

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: P299361

Luminaire Tested: **GLNA-AF-05-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-5NQ-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24957.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 279
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

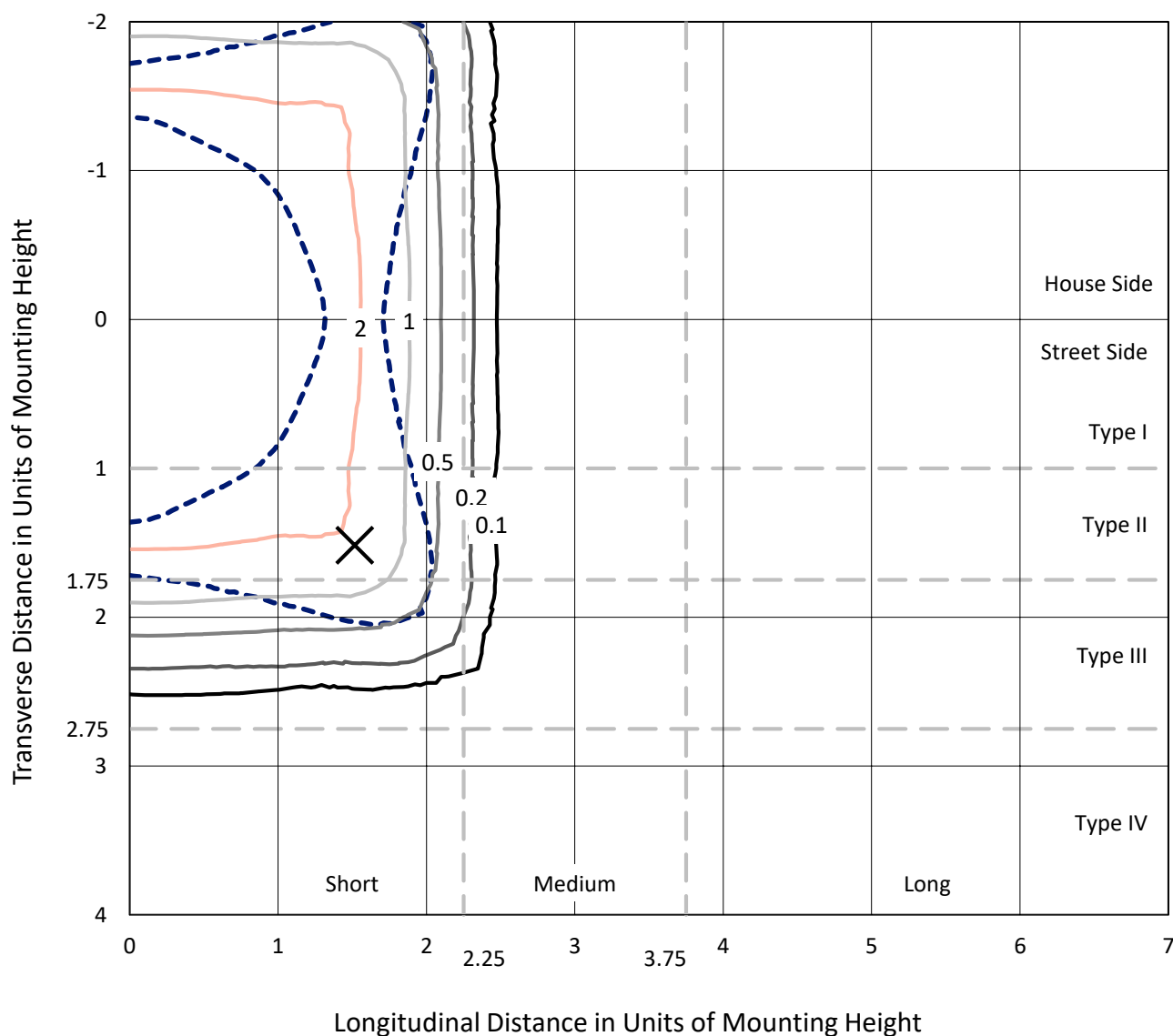


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

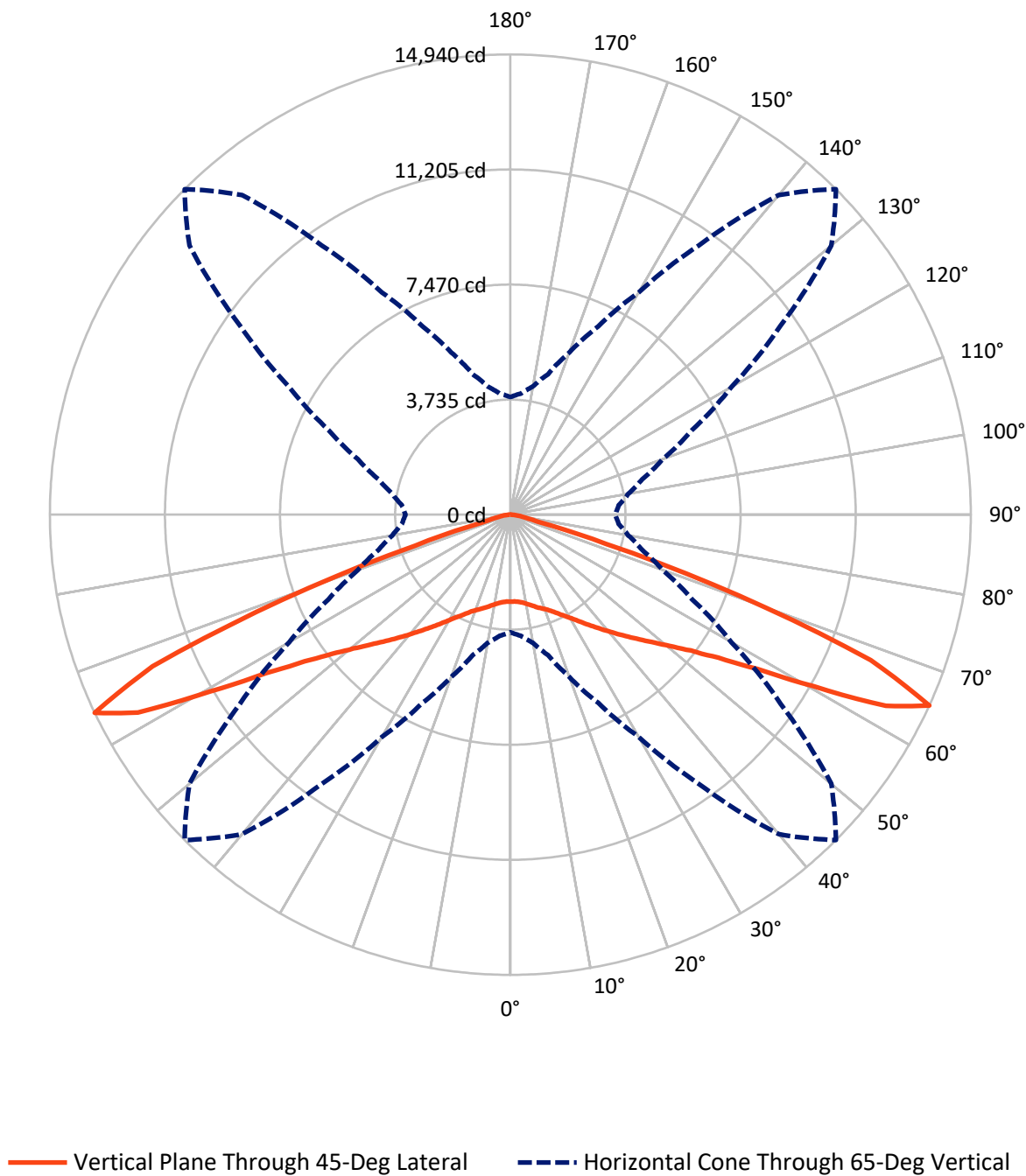


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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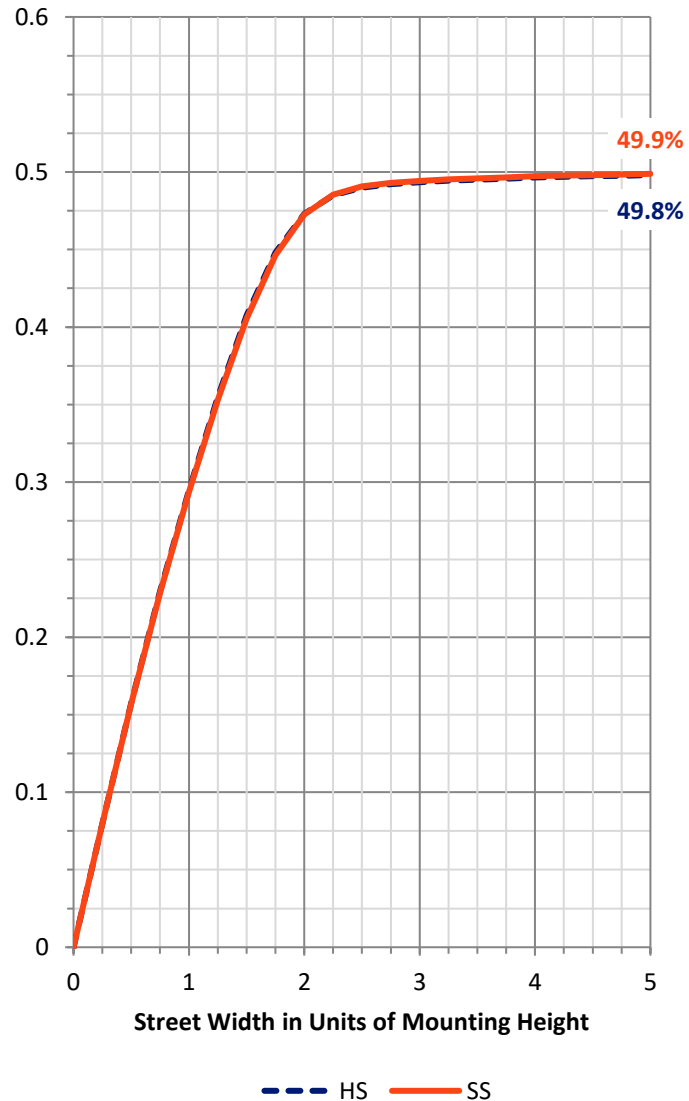
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12478.7	0.0	12478.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12478.7	0.0	12478.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24957.5	0.0	24957.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	1.1
10°-20°	882.8	3.5
20°-30°	1650.6	6.6
30°-40°	2791.6	11.2
40°-50°	4564.6	18.3
50°-60°	7258.4	29.1
60°-70°	6561.1	26.3
70°-80°	830.3	3.3
80°-90°	142.8	0.6
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°	24957.5	100.0
0°-180°	24957.5	100.0

Coefficient of Utilization



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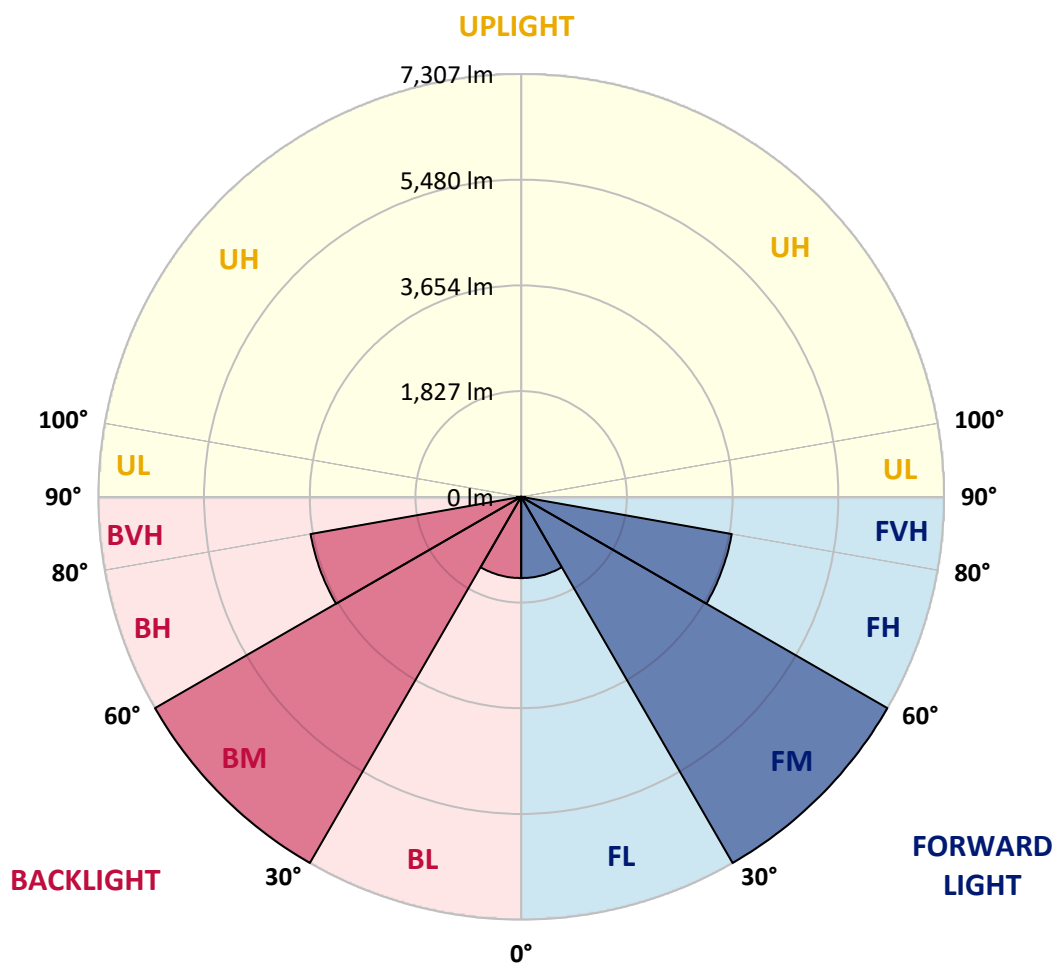
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1404.3	5.6			
FM	(30°-60°)	7307.3	29.3			
FH	(60°-80°)	3695.7	14.8			G2/5000
FVH	(80°-90°)	71.4	0.3			G1/100
BL	(0°-30°)	1404.3	5.6	B3/2500		
BM	(30°-60°)	7307.3	29.3	B4/8500		
BH	(60°-80°)	3695.7	14.8	B4/5000		G2/5000
BVH	(80°-90°)	71.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0
2.5°	2826.3	2828.6	2831.0	2828.6	2831.0	2827.5	2825.1	2828.6	2825.1	2821.6	2824.0
5°	2850.8	2852.0	2852.0	2848.5	2852.0	2849.7	2846.2	2850.8	2847.3	2843.8	2846.2
7.5°	2891.7	2896.4	2892.9	2889.4	2891.7	2889.4	2887.1	2888.2	2887.1	2883.6	2884.7
10°	2946.7	2950.2	2947.9	2946.7	2949.0	2947.9	2945.5	2944.3	2945.5	2942.0	2942.0
12.5°	3013.3	3012.1	3011.0	3012.1	3015.6	3015.6	3014.5	3015.6	3018.0	3019.2	3016.8
15°	3078.8	3081.1	3081.1	3081.1	3088.1	3094.0	3097.5	3099.8	3104.5	3105.7	3101.0
17.5°	3160.6	3160.6	3159.4	3160.6	3167.6	3177.0	3180.5	3185.1	3189.8	3193.3	3187.5
20°	3251.8	3254.1	3254.1	3256.4	3265.8	3276.3	3276.3	3278.6	3276.3	3278.6	3275.1
22.5°	3362.8	3369.8	3369.8	3371.0	3380.3	3393.2	3389.7	3393.2	3387.3	3392.0	3387.3
25°	3507.7	3518.3	3515.9	3515.9	3522.9	3531.1	3532.3	3539.3	3538.1	3544.0	3540.5
27.5°	3671.4	3687.7	3692.4	3691.2	3695.9	3704.1	3706.4	3714.6	3709.9	3714.6	3712.3
30°	3867.7	3874.8	3884.1	3887.6	3893.5	3901.6	3901.6	3902.8	3897.0	3904.0	3907.5
32.5°	4071.1	4084.0	4093.3	4114.4	4124.9	4130.7	4129.6	4131.9	4126.1	4135.4	4142.4
35°	4340.0	4349.3	4364.5	4380.9	4394.9	4393.7	4390.2	4391.4	4391.4	4399.6	4406.6
37.5°	4663.7	4666.1	4685.9	4709.3	4716.3	4709.3	4688.3	4683.6	4673.1	4683.6	4695.3
40°	5006.2	5014.4	5054.1	5069.3	5072.8	5060.0	5029.6	5012.1	4988.7	5001.5	5017.9
42.5°	5365.0	5381.4	5417.6	5444.5	5456.2	5448.0	5406.0	5379.1	5348.7	5355.7	5372.1
45°	5762.5	5782.3	5833.8	5859.5	5881.7	5868.8	5827.9	5787.0	5739.1	5742.6	5768.3
47.5°	6206.6	6226.5	6293.1	6336.4	6348.1	6345.7	6300.1	6244.0	6178.6	6176.2	6198.4
50°	6704.6	6724.4	6807.4	6874.0	6907.9	6904.4	6850.7	6771.2	6691.7	6692.9	6720.9
52.5°	7190.8	7215.3	7301.8	7416.4	7483.0	7530.9	7498.2	7423.4	7326.4	7328.7	7354.4
55°	7646.7	7687.6	7786.9	7942.4	8066.3	8200.7	8239.3	8236.9	8178.5	8194.8	8220.6
57.5°	7867.6	7928.3	8081.5	8326.9	8579.4	8852.9	9084.3	9257.3	9331.0	9442.0	9416.3
60°	7449.1	7546.1	7771.7	8132.9	8632.0	9202.4	9813.7	10411.0	10920.6	11305.2	11084.3
62.5°	6099.1	6225.3	6498.8	6961.7	7716.8	8629.7	9799.7	11211.7	12749.9	13678.0	13015.2
65°	3816.3	3947.2	4225.4	4721.0	5604.7	6739.6	8326.9	10667.0	13541.2	14940.3	13591.5
67.5°	1488.0	1559.3	1710.0	2026.8	2690.7	3700.6	5293.7	7949.4	11387.0	12613.1	11175.4
70°	745.7	752.7	780.8	839.2	981.8	1275.2	1940.3	3685.4	6530.4	7887.4	6295.5
72.5°	538.8	540.0	554.0	579.8	625.3	690.8	817.0	1127.9	2123.8	3245.9	1990.6
75°	412.6	417.3	425.5	439.5	464.0	496.8	542.3	649.9	805.3	933.9	785.5
77.5°	317.9	327.3	333.1	346.0	361.2	383.4	396.2	437.2	508.5	535.3	527.2
80°	242.0	250.1	263.0	273.5	284.0	294.6	289.9	308.6	346.0	368.2	356.5
82.5°	154.3	163.6	201.0	210.4	215.1	222.1	213.9	215.1	231.4	245.5	231.4
85°	99.4	105.2	127.4	139.1	140.3	144.9	141.4	133.2	133.2	121.6	136.8
87.5°	45.6	46.8	57.3	67.8	70.1	63.1	61.9	59.6	47.9	45.6	49.1
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°	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0	2824.0
2.5°	2822.8	2825.1	2826.3	2829.8	2831.0	2831.0	2832.1	2834.5
5°	2845.0	2848.5	2849.7	2854.3	2855.5	2854.3	2856.7	2857.9
7.5°	2884.7	2890.6	2892.9	2897.6	2894.1	2898.8	2899.9	2899.9
10°	2943.2	2949.0	2950.2	2954.9	2952.5	2954.9	2954.9	2952.5
12.5°	3020.3	3021.5	3018.0	3021.5	3016.8	3019.2	3015.6	3013.3
15°	3105.7	3102.1	3094.0	3094.0	3086.9	3088.1	3086.9	3085.8
17.5°	3188.6	3181.6	3175.8	3173.4	3167.6	3166.4	3162.9	3162.9
20°	3279.8	3276.3	3272.8	3268.1	3262.3	3256.4	3255.3	3257.6
22.5°	3389.7	3388.5	3388.5	3386.2	3378.0	3372.1	3368.6	3368.6
25°	3537.0	3526.4	3526.4	3525.3	3521.8	3518.3	3511.2	3514.7
27.5°	3702.9	3697.1	3701.8	3700.6	3697.1	3697.1	3692.4	3692.4
30°	3907.5	3905.1	3912.2	3906.3	3894.6	3893.5	3888.8	3882.9
32.5°	4143.6	4141.3	4151.8	4144.8	4126.1	4115.5	4106.2	4101.5
35°	4406.6	4407.8	4420.6	4415.9	4394.9	4387.9	4371.5	4369.2
37.5°	4694.1	4712.8	4735.0	4739.7	4722.2	4717.5	4700.0	4690.6
40°	5031.9	5056.5	5090.4	5098.5	5079.8	5076.3	5051.8	5038.9
42.5°	5391.9	5434.0	5476.1	5483.1	5464.4	5445.7	5422.3	5413.0
45°	5794.0	5844.3	5899.2	5913.2	5885.2	5863.0	5832.6	5832.6
47.5°	6245.2	6308.3	6370.3	6408.8	6383.1	6359.7	6323.5	6300.1
50°	6778.2	6864.7	6945.3	6985.1	6944.2	6899.8	6836.6	6815.6
52.5°	7446.8	7540.3	7610.4	7589.4	7526.3	7464.3	7395.4	7367.3
55°	8300.0	8331.6	8331.6	8252.1	8125.9	8021.9	7913.2	7876.9
57.5°	9367.2	9245.6	9058.6	8821.4	8523.3	8263.8	8088.5	8005.5
60°	10621.4	10037.0	9376.6	8727.8	8194.8	7755.4	7494.7	7375.5
62.5°	11457.1	9928.3	8605.1	7563.7	6796.9	6267.4	5907.4	5767.1
65°	10707.9	8280.2	6508.2	5262.2	4426.5	3887.6	3531.1	3400.2
67.5°	7843.0	5188.6	3465.7	2483.8	1819.9	1451.7	1305.6	1244.8
70°	3520.6	1826.9	1119.8	874.3	753.9	692.0	665.1	655.7
72.5°	1061.3	767.9	647.5	584.4	536.5	506.1	483.9	481.6
75°	640.5	533.0	473.4	436.0	405.6	381.0	369.4	365.9
77.5°	447.7	391.6	363.5	336.6	313.3	294.6	284.0	275.8
80°	314.4	287.5	274.7	259.5	244.3	226.8	211.6	204.5
82.5°	210.4	204.5	204.5	195.2	182.3	166.0	135.6	128.6
85°	135.6	134.4	136.8	133.2	123.9	106.4	87.7	83.0
87.5°	63.1	64.3	71.3	70.1	67.8	56.1	44.4	42.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)