80°)	7587.5	42.9			G4/12000
FVH (80°-90°)	307.6	1.7			G3/500
BL (0°-30°)	408.6	2.3	B1/500		
BM (30°-60°)	621.0	3.5	B1/1000		
BH (60°-80°)	122.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.3	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°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	3190.5	3179.8	3165.5	3148.8	3101.3	3093.0	3064.4	3003.8	2931.2	2871.8	2789.7
5°	3341.5	3347.4	3336.7	3307.0	3272.5	3252.3	3216.6	3122.7	3028.7	2908.6	2774.3
7.5°	3376.0	3387.9	3374.8	3346.2	3312.9	3291.5	3263.0	3182.1	3072.7	2936.0	2751.7
10°	3372.4	3386.7	3378.3	3352.2	3324.8	3304.6	3273.7	3209.5	3121.5	2977.6	2758.8
12.5°	3366.5	3385.5	3384.3	3371.2	3348.6	3333.2	3314.1	3257.1	3175.0	3038.3	2798.0
15°	3349.8	3373.6	3395.0	3405.7	3406.9	3406.9	3383.1	3322.5	3244.0	3117.9	2849.2
17.5°	3356.9	3384.3	3437.8	3468.7	3490.1	3487.7	3462.8	3397.4	3310.6	3200.0	2902.7
20°	3400.9	3437.8	3512.7	3574.6	3596.0	3588.8	3555.5	3479.4	3380.7	3270.1	2955.0
22.5°	3509.2	3542.4	3636.4	3708.9	3724.4	3705.4	3657.8	3554.3	3465.2	3346.2	3018.0
25°	3670.9	3710.1	3796.9	3851.6	3851.6	3840.9	3774.3	3653.0	3560.3	3452.1	3100.1
27.5°	3867.1	3900.4	3986.0	4034.8	4006.2	3975.3	3908.7	3762.4	3673.3	3585.3	3198.8
30°	4065.7	4087.1	4177.4	4198.9	4169.1	4129.9	4058.5	3912.3	3833.8	3766.0	3341.5
32.5°	4253.6	4299.9	4374.8	4370.1	4329.7	4310.6	4245.2	4089.5	4045.5	4038.3	3541.3
35°	4441.4	4477.1	4543.7	4560.4	4524.7	4521.1	4473.5	4358.2	4359.4	4405.8	3852.8
37.5°	4603.2	4635.3	4713.8	4750.6	4757.7	4775.6	4756.6	4680.5	4788.7	4915.9	4265.4
40°	4738.7	4783.9	4883.8	4948.0	5021.7	5087.1	5090.7	5107.4	5325.0	5543.8	4804.1
42.5°	4844.6	4907.6	5052.7	5171.6	5340.4	5423.7	5490.3	5581.8	5948.1	6275.1	5439.1
45°	4982.5	5055.0	5235.8	5422.5	5686.5	5823.2	5916.0	6160.9	6680.6	7126.5	6090.8
47.5°	5210.8	5248.9	5433.2	5705.5	6052.7	6247.7	6428.5	6799.5	7466.6	7866.2	6633.0
50°	5504.5	5529.5	5668.6	6046.8	6496.3	6753.1	7082.5	7518.9	8282.4	8479.8	6939.8
52.5°	5829.2	5837.5	5942.1	6422.5	6993.3	7316.8	7685.4	8224.1	8947.1	8917.4	7143.2
55°	6206.1	6194.2	6283.4	6830.4	7582.0	7951.8	8381.1	8945.9	9523.8	9227.7	7259.7
57.5°	6637.8	6605.7	6692.5	7371.5	8335.9	8778.2	9214.6	9569.0	9970.9	9488.1	7315.6
60°	7089.7	7025.4	7128.9	7979.1	9224.2	9643.9	10006.6	10101.7	10441.8	9695.1	7219.3
62.5°	7450.0	7451.2	7643.8	8626.0	10137.4	10504.9	10697.5	10783.1	10847.3	9649.9	6712.7
65°	8012.4	8031.5	8339.4	9523.8	11194.6	11513.3	11645.2	11367.0	10865.2	9088.6	5951.6
67.5°	8592.7	8653.4	9217.0	10760.5	12415.8	12672.7	12502.6	11480.0	10380.0	7807.9	4512.8
70°	8781.8	8881.7	9810.4	11612.0	13148.3	13281.5	12706.0	10953.2	8677.2	5220.3	2271.3
72.5°	8046.9	8208.6	9469.1	11301.6	12681.0	12565.6	11368.2	9186.1	5516.4	1982.3	693.3
75°	5674.6	5745.9	7869.7	9375.2	10199.3	9872.2	8647.4	5921.9	2268.9	556.5	237.8
77.5°	2930.0	2895.6	4680.5	6220.4	7274.0	6935.1	5662.7	3065.6	859.7	231.9	147.5
80°	1515.0	1539.9	2025.1	3259.4	4440.2	4085.9	3019.2	1421.0	457.8	128.4	113.0
82.5°	849.0	796.7	1164.2	1423.4	2076.2	1627.9	1158.2	1006.0	199.8	77.3	107.0
85°	154.6	161.7	638.6	769.4	720.6	457.8	373.4	671.9	58.3	42.8	74.9
87.5°	2.4	2.4	123.7	221.2	140.3	64.2	117.7	96.3	11.9	16.6	13.1
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°	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2	2761.2
2.5°	2748.1	2702.9	2618.5	2535.2	2429.4	2342.6	2284.3	2223.7	2161.9	2166.6	2180.9
5°	2700.5	2622.1	2455.6	2279.6	2110.7	1958.5	1808.7	1674.3	1619.6	1569.7	1572.0
7.5°	2653.0	2542.4	2298.6	2022.7	1767.1	1507.8	1319.9	1165.4	1083.3	1021.5	1003.6
10°	2631.6	2485.3	2154.7	1775.4	1412.7	1129.7	888.3	762.2	664.7	633.8	642.1
12.5°	2641.1	2456.8	2025.1	1551.8	1120.2	787.2	618.4	554.1	532.7	529.2	526.8
15°	2658.9	2436.5	1897.9	1304.5	822.9	585.1	519.7	507.8	505.4	503.0	504.2
17.5°	2682.7	2418.7	1762.3	1072.6	631.4	511.3	492.3	486.4	485.2	485.2	485.2
20°	2706.5	2398.5	1611.3	865.7	526.8	482.8	470.9	467.3	466.1	466.1	465.0
22.5°	2733.8	2380.7	1457.9	680.2	485.2	462.6	451.9	449.5	448.3	447.1	447.1
25°	2773.1	2358.1	1295.0	556.5	459.0	443.5	432.8	430.5	429.3	424.5	425.7
27.5°	2825.4	2341.4	1127.3	480.4	435.2	419.8	412.6	409.1	406.7	403.1	404.3
30°	2896.7	2327.1	948.9	438.8	407.9	394.8	387.7	385.3	382.9	379.3	379.3
32.5°	3020.4	2333.1	761.0	405.5	382.9	367.4	360.3	357.9	355.6	352.0	352.0
35°	3205.9	2367.6	608.8	377.0	353.2	337.7	330.6	330.6	327.0	322.3	321.1
37.5°	3509.2	2455.6	488.7	349.6	324.6	310.4	302.0	299.7	296.1	289.0	287.8
40°	3867.1	2592.3	411.4	322.3	298.5	284.2	277.1	269.9	260.4	253.3	252.1
42.5°	4316.6	2732.6	356.7	294.9	273.5	260.4	252.1	240.2	225.9	216.4	215.2
45°	4785.1	2861.1	319.9	269.9	249.7	239.0	229.5	210.5	192.6	180.7	179.6
47.5°	5134.7	2884.9	290.2	246.2	229.5	218.8	205.7	181.9	158.2	147.5	143.9
50°	5300.0	2769.5	259.2	222.4	209.3	197.4	180.7	153.4	127.2	114.2	111.8
52.5°	5358.3	2569.7	234.3	201.0	189.1	174.8	154.6	123.7	99.9	86.8	85.6
55°	5334.5	2317.6	211.7	180.7	165.3	148.6	128.4	98.7	73.7	63.0	60.6
57.5°	5209.6	1996.6	189.1	160.5	141.5	124.9	102.3	73.7	49.9	40.4	39.2
60°	4873.1	1559.0	166.5	137.9	120.1	102.3	80.9	52.3	30.9	22.6	22.6
62.5°	4304.7	1157.0	145.1	115.3	101.1	82.1	57.1	33.3	16.6	11.9	10.7
65°	3597.1	853.8	121.3	97.5	84.4	64.2	40.4	20.2	8.3	3.6	2.4
67.5°	2510.3	526.8	101.1	79.7	69.0	46.4	25.0	8.3	3.6	0.0	0.0
70°	1140.4	250.9	77.3	60.6	52.3	33.3	13.1	4.8	2.4	0.0	0.0
72.5°	354.4	132.0	54.7	44.0	35.7	21.4	7.1	3.6	2.4	0.0	0.0
75°	164.1	84.4	34.5	23.8	20.2	10.7	4.8	2.4	1.2	0.0	0.0
77.5°	122.5	65.4	20.2	13.1	10.7	7.1	3.6	2.4	1.2	0.0	0.0
80°	107.0	33.3	11.9	8.3	5.9	4.8	2.4	1.2	0.0	0.0	0.0
82.5°	96.3	16.6	7.1	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
85°	52.3	9.5	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	3.6	2.4	2.4	1.2	1.2	1.2	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)