

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: P453156

Luminaire Tested: **GALN-SA4A-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453156
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-SA4A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 11892 lumens
Efficiency: N/A
Efficacy: 98.3 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

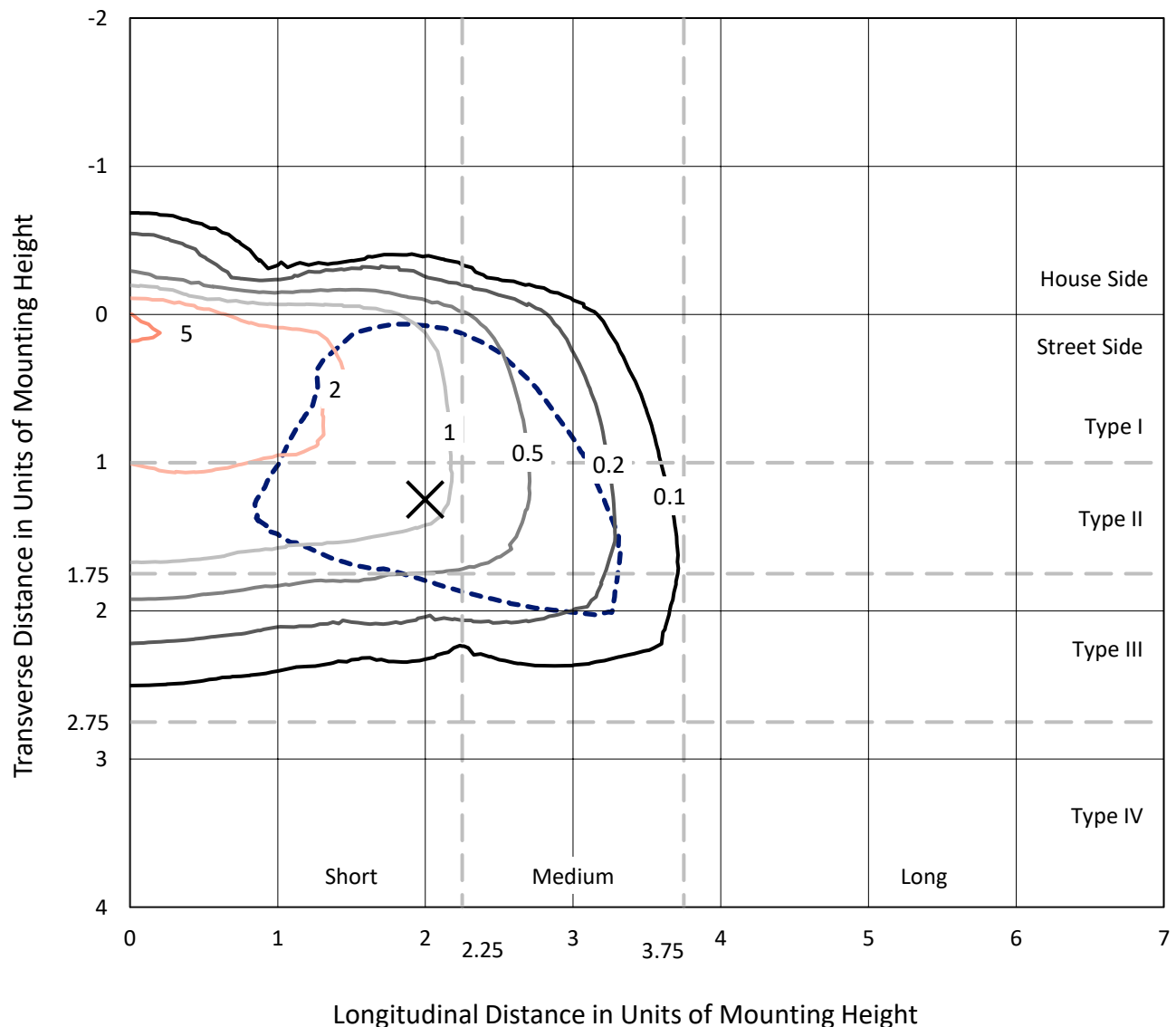


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

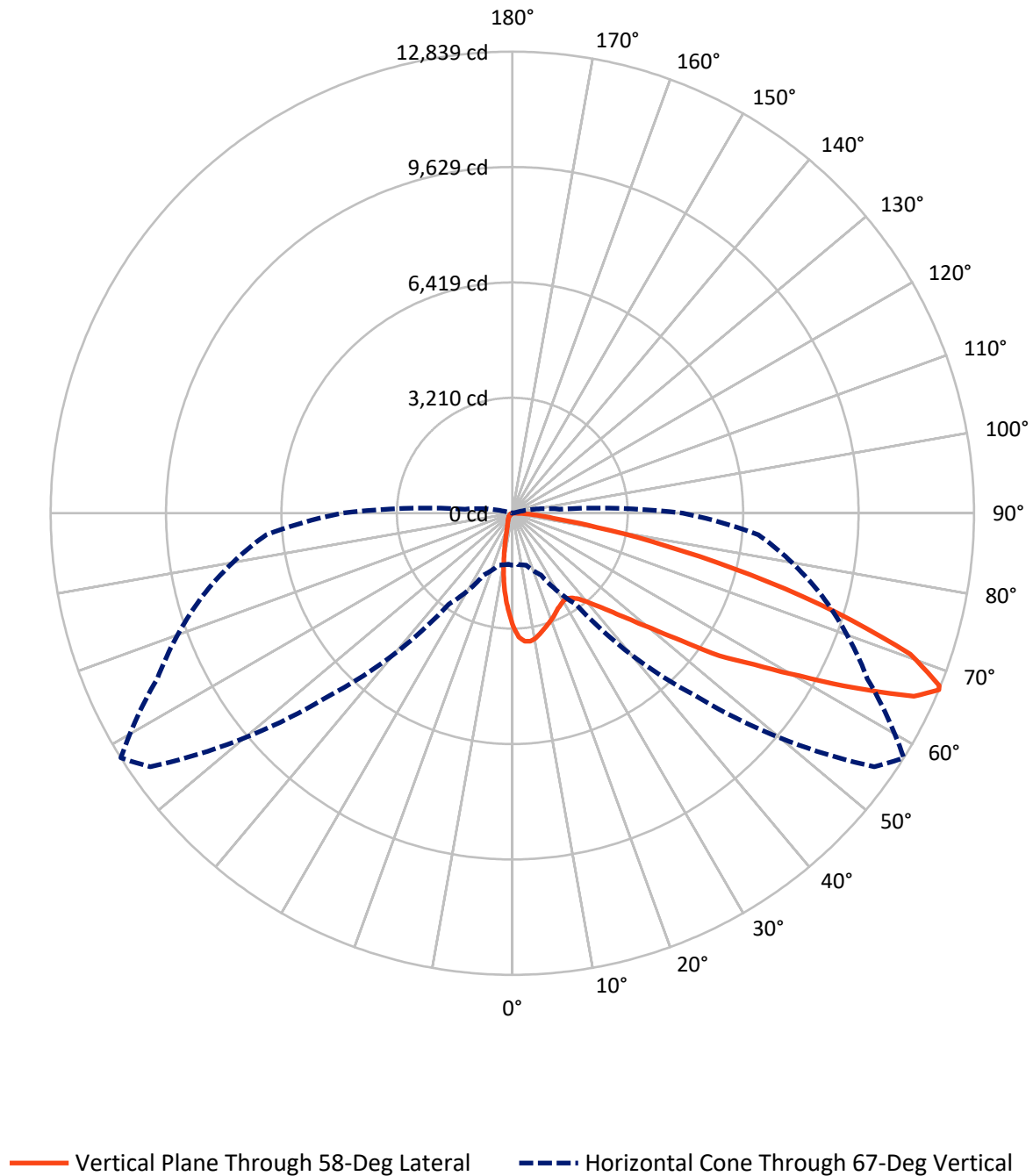


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.2	0.0	858.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11033.8	0.0	11033.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	11892.0	0.0	11892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	2.2
10°-20°	552.5	4.6
20°-30°	748.7	6.3
30°-40°	1038.4	8.7
40°-50°	1656.1	13.9
50°-60°	2862.7	24.1
60°-70°	3270.1	27.5
70°-80°	1363.3	11.5
80°-90°	144.6	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°	11892.0	100.0
0°-180°	11892.0	100.0

Coefficient of Utilization



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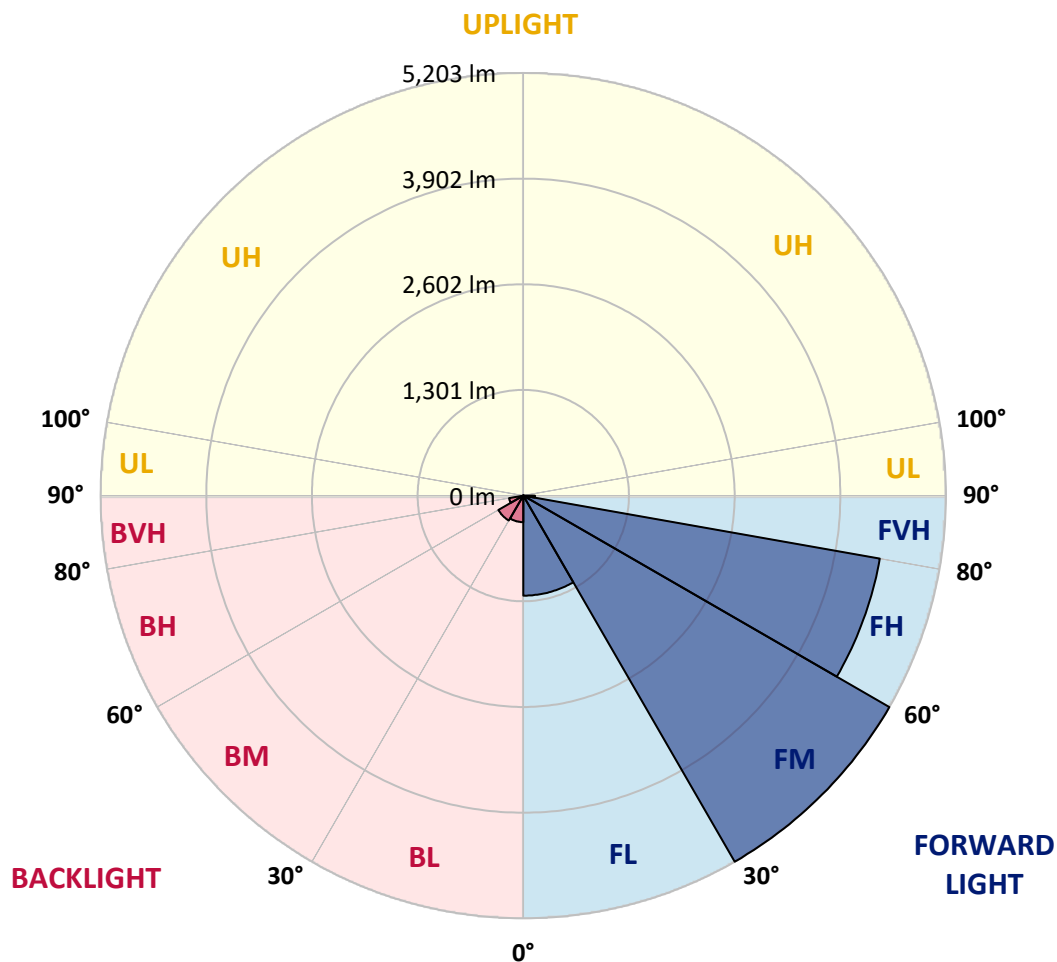
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1231.1	10.4			
FM	(30°-60°)	5203.2	43.8			
FH	(60°-80°)	4455.9	37.5			G2/5000
FVH	(80°-90°)	143.5	1.2			G2/225
BL	(0°-30°)	325.9	2.7	B1/500		
BM	(30°-60°)	353.9	3.0	B1/1000		
BH	(60°-80°)	177.4	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°	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5
2.5°	3658.7	3664.2	3643.6	3626.9	3584.0	3537.9	3476.7	3444.1	3388.5	3292.3	3185.8
5°	3744.5	3751.6	3748.5	3744.5	3727.8	3683.3	3605.4	3576.8	3495.0	3338.4	3146.1
7.5°	3553.8	3580.0	3583.2	3614.2	3643.6	3647.5	3618.1	3596.7	3521.2	3337.6	3075.4
10°	3301.1	3318.5	3344.0	3379.7	3450.5	3509.3	3537.9	3534.7	3491.0	3313.0	2992.7
12.5°	3046.0	3055.5	3094.4	3155.6	3242.3	3342.4	3418.7	3433.8	3434.6	3283.6	2923.6
15°	2826.6	2822.7	2852.9	2923.6	3045.2	3170.7	3307.4	3331.3	3369.4	3255.0	2859.2
17.5°	2639.1	2659.8	2664.5	2742.4	2854.5	3017.4	3191.4	3233.5	3309.8	3230.3	2806.0
20°	2523.1	2534.2	2544.5	2588.2	2689.2	2860.8	3082.5	3140.5	3254.2	3208.1	2746.4
22.5°	2488.9	2496.1	2487.3	2500.8	2572.4	2724.9	2964.1	3041.2	3200.9	3187.4	2697.9
25°	2515.1	2522.3	2501.6	2485.7	2510.4	2614.5	2849.7	2943.5	3158.0	3183.5	2661.4
27.5°	2578.7	2592.2	2563.6	2535.0	2520.7	2554.9	2759.9	2868.8	3128.6	3202.5	2644.7
30°	2678.0	2686.0	2664.5	2629.6	2597.0	2562.8	2713.0	2817.1	3120.7	3247.0	2643.1
32.5°	2786.1	2802.8	2790.9	2767.8	2725.7	2644.7	2726.5	2818.7	3139.7	3311.4	2662.9
35°	2919.6	2938.7	2949.8	2945.1	2891.0	2790.1	2812.3	2890.2	3190.6	3429.8	2717.0
37.5°	3050.7	3067.4	3130.2	3151.7	3104.0	3008.6	2979.2	3030.9	3302.7	3584.8	2814.7
40°	3200.9	3223.2	3311.4	3393.2	3370.2	3270.1	3216.0	3258.9	3474.3	3818.4	2999.9
42.5°	3344.8	3384.5	3518.8	3663.4	3684.9	3572.8	3537.1	3551.4	3728.6	4154.5	3258.2
45°	3549.0	3586.4	3759.6	3955.9	4056.8	3969.4	3932.8	3930.4	4077.5	4627.4	3676.9
47.5°	3843.8	3877.2	4081.4	4275.3	4454.9	4466.8	4397.7	4421.5	4516.1	5180.5	4190.3
50°	4205.4	4284.1	4418.4	4620.2	4860.2	5054.1	5075.6	5043.8	5124.8	5821.0	4807.0
52.5°	4730.7	4760.9	4884.0	5050.1	5331.4	5660.4	5915.5	5871.8	5846.4	6431.3	5430.0
55°	5122.4	5163.0	5354.5	5582.6	5995.0	6428.9	6982.0	6997.1	6676.0	7017.7	6039.5
57.5°	5004.0	5066.0	5356.1	5814.6	6721.3	7514.4	7926.0	7936.4	7443.7	7587.5	6727.7
60°	4396.1	4425.5	4841.1	5453.0	6783.3	8690.5	9265.1	9181.6	8224.8	8224.8	7335.6
62.5°	3117.5	3163.6	3500.5	4400.9	6126.1	9099.0	10868.7	10696.3	9300.8	8834.4	7698.0
65°	1992.2	1947.7	2171.0	2778.2	4563.8	8495.8	12265.0	12275.3	10313.2	9078.3	7500.1
67°	1443.1	1425.6	1490.0	1899.3	3094.4	7141.7	12294.4	12838.7	10894.9	8924.2	6867.5
67.5°	1319.9	1333.5	1380.3	1713.3	2811.5	6498.8	12160.9	12805.3	11026.1	8831.2	6638.7
70°	1000.5	977.4	1028.3	1211.9	1685.5	4099.7	10461.0	11744.4	10863.2	7908.6	5304.4
72.5°	735.9	733.5	804.2	991.0	1297.7	2183.8	7852.9	9416.9	8874.9	6022.0	3340.0
75°	496.7	518.9	631.8	828.0	1176.1	1416.1	5353.7	6831.8	6161.1	3419.5	1365.2
77.5°	282.9	284.5	406.9	665.1	1056.1	1139.6	3172.3	4352.4	3261.3	1137.2	405.3
80°	122.4	134.3	201.8	483.2	875.7	1009.2	1819.0	2392.0	1319.2	240.8	131.1
82.5°	45.3	53.2	89.0	297.2	638.9	831.2	1099.0	1141.9	447.4	85.0	81.9
85°	0.0	1.6	32.6	139.1	333.0	371.1	734.3	677.1	197.9	40.5	53.2
87.5°	0.0	0.0	0.0	14.3	43.7	138.3	228.1	254.3	47.7	14.3	12.7
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°	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5
2.5°	3128.6	3077.0	2947.4	2817.9	2721.7	2641.5	2520.7	2454.7	2419.8	2368.1	2371.3
5°	3049.9	2945.1	2717.0	2481.0	2290.2	2104.3	1881.8	1792.0	1716.5	1673.6	1645.0
7.5°	2933.1	2778.2	2440.4	2125.7	1832.5	1507.5	1263.5	1100.6	991.0	950.4	911.5
10°	2805.2	2599.4	2159.9	1723.6	1316.8	981.4	774.8	625.4	572.2	522.9	527.7
12.5°	2686.8	2436.5	1902.4	1360.5	922.6	623.8	486.3	425.1	407.7	402.1	402.1
15°	2589.8	2280.7	1625.9	1022.7	632.6	448.2	389.4	372.7	366.3	364.8	364.8
17.5°	2486.5	2132.9	1376.4	755.7	460.1	375.1	355.2	344.1	341.7	340.1	340.1
20°	2394.3	1984.3	1139.6	562.6	371.9	337.7	325.0	317.9	315.5	313.9	314.7
22.5°	2306.9	1852.4	917.1	425.1	327.4	307.5	294.8	287.7	282.9	278.9	279.7
25°	2229.1	1725.2	737.5	348.1	294.8	277.3	264.6	254.3	244.0	239.2	238.4
27.5°	2174.2	1614.0	574.5	298.0	265.4	246.3	230.5	217.7	204.2	197.1	195.5
30°	2128.9	1501.1	454.6	263.0	236.0	217.7	197.9	179.6	165.3	158.1	155.0
32.5°	2099.5	1393.9	358.4	234.4	211.4	189.1	166.9	148.6	132.7	125.6	124.0
35°	2094.8	1304.1	293.2	210.6	189.1	165.3	142.2	122.4	108.9	101.7	100.1
37.5°	2128.9	1234.9	245.6	191.5	170.9	144.6	119.2	100.9	89.0	83.4	82.6
40°	2220.3	1191.2	213.0	175.6	154.2	125.6	101.7	85.8	73.9	68.3	68.3
42.5°	2394.3	1192.8	191.5	160.5	137.5	107.3	86.6	71.5	61.2	56.4	54.8
45°	2666.1	1246.8	173.2	145.4	121.6	93.0	73.9	58.8	48.5	44.5	44.5
47.5°	3030.1	1354.1	157.3	130.3	107.3	79.5	62.8	47.7	38.9	35.0	35.0
50°	3506.1	1526.6	143.8	117.6	95.4	68.3	50.9	38.9	30.2	27.0	26.2
52.5°	4003.6	1739.5	127.9	106.5	81.9	58.0	41.3	30.2	23.0	20.7	19.9
55°	4552.7	1947.7	112.8	95.4	66.8	48.5	32.6	23.8	16.7	14.3	14.3
57.5°	5106.6	2152.0	94.6	79.5	52.4	35.8	25.4	17.5	11.1	8.7	8.7
60°	5575.4	2217.9	80.3	64.4	39.7	25.4	18.3	11.1	6.4	4.0	4.0
62.5°	5639.8	1995.4	67.5	49.3	28.6	17.5	9.5	6.4	2.4	1.6	1.6
65°	5290.1	1621.1	56.4	37.3	19.1	8.7	4.0	2.4	0.8	0.0	0.0
67°	4740.2	1314.4	46.1	27.8	13.5	5.6	2.4	0.8	0.0	0.0	0.0
67.5°	4599.6	1253.2	44.5	26.2	11.9	4.8	1.6	0.8	0.0	0.0	0.0
70°	3609.4	938.5	31.8	15.9	7.2	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	2243.4	530.8	23.0	9.5	4.8	1.6	0.0	0.0	0.0	0.0	0.0
75°	847.9	186.0	15.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	263.8	70.7	9.5	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	89.0	27.0	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.8	11.1	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	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)