

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: P452692

Luminaire Tested: **GALN-SA3C-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452692
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-SA3C-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 13796 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160
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

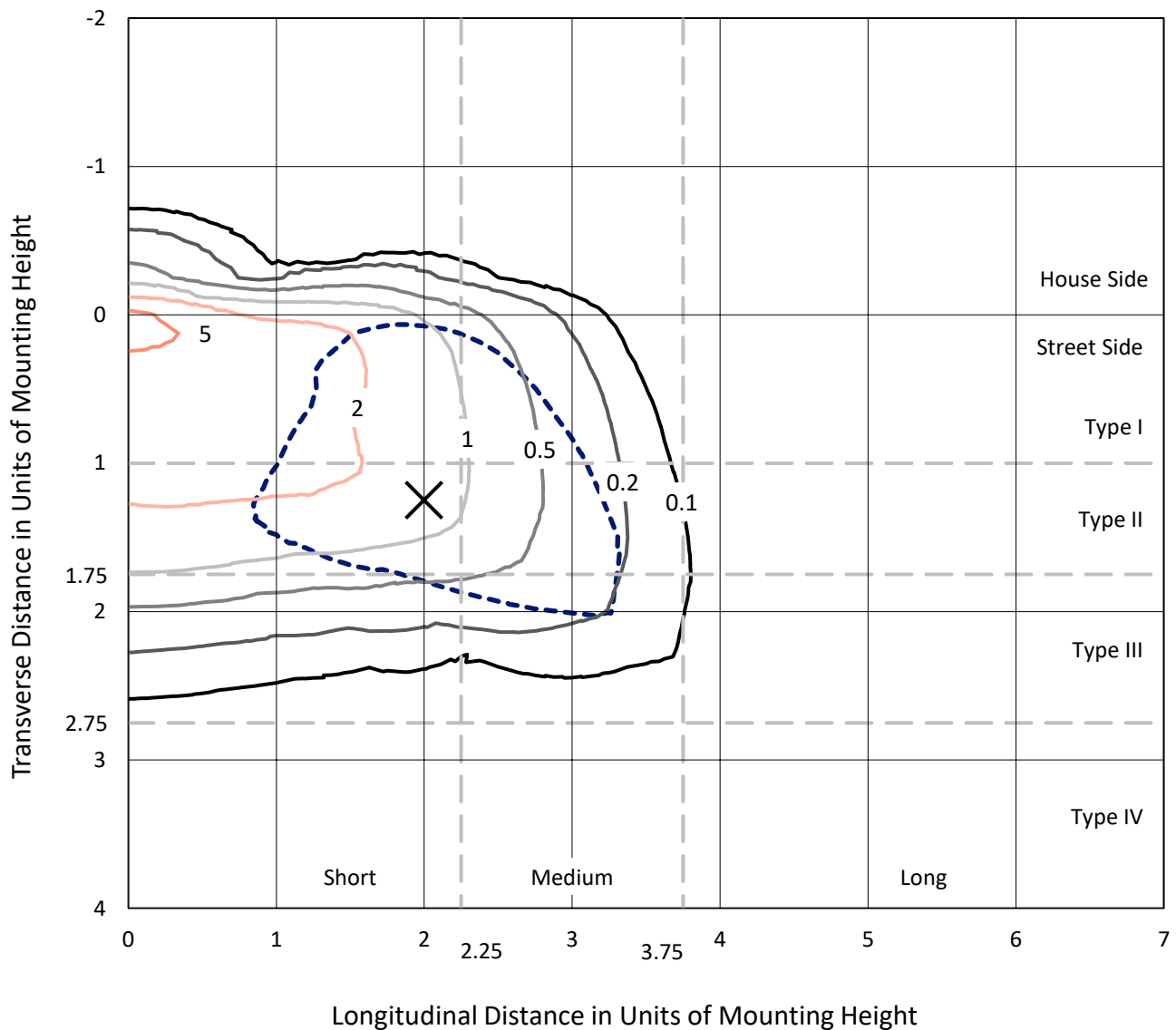


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Iso-Footcandle Lines of Horizontal Illumination

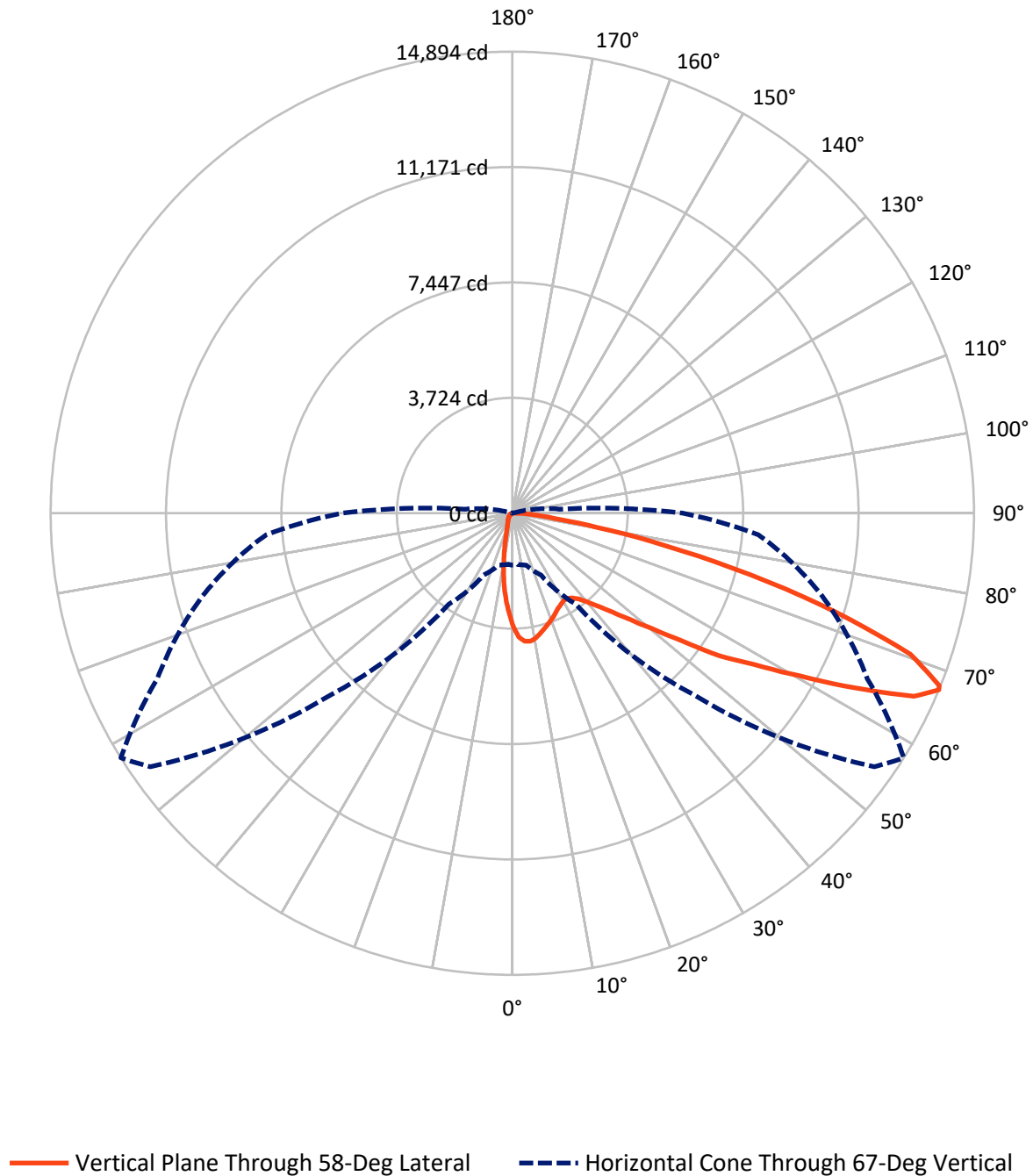
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	995.6	0.0	995.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12800.4	0.0	12800.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	13796.0	0.0	13796.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.8	2.2
10°-20°	641.0	4.6
20°-30°	868.5	6.3
30°-40°	1204.6	8.7
40°-50°	1921.2	13.9
50°-60°	3321.0	24.1
60°-70°	3793.6	27.5
70°-80°	1581.6	11.5
80°-90°	167.7	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°	13796.0	100.0
0°-180°	13796.0	100.0



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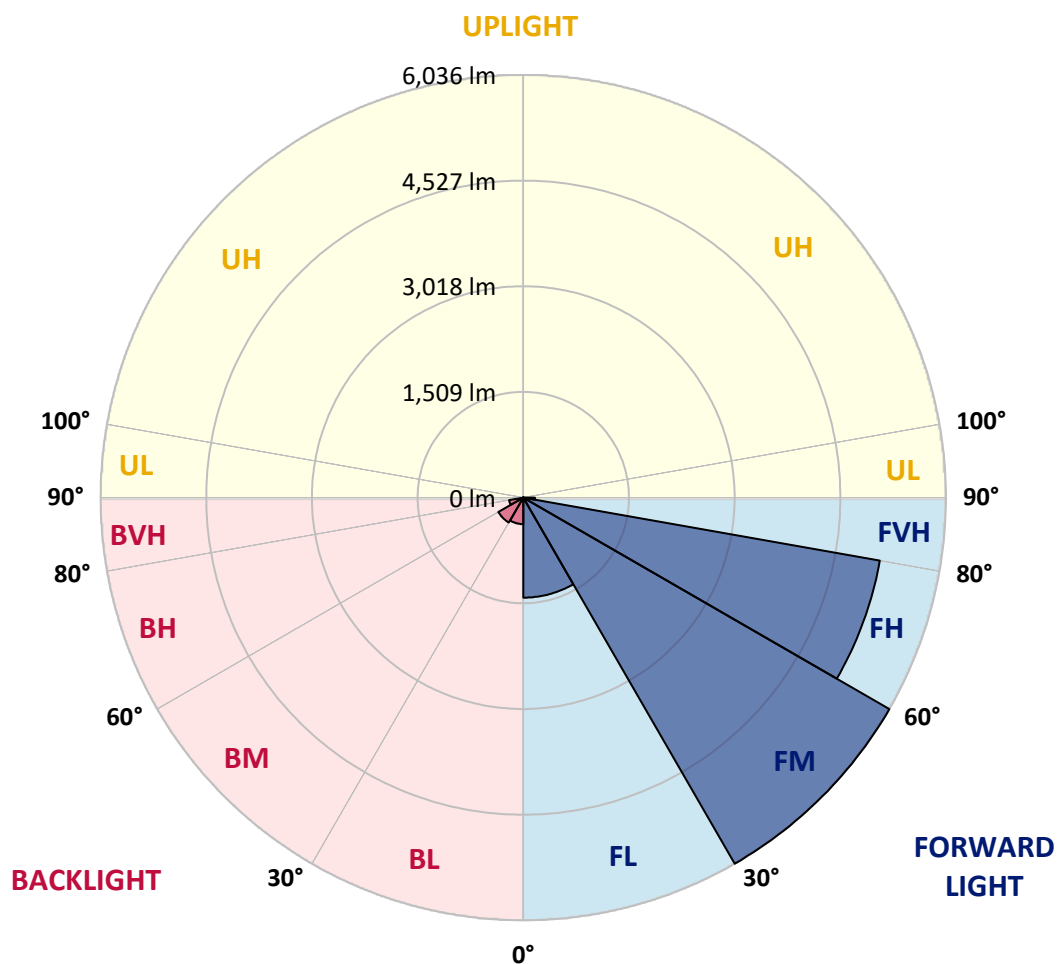
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.2	10.4			
FM	(30°-60°)	6036.3	43.8			
FH	(60°-80°)	5169.4	37.5			G3/7500
FVH	(80°-90°)	166.5	1.2			G2/225
BL	(0°-30°)	378.1	2.7	B1/500		
BM	(30°-60°)	410.5	3.0	B1/1000		
BH	(60°-80°)	205.8	1.5	B1/500		G1/500
BVH	(80°-90°)	1.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2.5°	4244.4	4250.9	4226.9	4207.6	4157.8	4104.3	4033.3	3995.5	3931.0	3819.4	3695.9
5°	4344.0	4352.3	4348.6	4344.0	4324.7	4273.0	4182.7	4149.5	4054.5	3872.9	3649.8
7.5°	4122.8	4153.2	4156.9	4192.8	4226.9	4231.5	4197.4	4172.5	4085.0	3872.0	3567.8
10°	3829.6	3849.9	3879.4	3920.9	4002.9	4071.1	4104.3	4100.6	4049.9	3843.4	3471.9
12.5°	3533.7	3544.7	3589.9	3660.9	3761.4	3877.5	3966.0	3983.5	3984.5	3809.3	3391.7
15°	3279.2	3274.6	3309.6	3391.7	3532.7	3678.4	3837.0	3864.6	3908.9	3776.1	3317.0
17.5°	3061.6	3085.6	3091.1	3181.5	3311.5	3500.5	3702.4	3751.2	3839.7	3747.5	3255.2
20°	2927.0	2940.0	2951.9	3002.6	3119.7	3318.9	3576.1	3643.4	3775.2	3721.7	3186.1
22.5°	2887.4	2895.7	2885.6	2901.2	2984.2	3161.2	3438.7	3528.1	3713.4	3697.8	3129.9
25°	2917.8	2926.1	2902.2	2883.7	2912.3	3033.1	3305.9	3414.7	3663.6	3693.1	3087.5
27.5°	2991.6	3007.3	2974.1	2940.9	2924.3	2963.9	3201.8	3328.1	3629.5	3715.3	3068.1
30°	3106.8	3116.0	3091.1	3050.6	3012.8	2973.1	3147.4	3268.1	3620.3	3766.9	3066.3
32.5°	3232.2	3251.6	3237.7	3211.0	3162.1	3068.1	3163.1	3270.0	3642.4	3841.6	3089.3
35°	3387.1	3409.2	3422.1	3416.6	3353.9	3236.8	3262.6	3353.0	3701.4	3978.9	3152.0
37.5°	3539.2	3558.5	3631.4	3656.3	3601.0	3490.3	3456.2	3516.1	3831.4	4158.7	3265.4
40°	3713.4	3739.2	3841.6	3936.5	3909.8	3793.6	3730.9	3780.7	4030.6	4429.7	3480.2
42.5°	3880.3	3926.4	4082.2	4250.0	4274.9	4144.9	4103.4	4120.0	4325.6	4819.7	3779.8
45°	4117.2	4160.6	4361.5	4589.2	4706.3	4604.9	4562.5	4559.7	4730.3	5368.2	4265.6
47.5°	4459.2	4498.0	4734.9	4959.8	5168.2	5182.0	5101.8	5129.5	5239.2	6009.9	4861.2
50°	4878.7	4970.0	5125.8	5359.9	5638.4	5863.3	5888.2	5851.3	5945.4	6752.9	5576.6
52.5°	5488.1	5523.1	5666.0	5858.7	6185.1	6566.7	6862.7	6811.9	6782.4	7461.0	6299.4
55°	5942.6	5989.6	6211.8	6476.4	6954.8	7458.2	8099.8	8117.4	7744.9	8141.3	7006.5
57.5°	5805.2	5877.1	6213.6	6745.6	7797.5	8717.5	9195.1	9207.1	8635.5	8802.3	7804.8
60°	5100.0	5134.1	5616.2	6326.1	7869.4	10081.9	10748.5	10651.7	9541.7	9541.7	8510.1
62.5°	3616.6	3670.1	4061.0	5105.5	7107.0	10555.8	12608.9	12408.8	10790.0	10248.8	8930.5
65°	2311.2	2259.6	2518.6	3223.0	5294.5	9856.1	14228.7	14240.7	11964.5	10531.8	8700.9
67°	1674.2	1653.9	1728.6	2203.4	3589.9	8285.2	14262.8	14894.3	12639.3	10353.0	7967.1
67.5°	1531.3	1547.0	1601.3	1987.6	3261.7	7539.3	14107.9	14855.6	12791.4	10245.1	7701.6
70°	1160.7	1133.9	1192.9	1405.9	1955.4	4756.1	12135.9	13624.8	12602.4	9174.8	6153.7
72.5°	853.7	850.9	933.0	1149.6	1505.5	2533.4	9110.3	10924.6	10295.8	6986.2	3874.8
75°	576.2	602.0	732.9	960.6	1364.4	1642.8	6210.9	7925.6	7147.5	3967.0	1583.8
77.5°	328.2	330.0	472.0	771.6	1225.2	1322.0	3680.2	5049.3	3783.5	1319.2	470.2
80°	142.0	155.8	234.2	560.5	1015.9	1170.8	2110.2	2774.9	1530.4	279.3	152.1
82.5°	52.5	61.8	103.3	344.8	741.2	964.3	1275.0	1324.8	519.0	98.6	95.0
85°	0.0	1.8	37.8	161.3	386.3	430.5	851.8	785.5	229.6	47.0	61.8
87.5°	0.0	0.0	0.0	16.6	50.7	160.4	264.6	295.0	55.3	16.6	14.8
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°	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2.5°	3629.5	3569.6	3419.3	3269.1	3157.5	3064.4	2924.3	2847.8	2807.2	2747.3	2751.0
5°	3538.3	3416.6	3152.0	2878.2	2656.9	2441.2	2183.1	2078.9	1991.3	1941.5	1908.3
7.5°	3402.7	3223.0	2831.2	2466.1	2125.9	1748.9	1465.8	1276.8	1149.6	1102.6	1057.4
10°	3254.3	3015.5	2505.7	1999.6	1527.6	1138.6	898.9	725.5	663.8	606.6	612.1
12.5°	3117.0	2826.6	2207.0	1578.3	1070.3	723.7	564.2	493.2	472.9	466.5	466.5
15°	3004.5	2645.9	1886.2	1186.5	733.8	520.0	451.7	432.4	425.0	423.2	423.2
17.5°	2884.6	2474.4	1596.7	876.7	533.8	435.1	412.1	399.2	396.4	394.6	394.6
20°	2777.7	2302.0	1322.0	652.7	431.5	391.8	377.1	368.8	366.0	364.2	365.1
22.5°	2676.3	2149.0	1063.9	493.2	379.8	356.8	342.0	333.7	328.2	323.6	324.5
25°	2585.9	2001.5	855.5	403.8	342.0	321.7	307.0	295.0	283.0	277.5	276.6
27.5°	2522.3	1872.4	666.5	345.7	307.9	285.8	267.4	252.6	236.9	228.6	226.8
30°	2469.8	1741.5	527.3	305.2	273.8	252.6	229.6	208.4	191.8	183.5	179.8
32.5°	2435.7	1617.0	415.8	272.0	245.2	219.4	193.6	172.4	154.0	145.7	143.8
35°	2430.1	1512.8	340.2	244.3	219.4	191.8	165.0	142.0	126.3	118.0	116.2
37.5°	2469.8	1432.6	284.9	222.2	198.2	167.8	138.3	117.1	103.3	96.8	95.9
40°	2575.8	1381.9	247.1	203.7	178.8	145.7	118.0	99.6	85.7	79.3	79.3
42.5°	2777.7	1383.8	222.2	186.2	159.5	124.5	100.5	83.0	71.0	65.5	63.6
45°	3093.0	1446.5	201.0	168.7	141.1	107.9	85.7	68.2	56.2	51.6	51.6
47.5°	3515.2	1570.9	182.5	151.2	124.5	92.2	72.8	55.3	45.2	40.6	40.6
50°	4067.4	1771.0	166.9	136.4	110.6	79.3	59.0	45.2	35.0	31.3	30.4
52.5°	4644.6	2018.0	148.4	123.5	95.0	67.3	47.9	35.0	26.7	24.0	23.0
55°	5281.6	2259.6	130.9	110.6	77.4	56.2	37.8	27.7	19.4	16.6	16.6
57.5°	5924.2	2496.5	109.7	92.2	60.8	41.5	29.5	20.3	12.9	10.1	10.1
60°	6468.1	2573.0	93.1	74.7	46.1	29.5	21.2	12.9	7.4	4.6	4.6
62.5°	6542.8	2314.9	78.4	57.2	33.2	20.3	11.1	7.4	2.8	1.8	1.8
65°	6137.1	1880.7	65.5	43.3	22.1	10.1	4.6	2.8	0.9	0.0	0.0
67°	5499.2	1524.8	53.5	32.3	15.7	6.5	2.8	0.9	0.0	0.0	0.0
67.5°	5336.0	1453.8	51.6	30.4	13.8	5.5	1.8	0.9	0.0	0.0	0.0
70°	4187.3	1088.8	36.9	18.4	8.3	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	2602.5	615.8	26.7	11.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0
75°	983.7	215.7	18.4	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	306.1	82.0	11.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	103.3	31.3	7.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.6	12.9	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.6	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	1.8	0.9	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)