

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: P648320

Luminaire Tested: **GALN-SA3B-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648320
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-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 11001.9 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

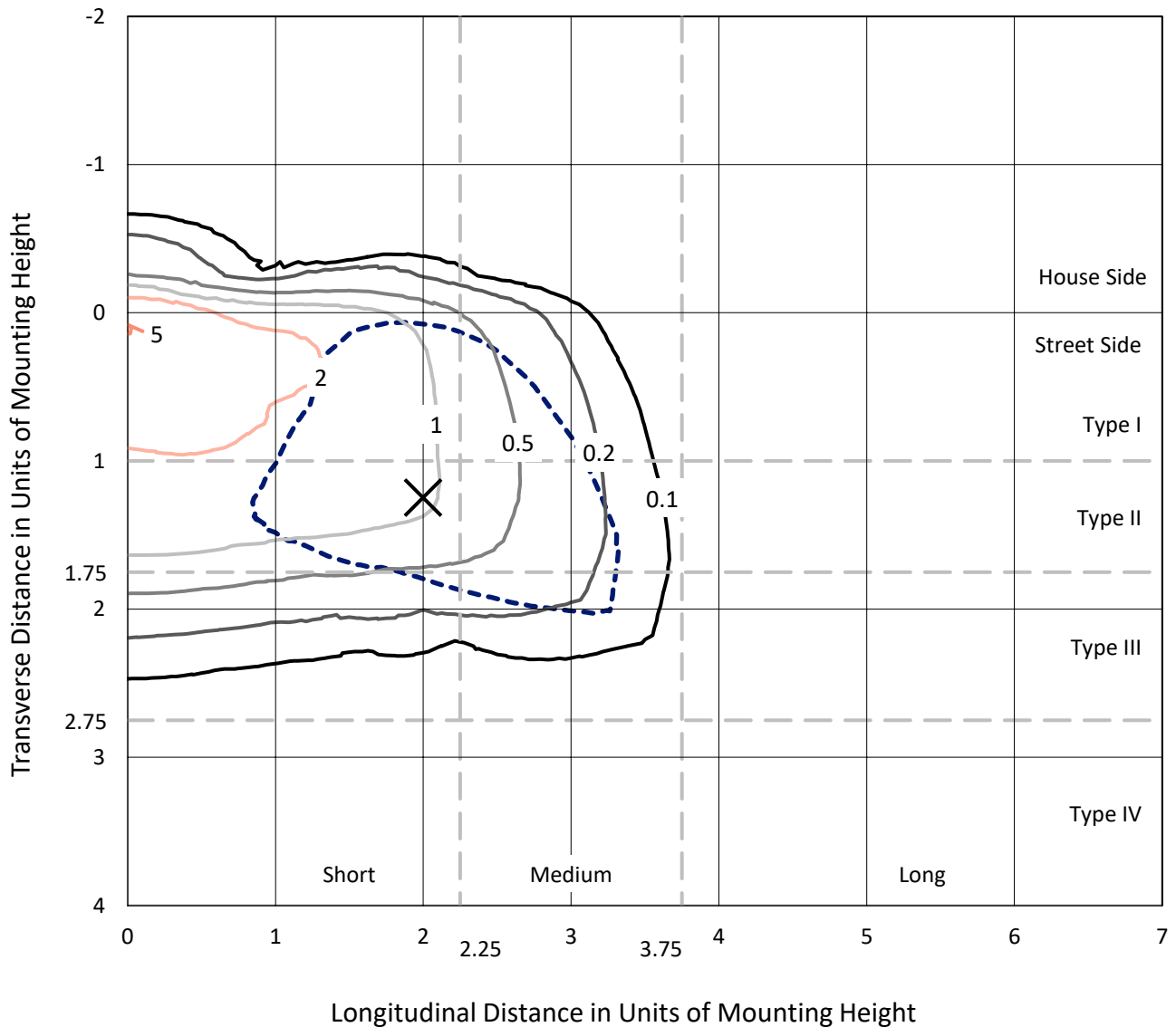
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

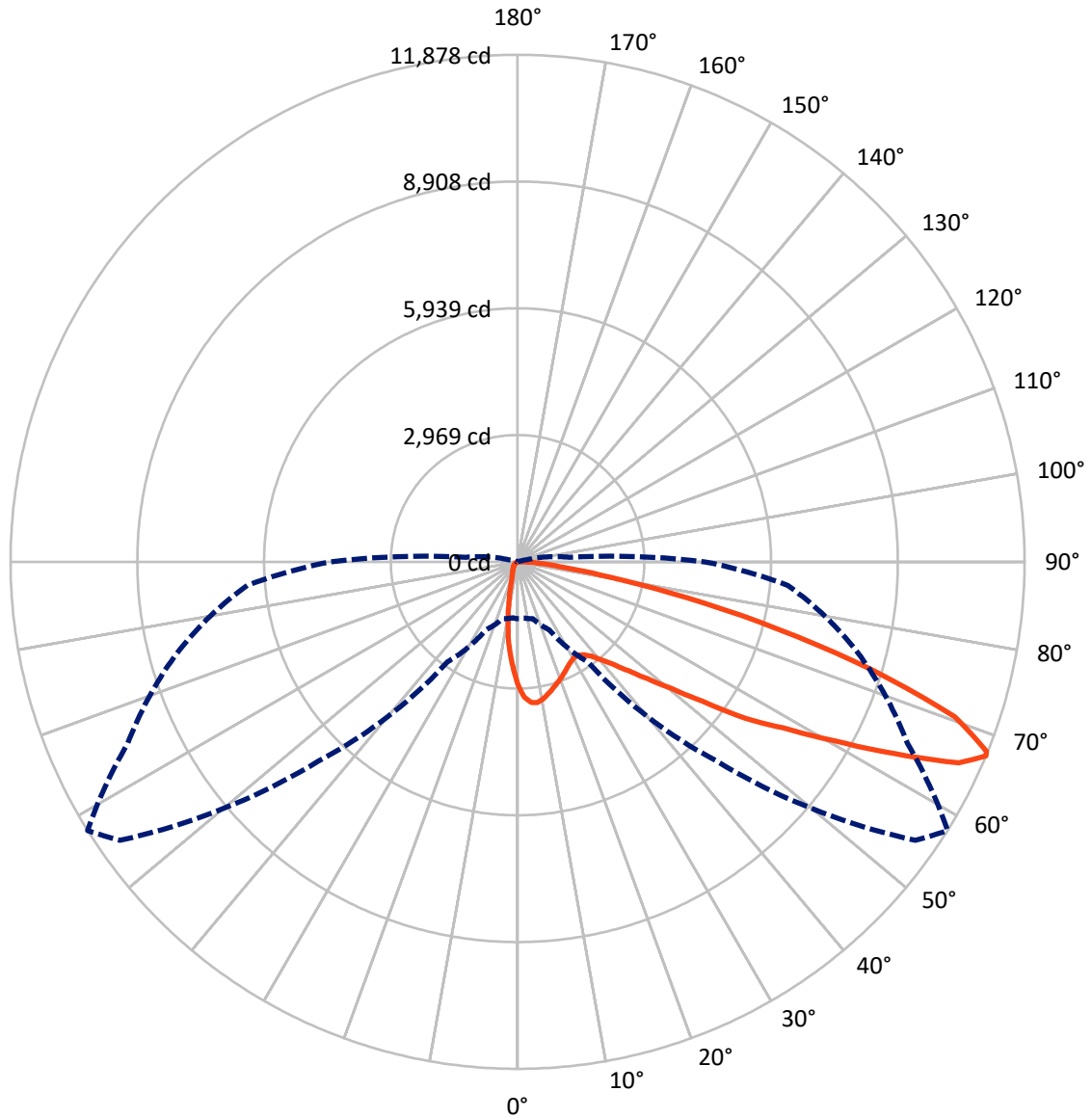
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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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	794.0	0.0	794.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10208.0	0.0	10208.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	11001.9	0.0	11001.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.7	2.2
10°-20°	511.1	4.6
20°-30°	692.6	6.3
30°-40°	960.6	8.7
40°-50°	1532.1	13.9
50°-60°	2648.4	24.1
60°-70°	3025.3	27.5
70°-80°	1261.3	11.5
80°-90°	133.7	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°	11001.9	100.0
0°-180°	11001.9	100.0



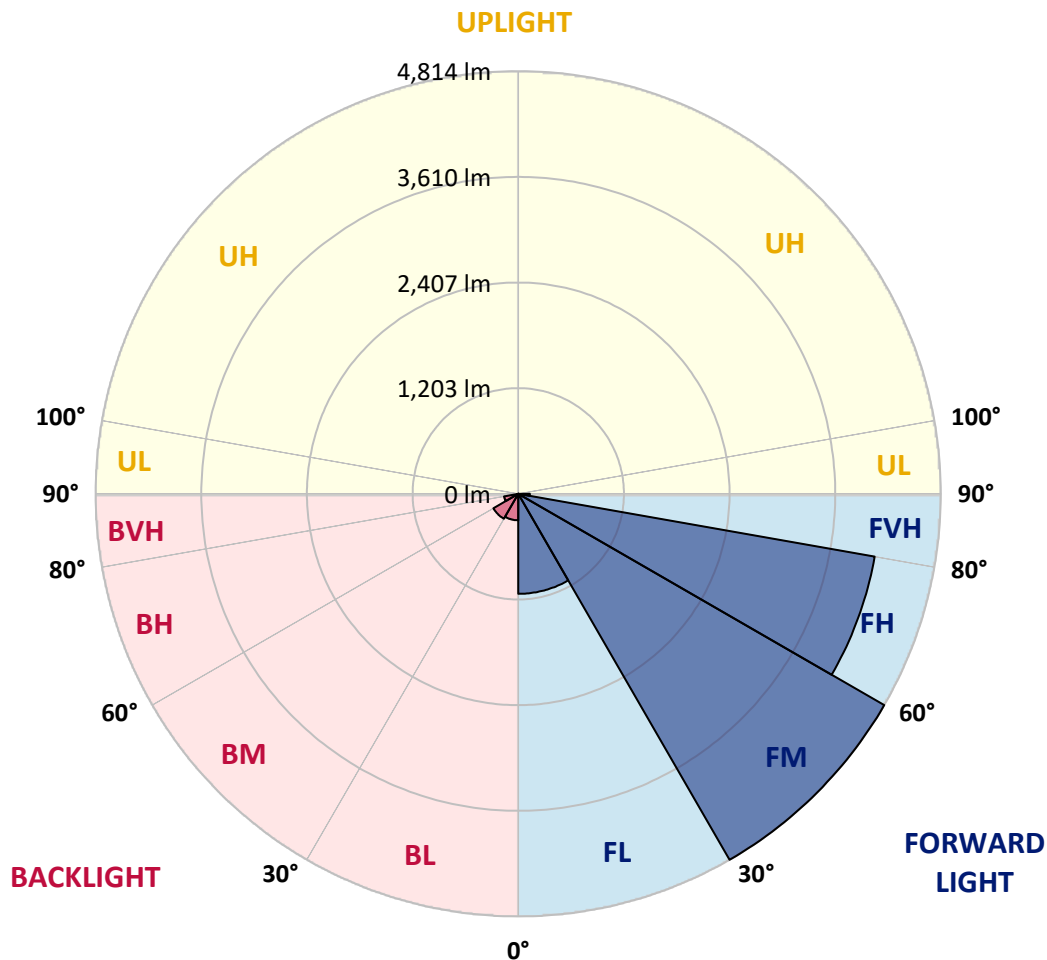
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.0	10.4			
FM (30°-60°)	4813.8	43.8			
FH (60°-80°)	4122.4	37.5			G2/5000
FVH (80°-90°)	132.8	1.2			G2/225
BL (0°-30°)	301.5	2.7	B1/500		
BM (30°-60°)	327.4	3.0	B1/1000		
BH (60°-80°)	164.1	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5
2.5°	3384.8	3390.0	3370.9	3355.4	3315.7	3273.1	3216.5	3186.3	3134.9	3045.9	2947.4
5°	3464.2	3470.9	3467.9	3464.2	3448.8	3407.6	3335.6	3309.1	3233.4	3088.5	2910.6
7.5°	3287.8	3312.0	3315.0	3343.6	3370.9	3374.6	3347.3	3327.5	3257.7	3087.8	2845.2
10°	3054.0	3070.1	3093.7	3126.8	3192.2	3246.6	3273.1	3270.1	3229.7	3065.1	2768.8
12.5°	2818.0	2826.8	2862.8	2919.4	2999.6	3092.2	3162.8	3176.8	3177.5	3037.8	2704.8
15°	2615.1	2611.4	2639.3	2704.8	2817.2	2933.4	3059.9	3082.0	3117.2	3011.3	2645.2
17.5°	2441.6	2460.7	2465.1	2537.2	2640.8	2791.6	2952.5	2991.5	3062.1	2988.6	2596.0
20°	2334.2	2344.5	2354.1	2394.5	2487.9	2646.7	2851.8	2905.5	3010.6	2968.0	2540.8
22.5°	2302.6	2309.2	2301.2	2313.7	2379.9	2520.9	2742.3	2813.6	2961.4	2948.9	2496.0
25°	2326.9	2333.5	2314.4	2299.7	2322.5	2418.8	2636.4	2723.1	2921.7	2945.2	2462.1
27.5°	2385.7	2398.2	2371.7	2345.2	2332.0	2363.6	2553.4	2654.1	2894.4	2962.8	2446.7
30°	2477.6	2484.9	2465.1	2432.8	2402.6	2371.0	2510.0	2606.3	2887.1	3004.0	2445.2
32.5°	2577.6	2593.1	2582.0	2560.6	2521.7	2446.7	2522.4	2607.7	2904.8	3063.6	2463.6
35°	2701.1	2718.7	2729.1	2724.6	2674.6	2581.2	2601.8	2673.9	2951.8	3173.1	2513.6
37.5°	2822.4	2837.8	2895.9	2915.8	2871.7	2783.4	2756.2	2804.0	3055.5	3316.5	2604.0
40°	2961.4	2982.0	3063.6	3139.3	3118.0	3025.4	2975.3	3015.0	3214.3	3532.6	2775.3
42.5°	3094.4	3131.2	3255.4	3389.2	3409.1	3305.4	3272.3	3285.5	3449.5	3843.6	3014.3
45°	3283.4	3318.0	3478.2	3659.8	3753.2	3672.3	3638.4	3636.3	3772.3	4281.1	3401.7
47.5°	3556.2	3587.0	3775.9	3955.3	4121.5	4132.5	4068.5	4090.6	4178.1	4792.7	3876.7
50°	3890.6	3963.4	4087.7	4274.4	4496.5	4675.8	4695.7	4666.3	4741.3	5385.3	4447.2
52.5°	4376.6	4404.5	4518.5	4672.2	4932.4	5236.8	5472.8	5432.4	5408.8	5949.9	5023.6
55°	4739.0	4776.5	4953.7	5164.7	5546.3	5947.7	6459.4	6473.4	6176.4	6492.5	5587.5
57.5°	4629.5	4686.9	4955.2	5379.4	6218.3	6952.0	7332.8	7342.3	6886.6	7019.6	6224.1
60°	4067.1	4094.3	4478.8	5044.9	6275.6	8040.1	8571.6	8494.5	7609.3	7609.3	6786.6
62.5°	2884.2	2926.8	3238.5	4071.5	5667.6	8418.0	10055.2	9895.7	8604.7	8173.1	7121.9
65°	1843.1	1802.0	2008.6	2570.2	4222.2	7860.0	11347.0	11356.6	9541.3	8398.8	6938.8
67°	1335.1	1319.0	1378.5	1757.1	2862.8	6607.2	11374.2	11877.8	10079.5	8256.2	6353.6
67.5°	1221.2	1233.6	1277.0	1585.1	2601.1	6012.4	11250.7	11846.9	10200.8	8170.2	6141.8
70°	925.6	904.3	951.3	1121.2	1559.3	3792.9	9678.1	10865.5	10050.1	7316.7	4907.5
72.5°	680.8	678.5	744.0	916.8	1200.6	2020.3	7265.1	8712.0	8210.6	5571.3	3090.0
75°	459.5	480.1	584.5	766.1	1088.1	1310.1	4953.0	6320.5	5699.9	3163.6	1263.1
77.5°	261.8	263.2	376.4	615.4	977.1	1054.2	2934.9	4026.7	3017.2	1052.0	375.0
80°	113.2	124.3	186.7	447.0	810.2	933.7	1682.8	2212.9	1220.4	222.8	121.3
82.5°	41.9	49.3	82.4	275.0	591.1	769.0	1016.8	1056.5	413.9	78.7	75.7
85°	0.0	1.5	30.1	128.6	308.0	343.3	679.3	626.4	183.1	37.5	49.3
87.5°	0.0	0.0	0.0	13.2	40.4	127.9	211.0	235.3	44.1	13.2	11.7
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°	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5	2916.5
2.5°	2894.4	2846.7	2726.8	2607.0	2518.0	2443.8	2332.0	2271.0	2238.7	2190.9	2193.8
5°	2821.7	2724.6	2513.6	2295.3	2118.8	1946.8	1740.9	1657.8	1588.0	1548.3	1521.8
7.5°	2713.6	2570.2	2257.8	1966.7	1695.4	1394.7	1168.9	1018.2	916.8	879.3	843.3
10°	2595.3	2404.8	1998.2	1594.7	1218.2	908.0	716.8	578.6	529.3	483.7	488.2
12.5°	2485.7	2254.1	1760.0	1258.7	853.5	577.1	449.9	393.3	377.2	372.0	372.0
15°	2396.0	2110.0	1504.2	946.2	585.2	414.7	360.3	344.8	339.0	337.5	337.5
17.5°	2300.5	1973.2	1273.4	699.1	425.6	347.0	328.6	318.4	316.1	314.7	314.7
20°	2215.1	1835.7	1054.2	520.5	344.1	312.5	300.7	294.1	291.9	290.4	291.1
22.5°	2134.3	1713.8	848.4	393.3	302.9	284.5	272.7	266.1	261.8	258.1	258.8
25°	2062.2	1596.1	682.2	322.0	272.7	256.6	244.8	235.3	225.7	221.3	220.6
27.5°	2011.5	1493.2	531.6	275.7	245.5	227.9	213.2	201.5	188.9	182.4	180.9
30°	1969.6	1388.8	420.5	243.4	218.4	201.5	183.1	166.2	152.9	146.3	143.4
32.5°	1942.4	1289.5	331.6	216.9	195.6	175.0	154.4	137.5	122.8	116.2	114.7
35°	1938.0	1206.4	271.3	194.8	175.0	152.9	131.6	113.2	100.7	94.1	92.6
37.5°	1969.6	1142.5	227.1	177.2	158.1	133.8	110.2	93.3	82.4	77.2	76.5
40°	2054.1	1102.1	197.0	162.5	142.7	116.2	94.1	79.4	68.4	63.2	63.2
42.5°	2215.1	1103.6	177.2	148.5	127.2	99.3	80.1	66.2	56.6	52.2	50.7
45°	2466.6	1153.5	160.3	134.5	112.5	86.1	68.4	54.4	44.9	41.2	41.2
47.5°	2803.3	1252.8	145.6	120.6	99.3	73.5	58.1	44.1	36.0	32.3	32.3
50°	3243.7	1412.3	133.0	108.8	88.2	63.2	47.1	36.0	28.0	25.0	24.3
52.5°	3703.9	1609.3	118.4	98.5	75.7	53.6	38.2	28.0	21.3	19.1	18.4
55°	4211.9	1802.0	104.4	88.2	61.8	44.9	30.1	22.1	15.4	13.2	13.2
57.5°	4724.4	1990.9	87.5	73.5	48.5	33.1	23.5	16.2	10.3	8.1	8.1
60°	5158.1	2051.9	74.2	59.6	36.7	23.5	16.9	10.3	5.9	3.7	3.7
62.5°	5217.7	1846.1	62.5	45.6	26.5	16.2	8.8	5.9	2.2	1.5	1.5
65°	4894.2	1499.8	52.2	34.5	17.6	8.1	3.7	2.2	0.7	0.0	0.0
67°	4385.4	1216.0	42.7	25.8	12.5	5.2	2.2	0.7	0.0	0.0	0.0
67.5°	4255.3	1159.4	41.2	24.3	11.0	4.4	1.5	0.7	0.0	0.0	0.0
70°	3339.3	868.3	29.4	14.7	6.7	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	2075.4	491.1	21.3	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
75°	784.5	172.0	14.7	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	244.1	65.5	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.4	25.0	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.7	10.3	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.6	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.5	0.7	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)