

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: P192563

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33158 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 320
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: 25 FT



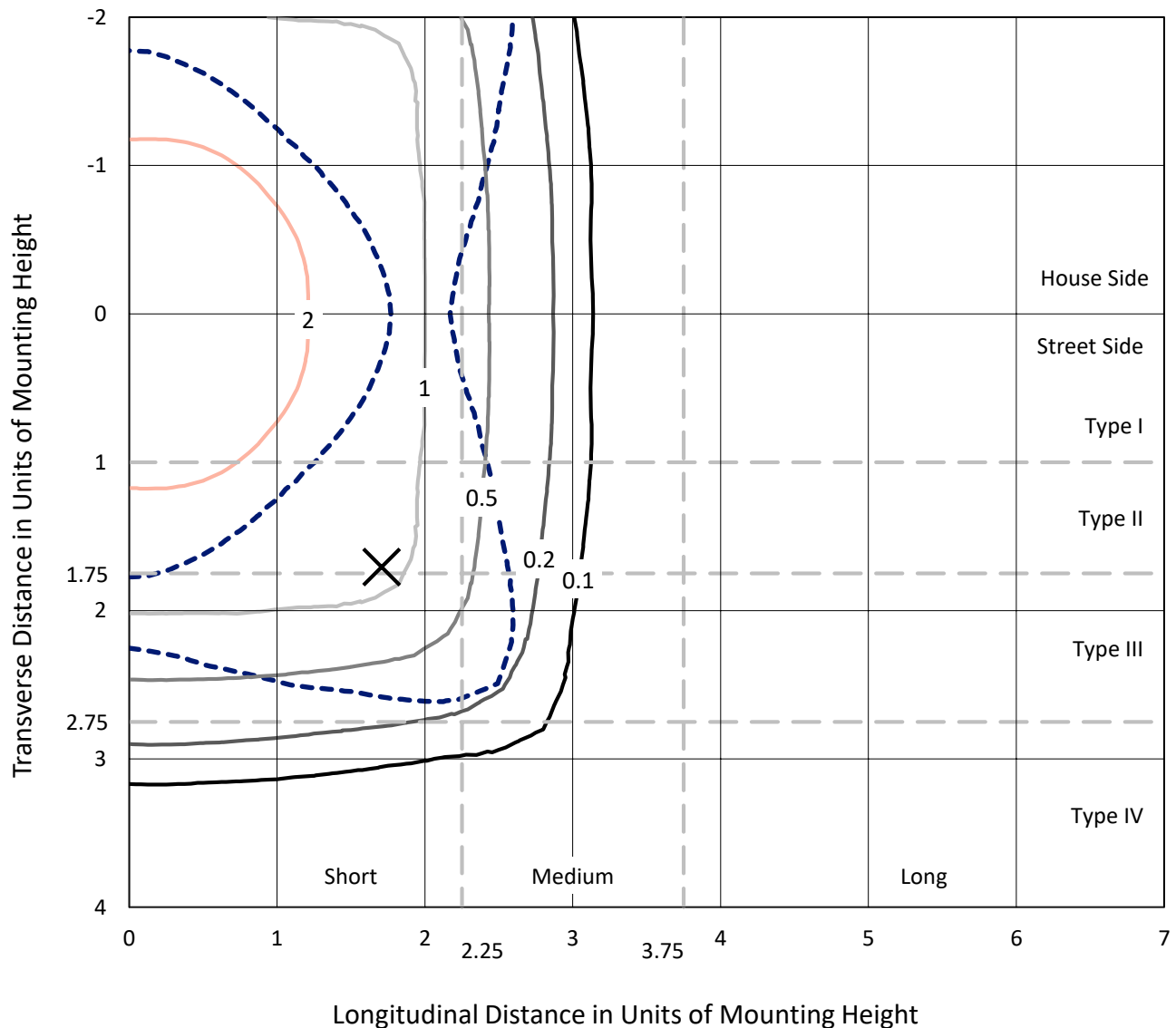
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

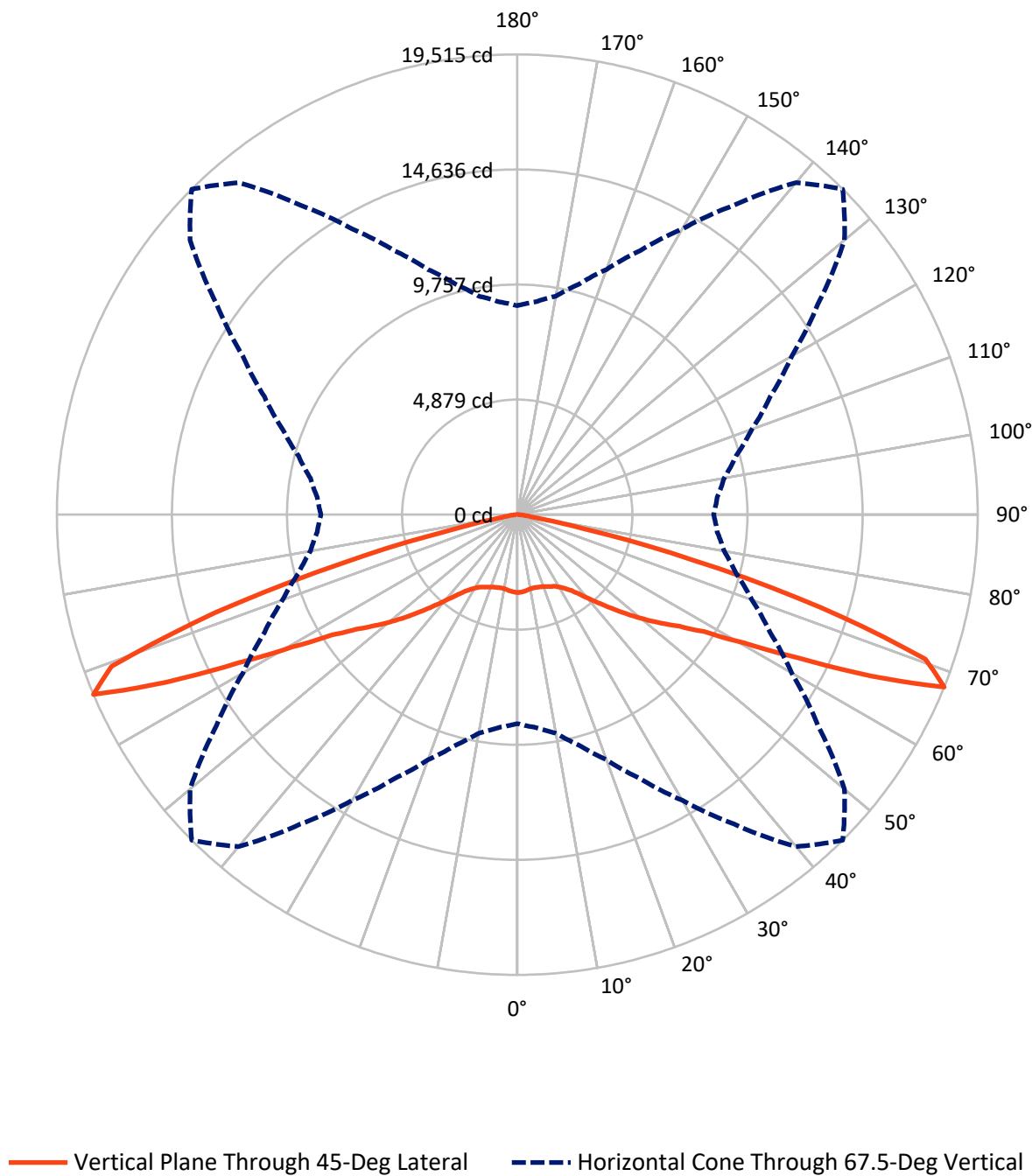


Based on 30 foot mounting height. Maximum calculated value = 3.7 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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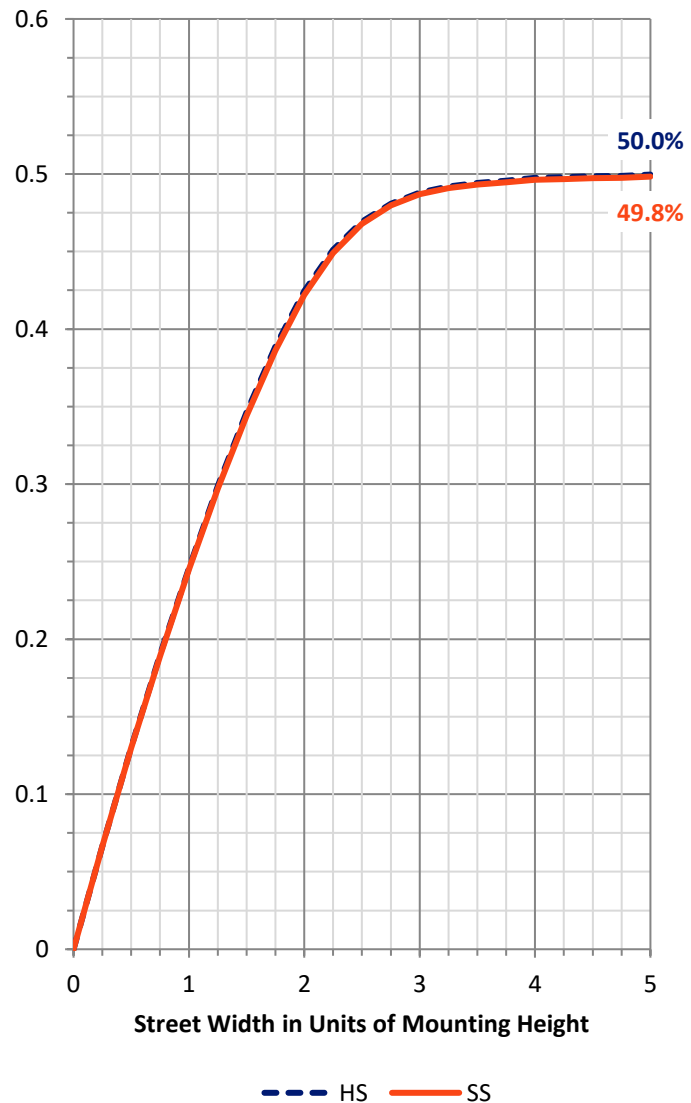
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16579.0	0.0	16579.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16579.0	0.0	16579.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33158.0	0.0	33158.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.3	0.9
10°-20°	897.4	2.7
20°-30°	1525.6	4.6
30°-40°	2493.9	7.5
40°-50°	4452.1	13.4
50°-60°	7506.4	22.6
60°-70°	11648.9	35.1
70°-80°	4092.9	12.3
80°-90°	231.3	0.7
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°	33158.0	100.0
0°-180°	33158.0	100.0



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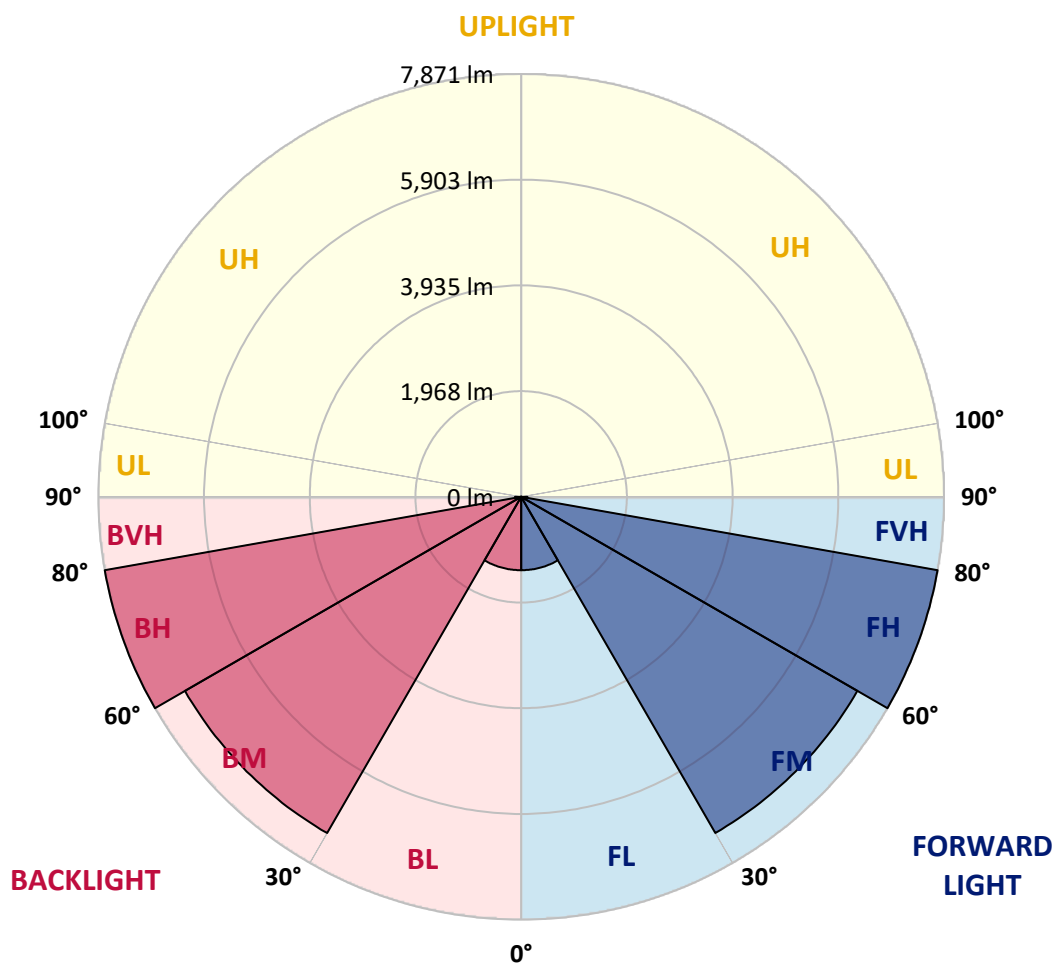
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1366.2	4.1			
FM	(30°-60°)	7226.3	21.8			
FH	(60°-80°)	7870.9	23.7			G4/12000
FVH	(80°-90°)	115.6	0.3			G2/225
BL	(0°-30°)	1366.2	4.1	B3/2500		
BM	(30°-60°)	7226.3	21.8	B4/8500		
BH	(60°-80°)	7870.9	23.7	B5		G4/12000
BVH	(80°-90°)	115.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3292.1	3295.2	3295.2	3295.2	3293.6	3293.6	3290.6	3293.6	3292.1	3287.6	3289.1
5°	3264.6	3267.7	3267.7	3266.2	3270.7	3269.2	3264.6	3267.7	3266.2	3263.1	3264.6
7.5°	3225.0	3229.6	3229.6	3228.1	3232.7	3231.2	3228.1	3229.6	3229.6	3225.0	3225.0
10°	3180.9	3184.0	3184.0	3182.4	3190.0	3190.0	3188.4	3193.0	3194.5	3190.0	3186.9
12.5°	3139.7	3144.3	3144.3	3150.3	3157.9	3161.0	3168.6	3174.7	3180.9	3179.3	3173.2
15°	3115.2	3118.3	3124.4	3132.0	3144.3	3154.9	3167.1	3180.9	3193.0	3196.1	3186.9
17.5°	3100.0	3104.6	3113.8	3124.4	3141.2	3159.4	3177.8	3196.1	3212.9	3219.0	3208.3
20°	3095.5	3098.5	3107.7	3125.9	3148.9	3176.2	3202.2	3223.4	3246.4	3254.1	3246.4
22.5°	3104.6	3110.7	3121.3	3142.8	3173.2	3208.3	3238.8	3267.7	3296.7	3310.4	3299.7
25°	3145.8	3151.8	3165.6	3193.0	3226.5	3263.1	3298.2	3331.8	3357.7	3371.4	3363.8
27.5°	3221.9	3229.6	3246.4	3273.9	3310.4	3350.1	3388.2	3415.7	3437.0	3441.5	3432.4
30°	3336.3	3353.1	3373.0	3403.4	3446.1	3479.7	3517.8	3542.1	3568.1	3568.1	3560.5
32.5°	3514.8	3531.6	3552.9	3581.8	3615.4	3652.0	3685.6	3706.8	3734.4	3735.9	3717.5
35°	3781.6	3789.2	3807.5	3825.8	3856.3	3888.3	3917.3	3931.0	3953.9	3955.4	3938.7
37.5°	4133.9	4135.4	4147.6	4153.7	4181.2	4216.2	4243.6	4252.8	4274.1	4271.1	4254.3
40°	4544.0	4551.6	4556.2	4565.4	4594.4	4627.9	4656.8	4661.4	4684.3	4679.8	4658.4
42.5°	5018.3	5021.3	5047.2	5061.0	5088.4	5105.1	5141.7	5146.3	5173.8	5161.6	5137.2
45°	5550.5	5577.9	5602.3	5629.7	5658.6	5678.5	5707.4	5701.3	5719.7	5701.3	5687.7
47.5°	6110.0	6129.9	6184.7	6227.4	6274.8	6291.4	6332.6	6314.4	6332.6	6306.8	6302.2
50°	6726.1	6761.2	6808.4	6857.2	6907.6	6935.0	6988.3	6965.5	6989.9	6965.5	6951.7
52.5°	7332.9	7342.1	7445.8	7517.5	7587.6	7619.6	7651.7	7640.9	7642.4	7640.9	7627.3
55°	7909.4	7930.7	8034.4	8131.9	8254.0	8343.9	8398.9	8392.8	8379.0	8365.3	8342.4
57.5°	8559.0	8580.2	8699.2	8819.7	8958.5	9086.5	9197.9	9312.1	9356.4	9368.7	9318.2
60°	9437.3	9435.7	9594.3	9740.7	9938.9	10129.5	10373.5	10622.0	10907.3	11039.9	10864.5
62.5°	10330.8	10367.4	10596.2	10855.4	11264.0	11662.0	12111.8	12554.0	13005.3	13372.9	12982.5
65°	10224.1	10364.4	10704.3	11291.5	12046.3	12942.9	13912.6	14938.9	15866.0	16503.4	15788.2
67.5°	8860.8	9060.7	9406.7	10120.3	11064.2	12357.3	13985.8	16015.4	18374.3	19514.9	18101.4
70°	6422.6	6648.3	7011.2	7708.1	8642.9	9871.8	11640.7	14077.4	17200.2	18350.0	16793.1
72.5°	3196.1	3318.1	3542.1	3985.9	4693.4	5690.7	7294.8	9637.0	12400.1	13455.2	12032.5
75°	1085.7	1142.1	1180.2	1325.1	1549.2	1941.1	2738.6	4213.1	6427.1	7705.1	6335.7
77.5°	626.7	628.2	654.1	680.0	718.2	760.9	867.6	1139.0	1970.1	2798.1	2038.7
80°	405.6	404.0	425.4	445.2	471.1	492.5	498.7	527.6	608.5	721.2	644.9
82.5°	210.5	236.3	283.6	309.5	358.4	367.4	355.3	344.6	364.5	378.1	387.4
85°	116.0	100.6	151.0	195.1	216.6	219.6	219.6	207.4	215.0	210.5	228.7
87.5°	53.3	48.8	59.4	96.0	102.1	87.0	91.4	80.9	57.9	56.4	64.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3	3304.3
2.5°	3289.1	3290.6	3290.6	3295.2	3296.7	3299.7	3302.8	3304.3
5°	3263.1	3267.7	3264.6	3269.2	3269.2	3272.4	3272.4	3273.9
7.5°	3225.0	3229.6	3229.6	3229.6	3228.1	3232.7	3232.7	3232.7
10°	3185.4	3188.4	3186.9	3184.0	3180.9	3185.4	3184.0	3182.4
12.5°	3173.2	3165.6	3159.4	3156.4	3150.3	3151.8	3147.3	3147.3
15°	3180.9	3167.1	3156.4	3151.8	3145.8	3142.8	3139.7	3141.2
17.5°	3200.6	3184.0	3170.1	3162.5	3154.9	3150.3	3144.3	3145.8
20°	3235.7	3215.9	3196.1	3180.9	3167.1	3159.4	3154.9	3153.3
22.5°	3287.6	3258.5	3229.6	3206.8	3188.4	3177.8	3173.2	3170.1
25°	3347.0	3315.0	3281.5	3255.5	3237.3	3223.4	3214.4	3214.4
27.5°	3421.8	3395.8	3365.3	3334.8	3318.1	3304.3	3298.2	3295.2
30°	3546.8	3522.4	3497.9	3469.0	3447.6	3433.9	3423.3	3414.2
32.5°	3706.8	3687.1	3667.3	3645.9	3626.1	3607.7	3591.1	3583.3
35°	3932.6	3917.3	3903.7	3879.2	3871.6	3860.9	3851.7	3844.2
37.5°	4243.6	4237.5	4237.5	4211.6	4205.5	4200.9	4191.8	4193.4
40°	4652.3	4658.4	4650.7	4641.7	4637.1	4624.8	4624.8	4635.6
42.5°	5135.6	5140.2	5157.0	5141.7	5158.5	5143.3	5134.1	5141.7
45°	5696.8	5713.6	5747.1	5731.8	5742.5	5716.7	5684.6	5686.2
47.5°	6326.5	6341.9	6355.5	6344.9	6346.5	6303.7	6261.0	6250.2
50°	6980.7	6986.8	6994.4	6979.2	6982.2	6935.0	6886.2	6887.7
52.5°	7627.3	7656.3	7686.7	7645.5	7636.4	7583.0	7514.5	7487.0
55°	8366.8	8407.9	8372.9	8301.2	8229.6	8158.0	8067.9	8052.7
57.5°	9278.7	9208.5	9098.8	8963.0	8863.8	8763.2	8671.8	8633.6
60°	10547.4	10283.6	10085.2	9884.0	9757.5	9633.9	9513.5	9495.1
62.5°	12340.5	11884.6	11489.7	11073.4	10733.4	10468.0	10256.0	10196.6
65°	14588.2	13510.1	12575.4	11703.2	10945.4	10373.5	10013.6	9855.0
67.5°	15554.9	13426.3	11823.6	10585.5	9594.3	8902.0	8513.2	8319.5
70°	13668.7	11134.4	9391.5	8151.9	7249.2	6511.1	6158.8	5951.5
72.5°	9403.7	7082.8	5600.7	4571.5	3850.2	3232.7	2988.7	2970.4
75°	4222.4	2796.6	1927.5	1485.2	1250.4	1087.2	1036.9	998.7
77.5°	1181.7	873.7	779.2	728.9	680.0	623.7	602.3	606.9
80°	574.8	542.8	521.5	489.5	445.2	398.0	376.6	385.8
82.5°	381.2	376.6	390.4	367.4	303.4	257.8	216.6	198.2
85°	231.7	234.8	239.4	240.9	204.4	143.3	97.6	109.8
87.5°	91.4	105.2	114.4	119.0	111.3	68.7	54.8	56.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)