

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: P652280

Luminaire Tested: **GALN-SA3B-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11816.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

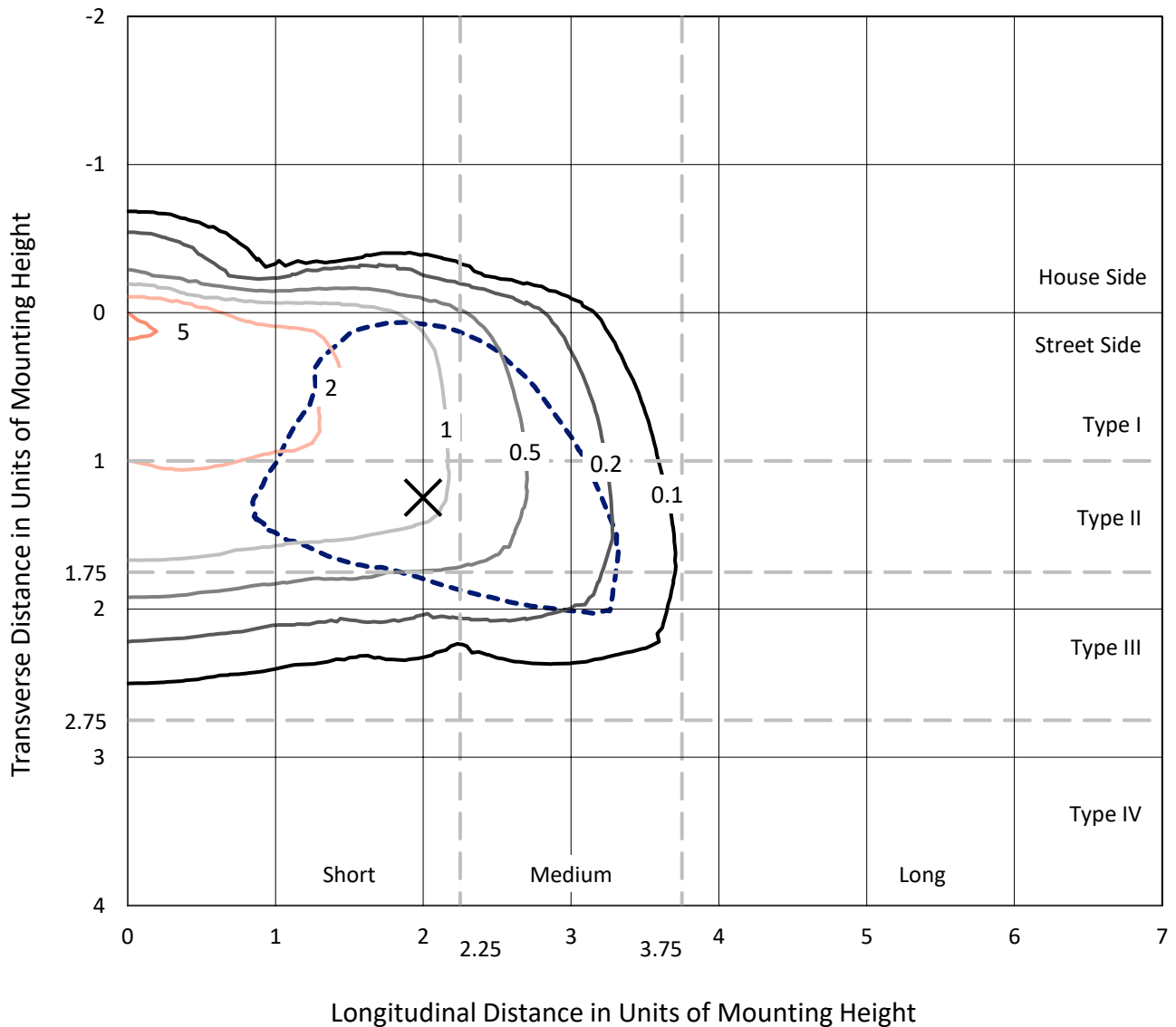
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

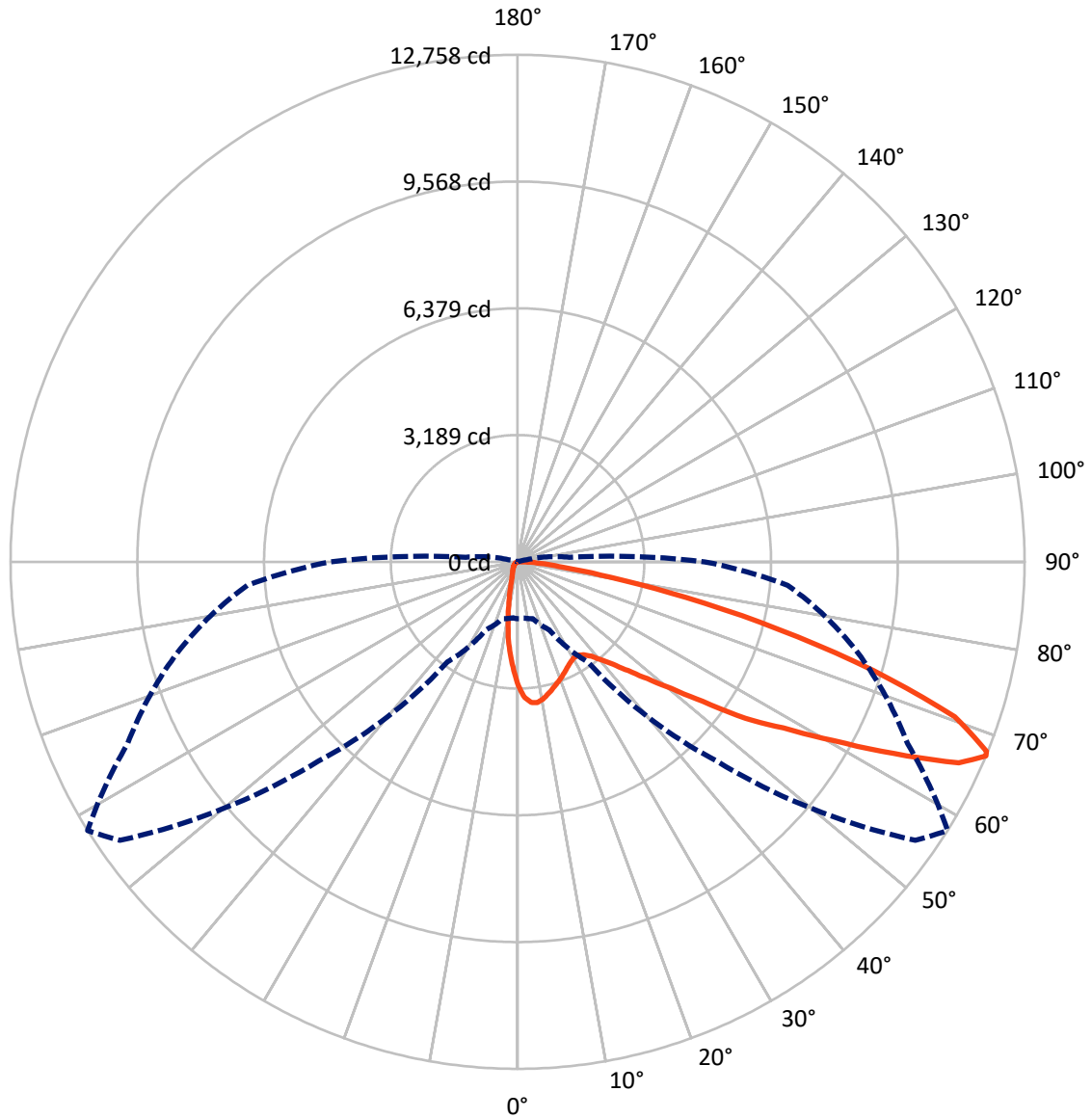
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA3B-840-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	852.8	0.0	852.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10964.1	0.0	10964.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	11816.9	0.0	11816.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	2.2
10°-20°	549.0	4.6
20°-30°	743.9	6.3
30°-40°	1031.8	8.7
40°-50°	1645.6	13.9
50°-60°	2844.6	24.1
60°-70°	3249.4	27.5
70°-80°	1354.7	11.5
80°-90°	143.6	1.2
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°	11816.9	100.0
0°-180°	11816.9	100.0

Coefficient of Utilization

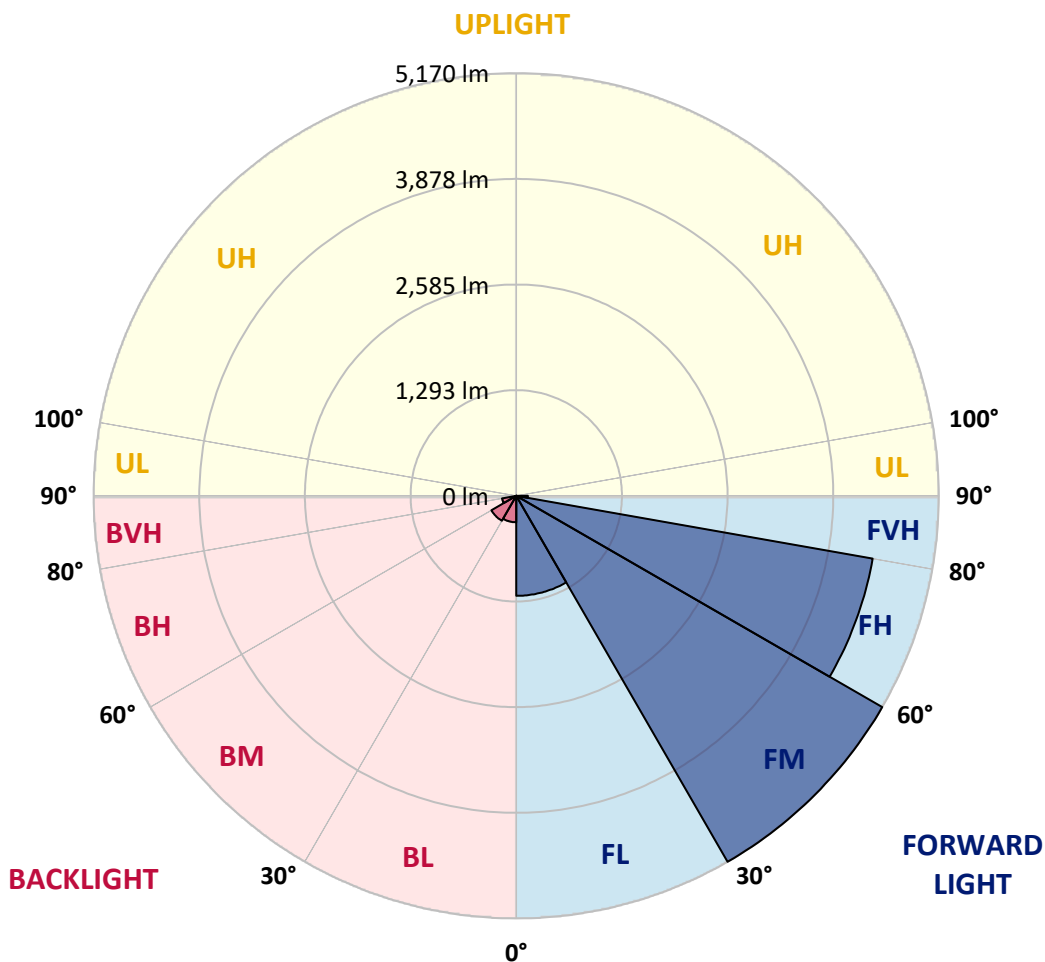


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.3	10.4			
FM (30°-60°)	5170.4	43.8			
FH (60°-80°)	4427.8	37.5			G2/5000
FVH (80°-90°)	142.6	1.2			G2/225
BL (0°-30°)	323.8	2.7	B1/500		
BM (30°-60°)	351.6	3.0	B1/1000		
BH (60°-80°)	176.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2
 Type III Short





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CATALOG NUMBER: GALN-SA3B-840-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3635.6	3641.1	3620.6	3603.9	3561.3	3515.5	3454.7	3422.4	3367.1	3271.5	3165.7
5°	3720.8	3728.0	3724.8	3720.8	3704.3	3660.0	3582.7	3554.2	3472.9	3317.3	3126.2
7.5°	3531.4	3557.3	3560.5	3591.3	3620.6	3624.5	3595.3	3574.0	3499.0	3316.6	3055.9
10°	3280.2	3297.6	3322.9	3358.4	3428.7	3487.1	3515.5	3512.4	3469.0	3292.1	2973.9
12.5°	3026.8	3036.2	3074.9	3135.7	3221.8	3321.3	3397.1	3412.1	3412.9	3262.8	2905.2
15°	2808.8	2804.8	2834.8	2905.2	3025.9	3150.7	3286.5	3310.3	3348.1	3234.4	2841.2
17.5°	2622.4	2642.9	2647.7	2725.1	2836.4	2998.3	3171.2	3213.1	3288.9	3209.9	2788.3
20°	2507.1	2518.2	2528.5	2571.9	2672.2	2842.7	3063.1	3120.7	3233.6	3187.8	2729.0
22.5°	2473.2	2480.3	2471.6	2485.1	2556.1	2707.7	2945.4	3022.0	3180.7	3167.3	2680.9
25°	2499.3	2506.3	2485.8	2470.0	2494.5	2597.9	2831.7	2924.8	3138.1	3163.3	2644.5
27.5°	2562.4	2575.8	2547.4	2519.0	2504.8	2538.7	2742.5	2850.7	3108.8	3182.3	2628.0
30°	2661.1	2669.0	2647.7	2613.0	2580.6	2546.6	2695.9	2799.4	3100.9	3226.5	2626.4
32.5°	2768.5	2785.1	2773.3	2750.3	2708.5	2628.0	2709.3	2800.9	3119.9	3290.5	2646.1
35°	2901.2	2920.1	2931.2	2926.4	2872.8	2772.4	2794.6	2871.9	3170.5	3408.2	2699.8
37.5°	3031.5	3048.0	3110.4	3131.8	3084.4	2989.6	2960.4	3011.7	3281.8	3562.1	2796.9
40°	3180.7	3202.9	3290.5	3371.8	3348.9	3249.5	3195.7	3238.4	3452.4	3794.3	2980.9
42.5°	3323.6	3363.2	3496.5	3640.3	3661.6	3550.3	3514.7	3528.9	3705.0	4128.3	3237.6
45°	3526.6	3563.7	3735.8	3930.9	4031.2	3944.3	3908.0	3905.6	4051.7	4598.2	3653.7
47.5°	3819.6	3852.7	4055.6	4248.3	4426.8	4438.6	4369.9	4393.6	4487.6	5147.8	4163.9
50°	4178.8	4257.0	4390.4	4591.0	4829.5	5022.2	5043.5	5011.9	5092.5	5784.2	4776.6
52.5°	4700.8	4730.8	4853.2	5018.2	5297.8	5624.7	5878.2	5834.8	5809.5	6390.7	5395.7
55°	5090.1	5130.4	5320.7	5547.3	5957.1	6388.3	6937.9	6952.9	6633.9	6973.4	6001.4
57.5°	4972.4	5034.1	5322.3	5777.9	6678.9	7467.0	7876.0	7886.2	7396.7	7539.6	6685.2
60°	4368.3	4397.6	4810.5	5418.6	6740.4	8635.6	9206.5	9123.7	8172.9	8172.9	7289.3
62.5°	3097.8	3143.6	3478.4	4373.1	6087.4	9041.5	10800.0	10628.7	9242.1	8778.5	7649.4
65°	1979.6	1935.5	2157.3	2760.6	4535.0	8442.2	12187.5	12197.8	10248.1	9021.0	7452.8
67°	1434.0	1416.7	1480.6	1887.3	3074.9	7096.6	12216.7	12757.6	10826.1	8867.8	6824.2
67.5°	1311.6	1325.0	1371.6	1702.5	2793.8	6457.8	12084.1	12724.4	10956.4	8775.4	6596.7
70°	994.1	971.3	1021.8	1204.2	1674.9	4073.8	10395.0	11670.3	10794.6	7858.6	5271.0
72.5°	731.2	728.8	799.1	984.7	1289.5	2169.9	7803.3	9357.4	8818.8	5984.0	3318.9
75°	493.5	515.6	627.8	822.8	1168.7	1407.2	5319.9	6788.6	6122.1	3397.9	1356.6
77.5°	281.1	282.7	404.3	660.9	1049.5	1132.3	3152.3	4324.9	3240.7	1130.0	402.8
80°	121.6	133.5	200.6	480.1	870.2	1002.9	1807.5	2376.8	1310.8	239.3	130.3
82.5°	45.0	52.9	88.5	295.4	634.9	825.9	1092.1	1134.8	444.6	84.5	81.3
85°	0.0	1.6	32.4	138.2	330.8	368.8	729.7	672.8	196.6	40.3	52.9
87.5°	0.0	0.0	0.0	14.2	43.4	137.4	226.6	252.7	47.3	14.2	12.6
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°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3108.8	3057.5	2928.8	2800.1	2704.6	2624.8	2504.8	2439.2	2404.5	2353.2	2356.3
5°	3030.7	2926.4	2699.8	2465.3	2275.7	2091.0	1869.9	1780.6	1705.6	1663.0	1634.6
7.5°	2914.6	2760.6	2425.0	2112.3	1820.9	1498.0	1255.5	1093.6	984.7	944.4	905.8
10°	2787.5	2583.0	2146.2	1712.8	1308.4	975.2	769.9	621.4	568.5	519.6	524.4
12.5°	2669.8	2421.1	1890.4	1351.9	916.8	619.9	483.2	422.4	405.1	399.6	399.6
15°	2573.5	2266.3	1615.6	1016.3	628.6	445.4	386.9	370.4	364.1	362.5	362.5
17.5°	2470.9	2119.4	1367.7	750.9	457.2	372.7	353.0	342.0	339.5	338.0	338.0
20°	2379.2	1971.7	1132.3	559.1	369.5	335.6	322.9	315.9	313.5	311.9	312.7
22.5°	2292.4	1840.7	911.2	422.4	325.3	305.6	292.9	285.9	281.1	277.2	278.0
25°	2214.9	1714.3	732.8	345.9	292.9	275.6	263.0	252.7	242.5	237.7	236.9
27.5°	2160.5	1603.8	571.0	296.1	263.7	244.8	229.0	216.4	202.9	195.9	194.3
30°	2115.5	1491.7	451.7	261.4	234.6	216.4	196.6	178.5	164.2	157.1	154.0
32.5°	2086.3	1385.0	356.2	233.0	210.1	188.0	165.8	147.7	131.9	124.8	123.2
35°	2081.6	1295.8	291.4	209.2	188.0	164.2	141.4	121.6	108.2	101.1	99.5
37.5°	2115.5	1227.1	244.0	190.3	169.8	143.7	118.4	100.2	88.5	82.9	82.2
40°	2206.3	1183.7	211.6	174.5	153.2	124.8	101.1	85.3	73.4	67.9	67.9
42.5°	2379.2	1185.3	190.3	159.5	136.6	106.6	86.0	71.1	60.8	56.1	54.5
45°	2649.3	1239.0	172.2	144.5	120.9	92.4	73.4	58.4	48.2	44.2	44.2
47.5°	3010.9	1345.6	156.3	129.5	106.6	79.0	62.4	47.3	38.7	34.7	34.7
50°	3483.9	1516.9	142.9	116.9	94.8	67.9	50.5	38.7	30.0	26.8	26.1
52.5°	3978.3	1728.5	127.2	105.8	81.3	57.6	41.0	30.0	22.9	20.5	19.8
55°	4523.9	1935.5	112.1	94.8	66.4	48.2	32.4	23.7	16.6	14.2	14.2
57.5°	5074.3	2138.4	93.9	79.0	52.1	35.6	25.2	17.4	11.0	8.7	8.7
60°	5540.2	2203.9	79.7	64.0	39.4	25.2	18.2	11.0	6.3	4.0	4.0
62.5°	5604.2	1982.8	67.1	48.9	28.4	17.4	9.5	6.3	2.4	1.6	1.6
65°	5256.8	1610.9	56.1	37.1	18.9	8.7	4.0	2.4	0.8	0.0	0.0
67°	4710.3	1306.1	45.8	27.7	13.5	5.6	2.4	0.8	0.0	0.0	0.0
67.5°	4570.5	1245.3	44.2	26.1	11.9	4.7	1.6	0.8	0.0	0.0	0.0
70°	3586.6	932.6	31.6	15.8	7.1	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	2229.2	527.5	22.9	9.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0
75°	842.6	184.8	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	262.1	70.3	9.5	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.5	26.8	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.5	11.0	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.0	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	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)