

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: P192720

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13256.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

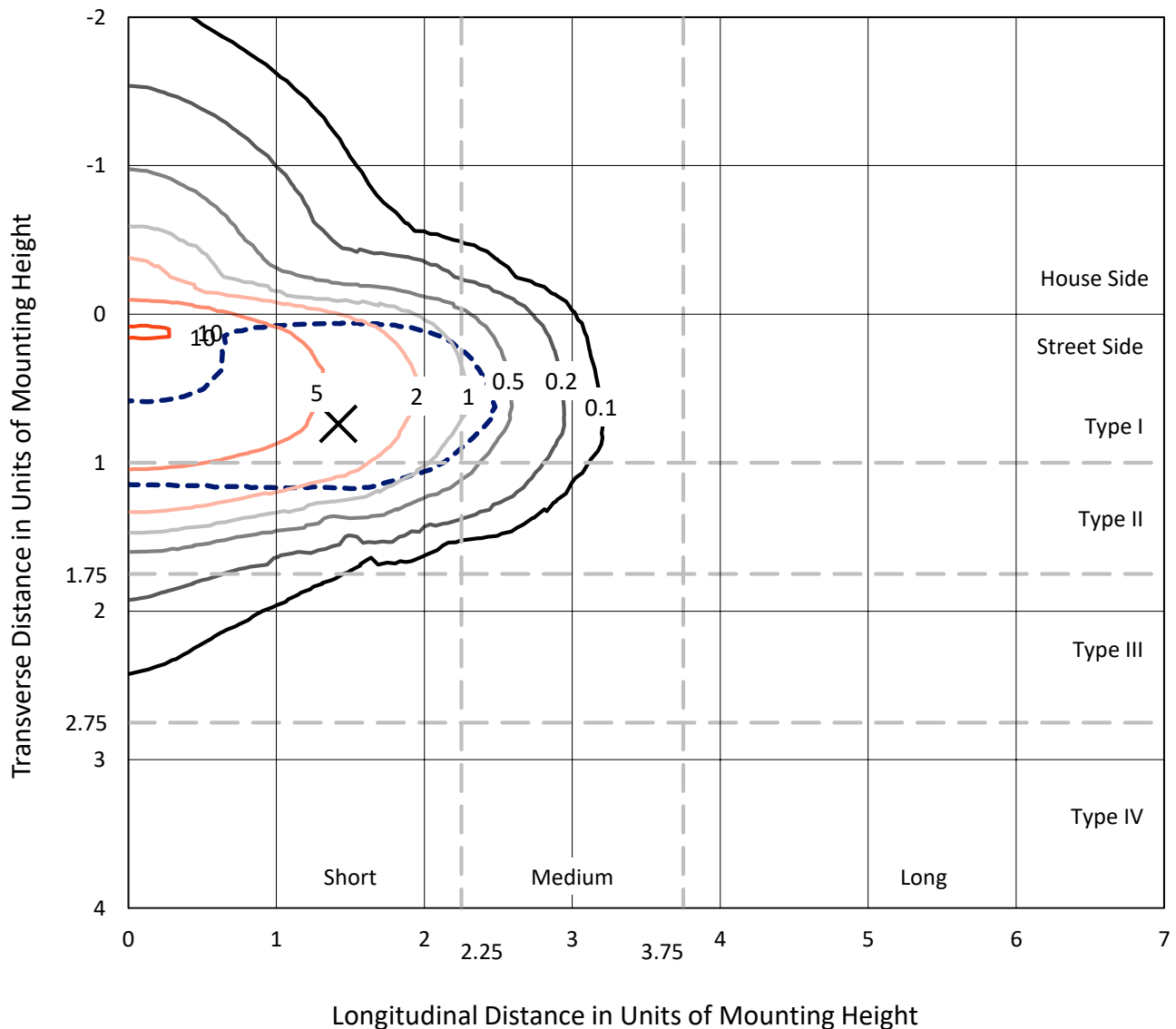


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

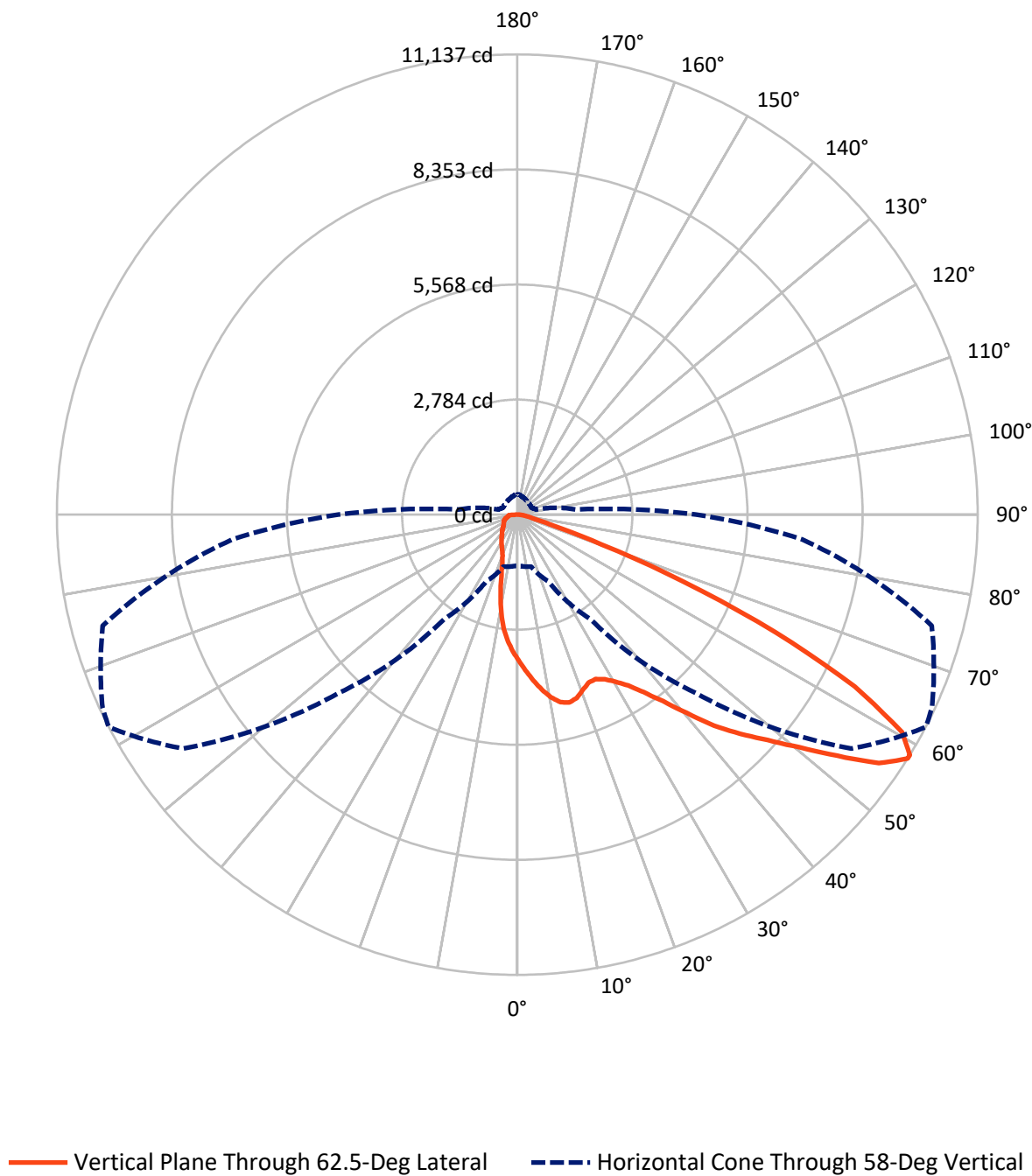


Based on 20 foot mounting height. Maximum calculated value = 10.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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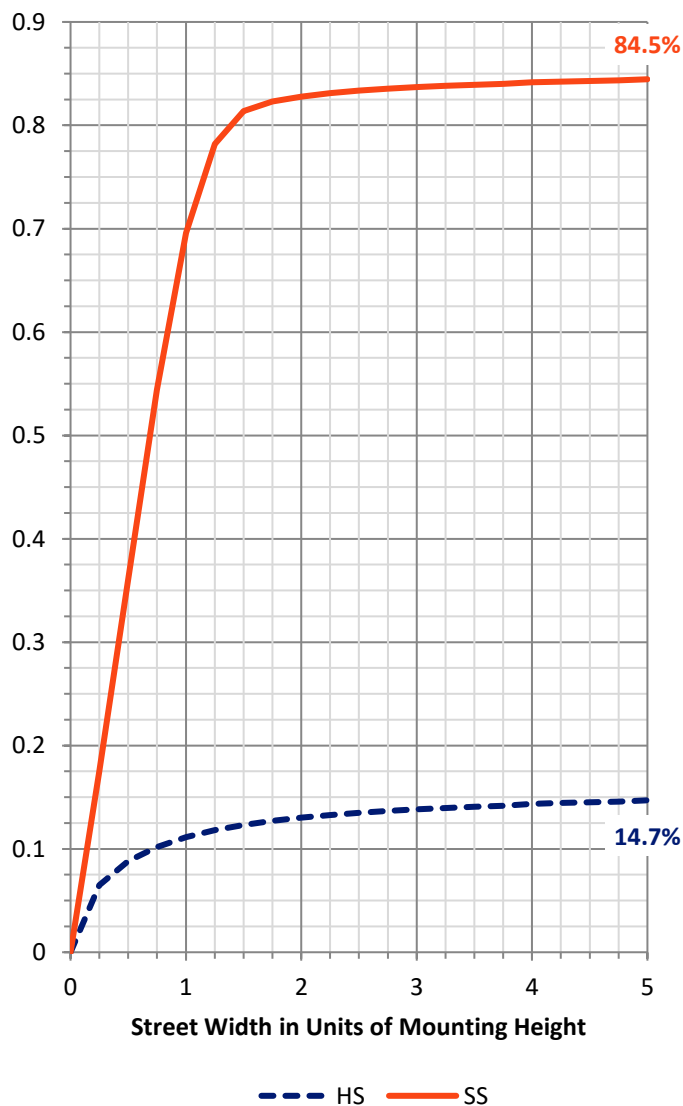
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.6	0.0	2021.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11234.8	0.0	11234.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	13256.4	0.0	13256.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	2.4
10°-20°	805.0	6.1
20°-30°	1301.3	9.8
30°-40°	2065.8	15.6
40°-50°	3022.7	22.8
50°-60°	3161.5	23.8
60°-70°	1867.8	14.1
70°-80°	526.2	4.0
80°-90°	191.0	1.4
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°	13256.4	100.0
0°-180°	13256.4	100.0

Coefficient of Utilization



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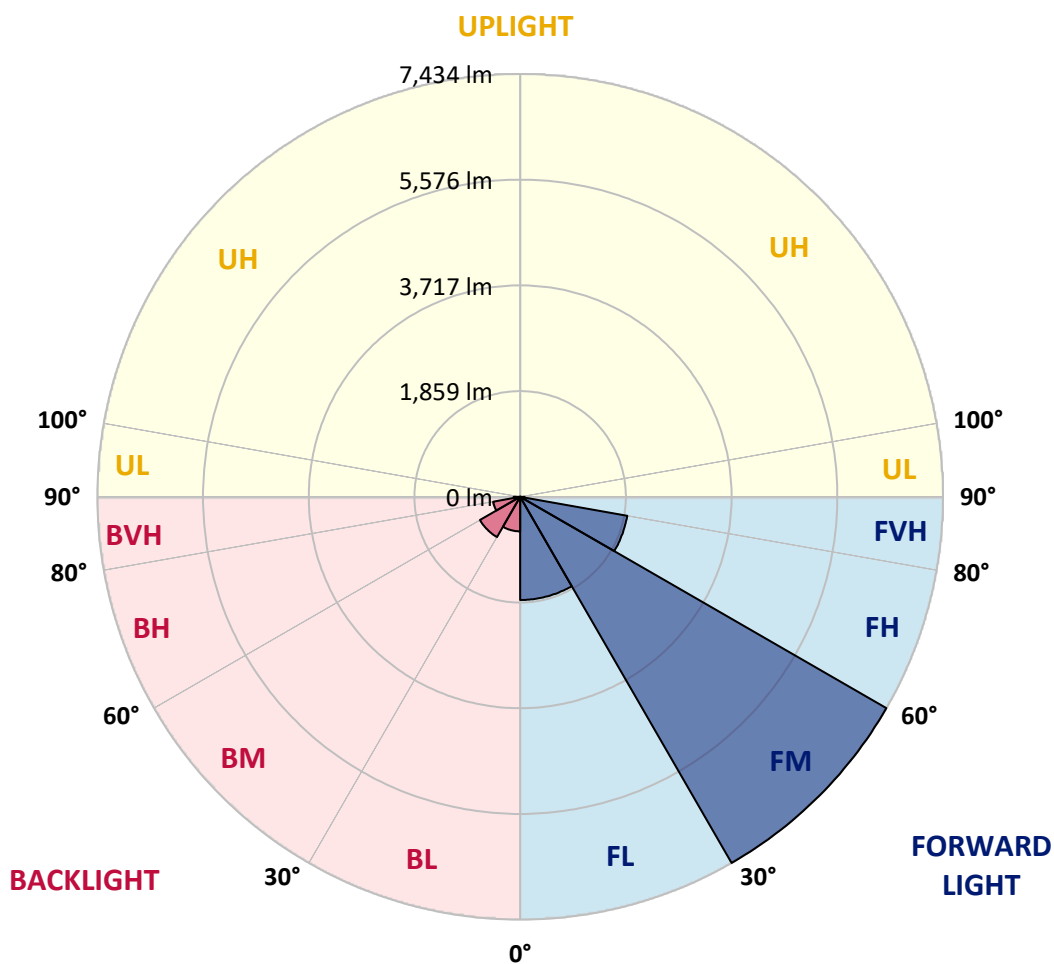
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.6	13.7			
FM	(30°-60°)	7434.1	56.1			
FH	(60°-80°)	1911.6	14.4			G2/5000
FVH	(80°-90°)	75.4	0.6			G1/100
BL	(0°-30°)	607.6	4.6	B2/1000		
BM	(30°-60°)	816.0	6.2	B1/1000		
BH	(60°-80°)	482.4	3.6	B1/500		G1/500
BVH	(80°-90°)	115.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3
2.5°	4023.8	3991.3	3970.7	3952.7	3929.0	3878.3	3810.3	3767.3	3745.4	3671.1	3583.0
5°	4418.3	4389.6	4368.4	4344.0	4301.5	4222.4	4112.4	4025.0	3982.0	3833.5	3657.4
7.5°	4325.9	4337.8	4374.6	4438.8	4493.9	4483.2	4385.2	4274.1	4217.3	4010.7	3743.6
10°	3769.1	3789.7	3853.3	4003.8	4247.2	4497.0	4573.1	4496.3	4438.8	4186.2	3832.2
12.5°	3657.4	3656.8	3661.8	3701.7	3846.5	4198.0	4579.4	4656.7	4622.4	4353.4	3922.7
15°	3702.9	3704.2	3700.5	3717.3	3762.3	3901.4	4388.4	4718.6	4743.0	4521.9	4016.4
17.5°	3822.8	3819.7	3805.3	3805.3	3821.6	3875.9	4163.7	4661.1	4773.5	4671.2	4098.8
20°	4023.8	4009.5	3971.3	3936.4	3918.9	3948.3	4071.2	4528.8	4720.4	4801.6	4166.7
22.5°	4267.2	4255.9	4194.3	4119.3	4058.8	4058.1	4118.6	4413.3	4628.7	4924.6	4224.2
25°	4581.9	4563.8	4472.0	4352.2	4246.1	4205.5	4222.4	4407.7	4578.7	5058.1	4275.5
27.5°	4951.4	4918.3	4809.7	4636.9	4480.7	4399.0	4374.6	4509.4	4624.3	5223.5	4346.6
30°	5399.6	5361.6	5222.4	4997.0	4776.6	4642.4	4590.6	4689.9	4775.4	5425.2	4460.7
32.5°	5909.7	5854.6	5693.6	5445.2	5155.5	4950.7	4866.5	4928.3	4996.3	5668.1	4603.7
35°	6614.3	6548.8	6315.9	5973.3	5646.2	5364.6	5229.8	5274.8	5340.9	6030.1	4810.3
37.5°	7095.1	7065.7	6910.8	6588.8	6233.0	5909.0	5700.5	5726.8	5764.2	6482.7	5075.0
40°	7090.7	7102.5	7105.6	7108.7	6866.6	6556.3	6332.2	6304.8	6297.2	6979.6	5375.9
42.5°	6735.5	6784.1	6941.5	7260.5	7407.8	7265.4	7060.2	6980.8	6941.5	7565.1	5694.9
45°	6191.7	6218.0	6512.6	7135.6	7685.0	7967.7	7812.2	7562.6	7491.5	8103.2	5959.5
47.5°	5911.5	5940.2	6125.6	6804.7	7681.8	8535.2	8625.0	8149.3	8022.1	8571.4	6188.0
50°	5244.2	5304.1	5537.6	6229.2	7401.6	8796.0	9474.6	8848.5	8585.0	9027.0	6417.2
52.5°	4018.8	4111.2	4372.8	5282.9	6690.5	8666.9	10154.4	9696.2	9324.1	9499.0	6613.8
55°	2535.1	2603.6	2823.4	3731.1	5352.2	7994.6	10412.2	10613.2	10282.4	9945.9	6784.1
57.5°	1378.3	1408.9	1491.3	2060.0	3481.3	6508.2	10036.4	11135.0	10997.7	10325.4	6912.8
58°	1233.5	1254.1	1305.3	1785.3	3087.4	6101.9	9869.7	11136.9	11068.3	10381.0	6922.7
60°	915.1	904.5	859.0	1018.8	1718.5	4215.4	8862.2	10691.2	10892.8	10449.0	6874.0
62.5°	804.0	778.5	685.4	674.7	835.9	1942.0	6781.0	9158.1	9634.4	10060.8	6578.2
65°	755.3	727.8	608.0	569.4	603.0	821.5	3994.5	6868.5	7465.8	8883.5	5821.6
67.5°	719.2	683.5	558.7	505.7	508.2	543.1	1601.2	4325.9	4998.3	6744.8	4528.1
70°	684.2	645.5	516.9	455.7	441.3	429.5	636.8	2165.5	2775.3	4260.3	2887.0
72.5°	646.7	608.6	480.0	416.4	388.3	349.0	415.7	885.8	1237.3	2015.7	1309.7
75°	592.4	558.1	443.1	381.5	341.4	289.0	314.0	462.6	554.9	802.7	631.1
77.5°	525.6	497.5	402.0	352.7	302.7	234.7	241.6	320.9	355.8	459.4	375.2
80°	377.7	387.7	357.8	317.1	269.7	190.4	185.4	234.1	252.8	295.2	244.0
82.5°	265.3	271.0	295.9	259.1	222.9	149.8	136.7	164.8	176.0	194.2	131.7
85°	182.9	176.7	202.9	180.4	161.0	99.9	93.6	111.8	118.6	120.5	68.1
87.5°	110.0	110.0	117.4	96.8	86.8	51.8	50.6	63.7	68.1	64.9	37.4
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°	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3	3521.3
2.5°	3530.7	3486.4	3392.1	3316.6	3221.1	3121.7	3066.3	3007.0	2966.4	2937.0	2983.9
5°	3557.5	3467.1	3272.2	3087.4	2883.4	2671.1	2510.0	2360.2	2255.9	2191.0	2252.3
7.5°	3600.0	3460.8	3150.5	2834.6	2468.1	2114.9	1799.1	1601.2	1485.7	1428.9	1464.4
10°	3648.6	3450.7	3007.6	2491.9	1967.5	1522.5	1286.5	1206.7	1180.4	1169.8	1174.7
12.5°	3689.2	3429.5	2832.1	2077.4	1477.5	1202.3	1134.2	1132.4	1137.9	1139.2	1141.1
15°	3718.0	3398.3	2571.9	1645.5	1181.6	1095.6	1091.8	1103.0	1113.7	1118.0	1120.5
17.5°	3737.3	3334.0	2277.8	1301.0	1058.7	1043.8	1052.5	1066.8	1078.1	1081.1	1083.7
20°	3735.5	3239.7	1927.7	1085.0	991.8	991.8	1007.0	1018.1	1018.8	1015.0	1016.8
22.5°	3716.0	3110.5	1588.1	970.1	932.6	943.2	958.2	947.6	903.9	875.1	877.1
25°	3683.5	2956.3	1297.1	897.0	877.7	896.4	892.0	812.2	749.7	721.6	721.6
27.5°	3654.8	2774.1	1073.7	833.3	822.7	845.8	768.4	696.0	669.8	656.6	652.3
30°	3634.3	2577.4	924.5	772.1	771.0	754.1	666.7	646.7	642.3	631.7	628.0
32.5°	3639.3	2378.3	829.0	718.5	722.9	645.5	618.0	622.3	618.6	607.4	602.3
35°	3680.5	2189.2	766.6	669.8	656.6	583.0	589.2	597.4	596.1	580.5	575.6
37.5°	3754.1	2010.1	725.4	629.3	573.1	551.9	561.8	574.2	571.2	560.6	556.7
40°	3831.5	1841.4	691.6	597.4	523.7	530.6	539.3	546.2	549.3	552.5	549.9
42.5°	3907.1	1665.4	650.4	565.0	503.1	510.6	514.4	521.2	538.1	549.9	549.3
45°	3952.0	1500.0	608.0	518.8	486.9	491.2	488.8	502.5	523.2	542.5	543.1
47.5°	4001.9	1371.4	574.2	476.3	471.4	474.4	467.0	480.6	499.5	523.2	525.6
50°	4062.5	1294.6	547.5	442.6	450.0	450.0	448.2	460.6	486.9	514.4	519.3
52.5°	4131.2	1279.7	525.0	418.3	428.9	428.2	430.1	448.8	477.6	504.3	508.7
55°	4214.7	1320.3	500.6	400.1	408.3	410.7	417.0	438.2	462.6	493.2	495.1
57.5°	4312.3	1402.7	481.3	385.8	389.5	397.6	407.6	426.9	453.2	486.9	488.8
58°	4328.5	1420.2	478.1	384.5	385.8	395.2	406.3	425.1	451.4	488.2	490.0
60°	4329.1	1478.2	471.4	378.9	371.4	387.0	399.6	418.3	448.2	492.5	496.9
62.5°	4175.5	1477.5	466.3	370.8	356.4	375.8	390.2	412.0	445.1	503.1	511.9
65°	3676.7	1342.7	442.6	358.3	344.6	365.8	382.1	407.6	453.9	549.3	554.9
67.5°	2875.8	1100.6	398.2	340.8	329.0	355.8	377.1	407.0	463.2	560.0	563.7
70°	1901.4	823.4	349.5	320.9	312.7	343.9	379.5	428.2	452.6	537.4	527.5
72.5°	986.9	578.1	310.3	295.9	294.0	333.3	415.7	425.7	442.0	505.7	493.2
75°	518.1	401.4	275.9	268.4	271.5	330.8	490.7	414.5	428.2	483.8	507.5
77.5°	317.1	324.0	246.6	243.4	249.6	323.4	490.0	400.1	408.3	445.1	471.4
80°	212.3	262.8	224.1	224.7	229.1	295.9	440.1	377.7	383.9	420.7	447.5
82.5°	134.2	155.4	203.5	214.1	208.4	244.0	373.8	343.9	352.7	481.3	508.7
85°	68.1	97.4	176.7	206.0	187.9	171.0	303.4	301.5	305.9	347.1	362.6
87.5°	31.2	53.6	138.0	179.7	141.7	106.7	220.3	223.4	240.9	246.6	246.6
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)