

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: P452607

Luminaire Tested: **GALN-SA3C-750-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452607
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-SA3C-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA 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: 17264 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

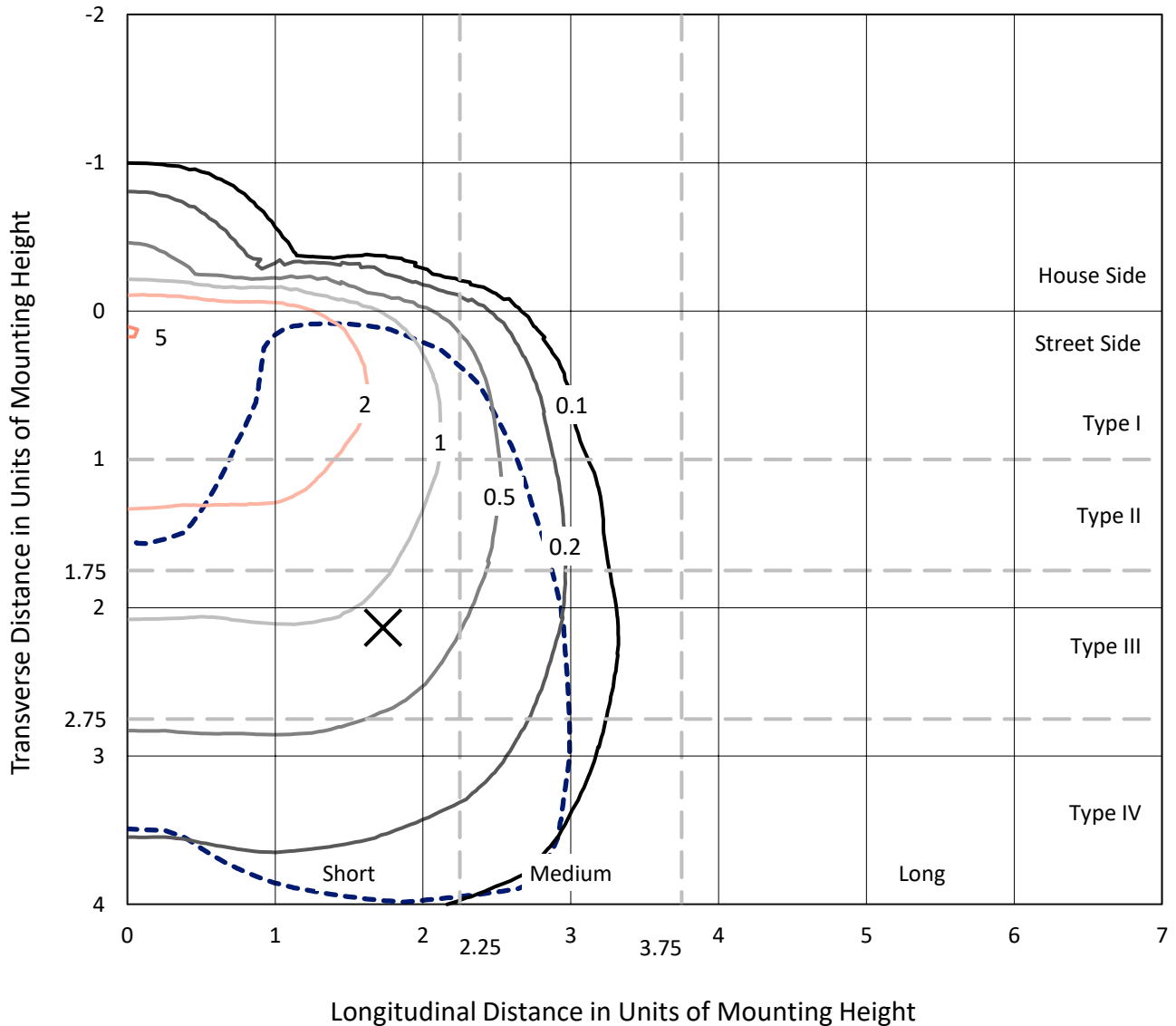
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

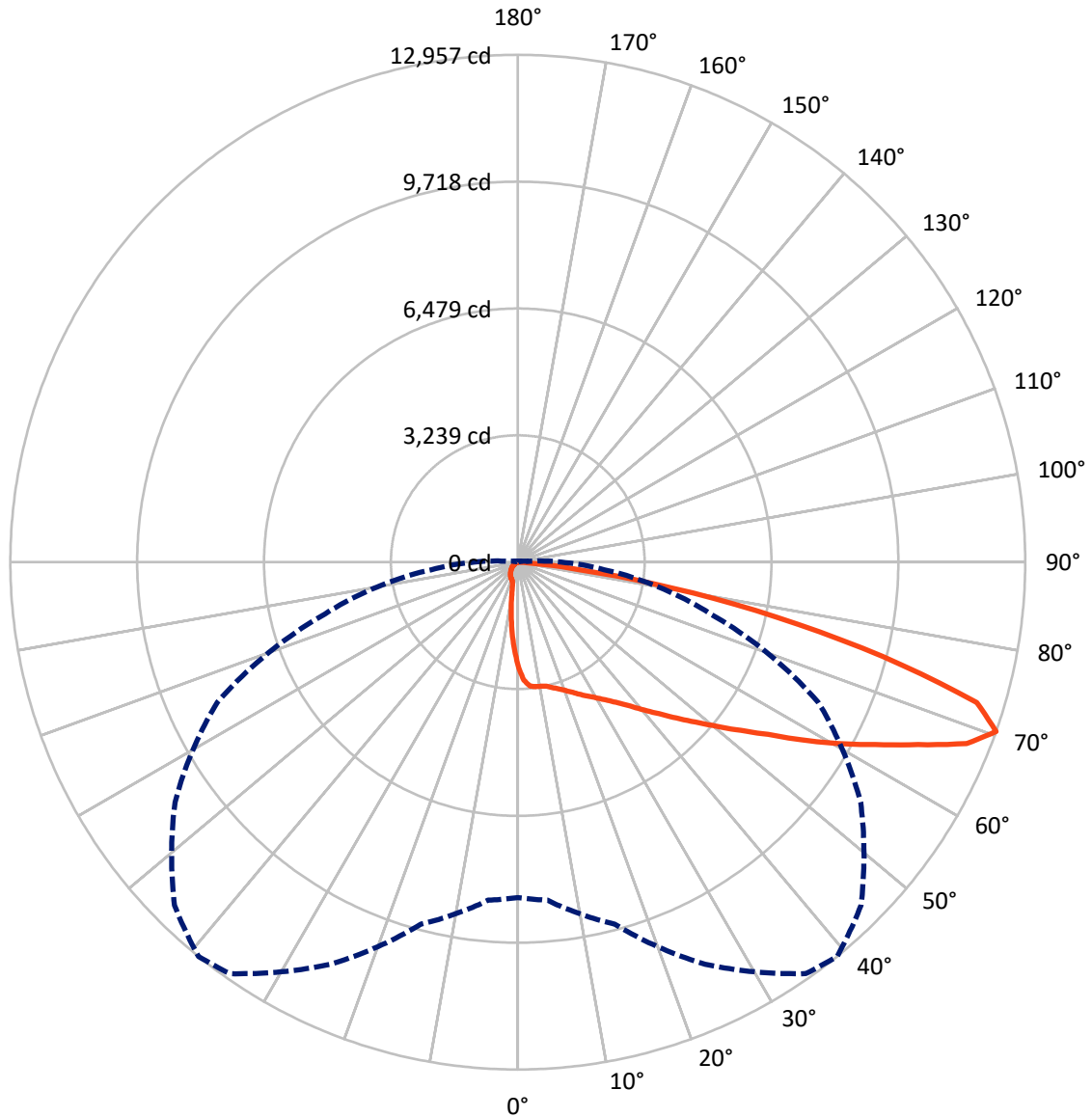
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1125.7	0.0	1125.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	16138.3	0.0	16138.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	17264.0	0.0	17264.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	1.3
10°-20°	597.1	3.5
20°-30°	1000.3	5.8
30°-40°	1551.3	9.0
40°-50°	2458.3	14.2
50°-60°	3603.6	20.9
60°-70°	4618.9	26.8
70°-80°	2902.4	16.8
80°-90°	302.4	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°	17264.0	100.0
0°-180°	17264.0	100.0



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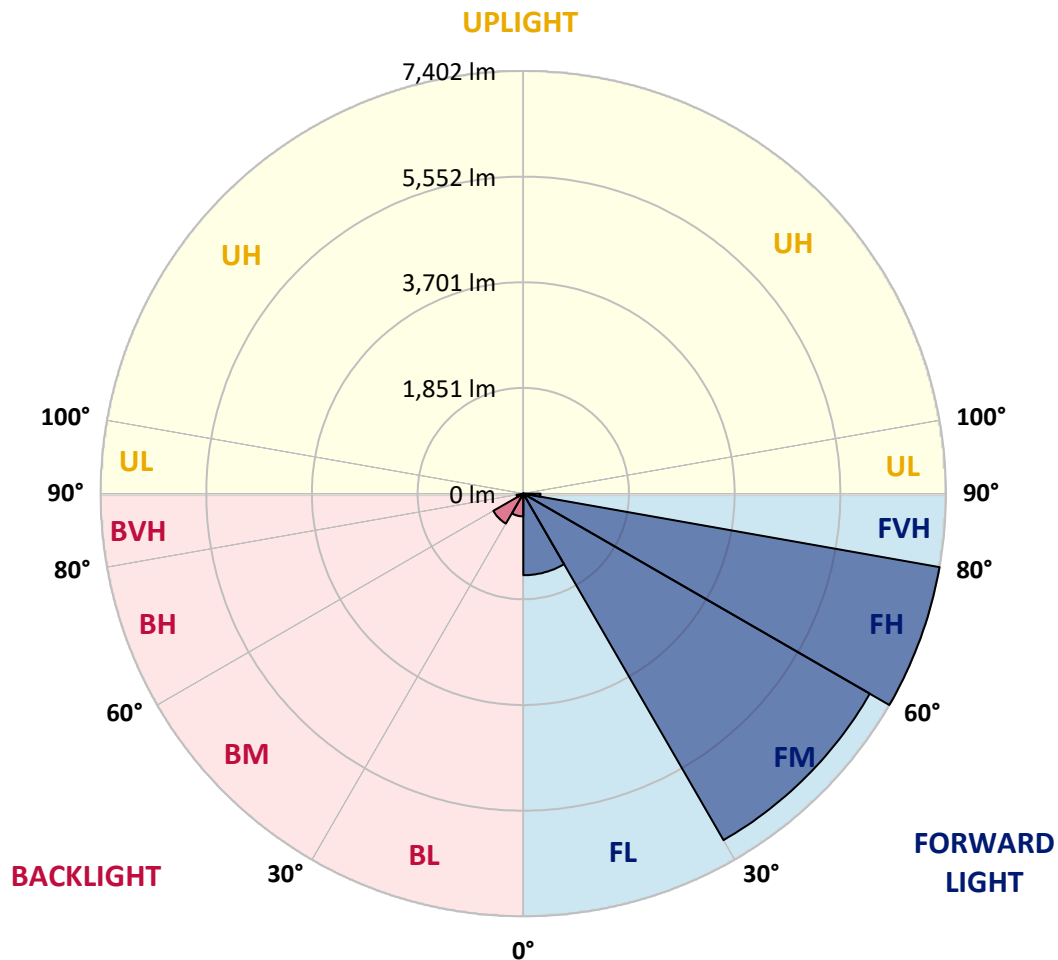
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.5	8.3			
FM (30°-60°)	7007.4	40.6			
FH (60°-80°)	7402.2	42.9			G3/7500
FVH (80°-90°)	300.1	1.7			G3/500
BL (0°-30°)	398.6	2.3	B1/500		
BM (30°-60°)	605.8	3.5	B1/1000		
BH (60°-80°)	119.0	0.7	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8
2.5°	3112.6	3102.1	3088.2	3072.0	3025.6	3017.4	2989.6	2930.4	2859.7	2801.7	2721.6
5°	3259.9	3265.7	3255.3	3226.3	3192.6	3172.9	3138.1	3046.4	2954.8	2837.6	2706.5
7.5°	3293.6	3305.2	3292.4	3264.6	3232.1	3211.2	3183.3	3104.5	2997.7	2864.3	2684.5
10°	3290.1	3304.0	3295.9	3270.4	3243.7	3223.9	3193.8	3131.1	3045.3	2904.9	2691.5
12.5°	3284.3	3302.8	3301.7	3288.9	3266.9	3251.8	3233.2	3177.5	3097.5	2964.1	2729.7
15°	3268.0	3291.2	3312.1	3322.6	3323.7	3323.7	3300.5	3241.3	3164.8	3041.8	2779.6
17.5°	3275.0	3301.7	3353.9	3384.0	3404.9	3402.6	3378.2	3314.4	3229.7	3121.9	2831.8
20°	3317.9	3353.9	3427.0	3487.3	3508.2	3501.2	3468.7	3394.5	3298.2	3190.3	2882.9
22.5°	3423.5	3456.0	3547.6	3618.4	3633.5	3614.9	3568.5	3467.6	3380.6	3264.6	2944.4
25°	3581.3	3619.5	3704.2	3757.6	3757.6	3747.2	3682.2	3563.9	3473.4	3367.8	3024.4
27.5°	3772.7	3805.2	3888.7	3936.3	3908.4	3878.2	3813.3	3670.6	3583.6	3497.7	3120.7
30°	3966.4	3987.3	4075.5	4096.3	4067.3	4029.1	3959.5	3816.8	3740.2	3674.1	3259.9
32.5°	4149.7	4195.0	4268.0	4263.4	4224.0	4205.4	4141.6	3989.6	3946.7	3939.7	3454.8
35°	4333.0	4367.8	4432.8	4449.0	4414.2	4410.7	4364.3	4251.8	4253.0	4298.2	3758.8
37.5°	4490.8	4522.1	4598.7	4634.6	4641.6	4659.0	4640.4	4566.2	4671.8	4795.9	4161.3
40°	4623.0	4667.1	4764.6	4827.2	4899.1	4963.0	4966.4	4982.7	5195.0	5408.4	4686.8
42.5°	4726.3	4787.8	4929.3	5045.3	5210.1	5291.3	5356.2	5445.6	5802.9	6121.9	5306.3
45°	4860.9	4931.6	5108.0	5290.1	5547.6	5681.1	5771.5	6010.5	6517.5	6952.5	5942.1
47.5°	5083.6	5120.7	5300.5	5566.2	5905.0	6095.2	6271.6	6633.5	7284.3	7674.1	6471.1
50°	5370.2	5394.5	5530.2	5899.2	6337.7	6588.3	6909.6	7335.4	8080.2	8272.7	6770.4
52.5°	5686.9	5695.0	5797.1	6265.8	6822.6	7138.2	7497.8	8023.3	8728.7	8699.7	6968.8
55°	6054.6	6043.0	6130.0	6663.7	7396.9	7757.7	8176.5	8727.5	9291.3	9002.5	7082.5
57.5°	6475.7	6444.4	6529.1	7191.5	8132.4	8563.9	8989.7	9335.4	9727.5	9256.5	7137.0
60°	6916.6	6853.9	6954.9	7784.3	8999.0	9408.5	9762.3	9855.1	10186.9	9458.4	7043.0
62.5°	7268.1	7269.3	7457.2	8415.4	9889.9	10248.4	10436.4	10519.9	10582.5	9414.3	6548.8
65°	7816.8	7835.4	8135.9	9291.3	10921.3	11232.2	11361.0	11089.5	10599.9	8866.7	5806.4
67.5°	8383.0	8442.1	8992.0	10497.8	12112.7	12363.3	12197.4	11199.7	10126.6	7617.3	4402.6
70°	8567.4	8664.9	9570.9	11328.5	12827.3	12957.3	12395.8	10685.8	8465.3	5092.9	2215.8
72.5°	7850.5	8008.2	9238.0	11025.7	12371.4	12258.9	11090.7	8961.9	5381.8	1933.9	676.3
75°	5536.0	5605.7	7677.6	9146.3	9950.3	9631.2	8436.3	5777.3	2213.5	542.9	232.0
77.5°	2858.5	2824.9	4566.2	6068.5	7096.4	6765.8	5524.4	2990.8	838.8	226.2	143.9
80°	1478.0	1502.3	1975.7	3179.9	4331.9	3986.1	2945.5	1386.3	446.6	125.3	110.2
82.5°	828.3	777.3	1135.7	1388.7	2025.6	1588.2	1129.9	981.5	194.9	75.4	104.4
85°	150.8	157.8	623.0	750.6	703.0	446.6	364.3	655.5	56.8	41.8	73.1
87.5°	2.3	2.3	120.7	215.8	136.9	62.6	114.9	94.0	11.6	16.2	12.8
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°	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8
2.5°	2681.0	2636.9	2554.6	2473.4	2370.1	2285.4	2228.6	2169.4	2109.1	2113.7	2127.6
5°	2634.6	2558.0	2395.6	2223.9	2059.2	1910.7	1764.5	1633.4	1580.1	1531.3	1533.7
7.5°	2588.2	2480.3	2242.5	1973.3	1723.9	1471.0	1287.7	1136.9	1056.9	996.5	979.1
10°	2567.3	2424.6	2102.1	1732.0	1378.2	1102.1	866.6	743.6	648.5	618.3	626.5
12.5°	2576.6	2396.8	1975.7	1513.9	1092.8	768.0	603.3	540.6	519.7	516.2	513.9
15°	2594.0	2377.1	1851.5	1272.6	802.8	570.8	507.0	495.4	493.0	490.7	491.9
17.5°	2617.2	2359.7	1719.3	1046.4	616.0	498.8	480.3	474.5	473.3	473.3	473.3
20°	2640.4	2339.9	1571.9	844.6	513.9	471.0	459.4	455.9	454.8	454.8	453.6
22.5°	2667.1	2322.5	1422.3	663.6	473.3	451.3	440.8	438.5	437.4	436.2	436.2
25°	2705.4	2300.5	1263.4	542.9	447.8	432.7	422.3	420.0	418.8	414.2	415.3
27.5°	2756.4	2284.3	1099.8	468.7	424.6	409.5	402.6	399.1	396.8	393.3	394.4
30°	2826.0	2270.3	925.8	428.1	397.9	385.2	378.2	375.9	373.6	370.1	370.1
32.5°	2946.7	2276.1	742.5	395.6	373.6	358.5	351.5	349.2	346.9	343.4	343.4
35°	3127.7	2309.8	594.0	367.8	344.6	329.5	322.5	322.5	319.0	314.4	313.2
37.5°	3423.5	2395.6	476.8	341.1	316.7	302.8	294.7	292.3	288.9	281.9	280.7
40°	3772.7	2529.0	401.4	314.4	291.2	277.3	270.3	263.3	254.1	247.1	245.9
42.5°	4211.2	2665.9	348.0	287.7	266.8	254.1	245.9	234.3	220.4	211.1	210.0
45°	4668.3	2791.2	312.1	263.3	243.6	233.2	223.9	205.3	187.9	176.3	175.2
47.5°	5009.4	2814.4	283.1	240.1	223.9	213.5	200.7	177.5	154.3	143.9	140.4
50°	5170.6	2701.9	252.9	216.9	204.2	192.6	176.3	149.7	124.1	111.4	109.1
52.5°	5227.5	2507.0	228.5	196.1	184.5	170.5	150.8	120.7	97.4	84.7	83.5
55°	5204.3	2261.1	206.5	176.3	161.3	145.0	125.3	96.3	71.9	61.5	59.2
57.5°	5082.4	1947.8	184.5	156.6	138.1	121.8	99.8	71.9	48.7	39.4	38.3
60°	4754.1	1520.9	162.4	134.6	117.2	99.8	78.9	51.0	30.2	22.0	22.0
62.5°	4199.6	1128.8	141.5	112.5	98.6	80.0	55.7	32.5	16.2	11.6	10.4
65°	3509.3	833.0	118.3	95.1	82.4	62.6	39.4	19.7	8.1	3.5	2.3
67.5°	2449.0	513.9	98.6	77.7	67.3	45.2	24.4	8.1	3.5	0.0	0.0
70°	1112.5	244.8	75.4	59.2	51.0	32.5	12.8	4.6	2.3	0.0	0.0
72.5°	345.7	128.8	53.4	42.9	34.8	20.9	7.0	3.5	2.3	0.0	0.0
75°	160.1	82.4	33.6	23.2	19.7	10.4	4.6	2.3	1.2	0.0	0.0
77.5°	119.5	63.8	19.7	12.8	10.4	7.0	3.5	2.3	1.2	0.0	0.0
80°	104.4	32.5	11.6	8.1	5.8	4.6	2.3	1.2	0.0	0.0	0.0
82.5°	94.0	16.2	7.0	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0
85°	51.0	9.3	4.6	3.5	2.3	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	9.3	4.6	3.5	2.3	2.3	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)