

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: P193093

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
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-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18603.6 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 162
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



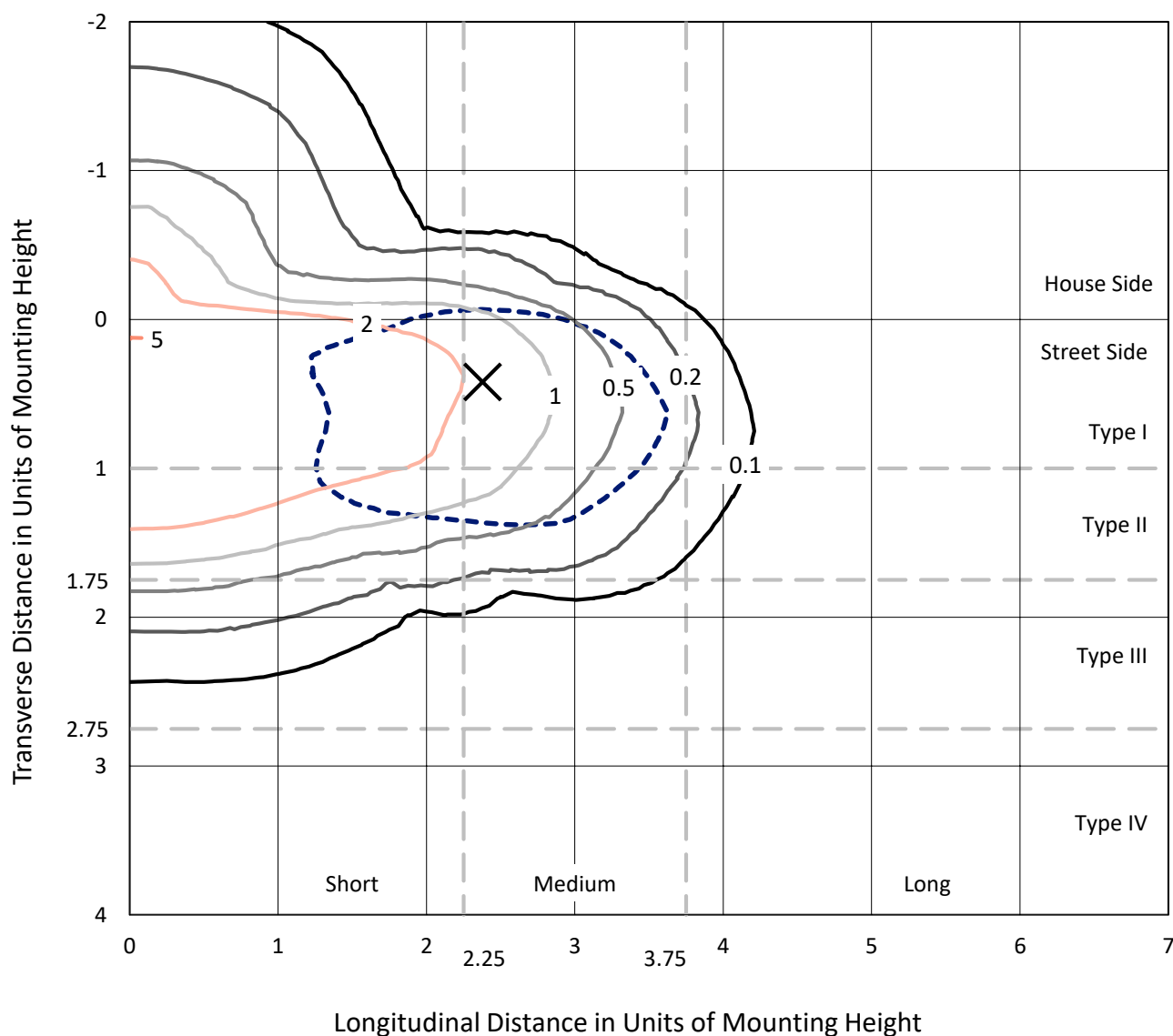
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

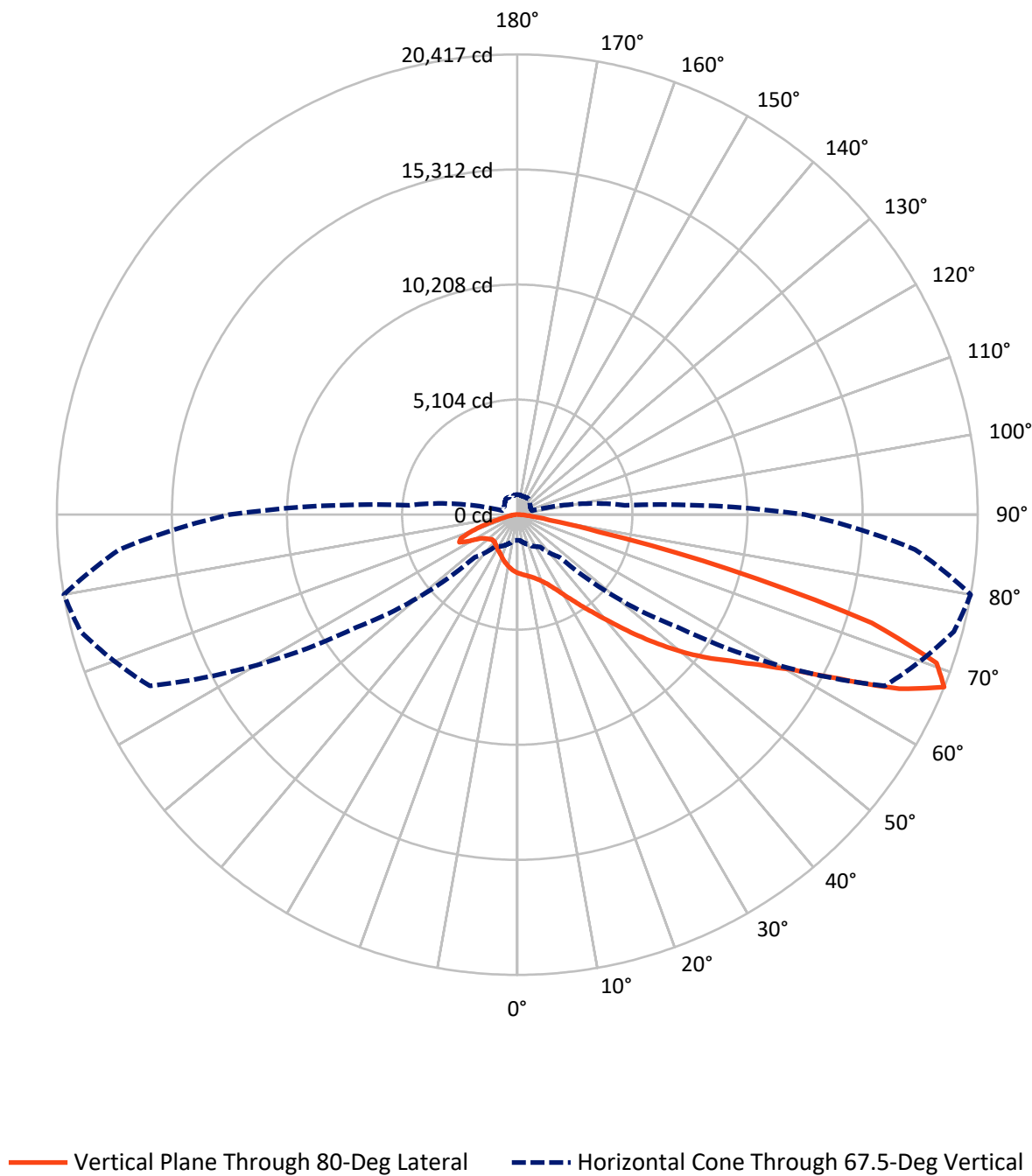


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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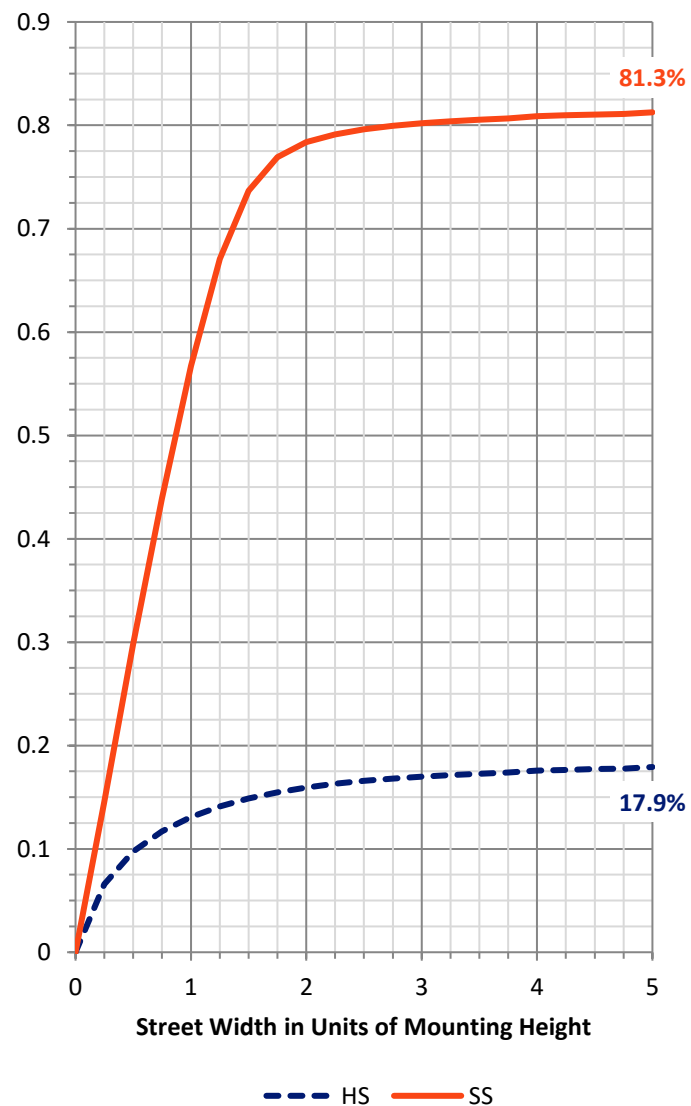
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3426.1	0.0	3426.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	15177.5	0.0	15177.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	18603.6	0.0	18603.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	1.3
10°-20°	686.8	3.7
20°-30°	1136.8	6.1
30°-40°	1859.5	10.0
40°-50°	3002.4	16.1
50°-60°	4334.6	23.3
60°-70°	4783.5	25.7
70°-80°	2204.9	11.9
80°-90°	356.6	1.9
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°	18603.6	100.0
0°-180°	18603.6	100.0

Coefficient of Utilization



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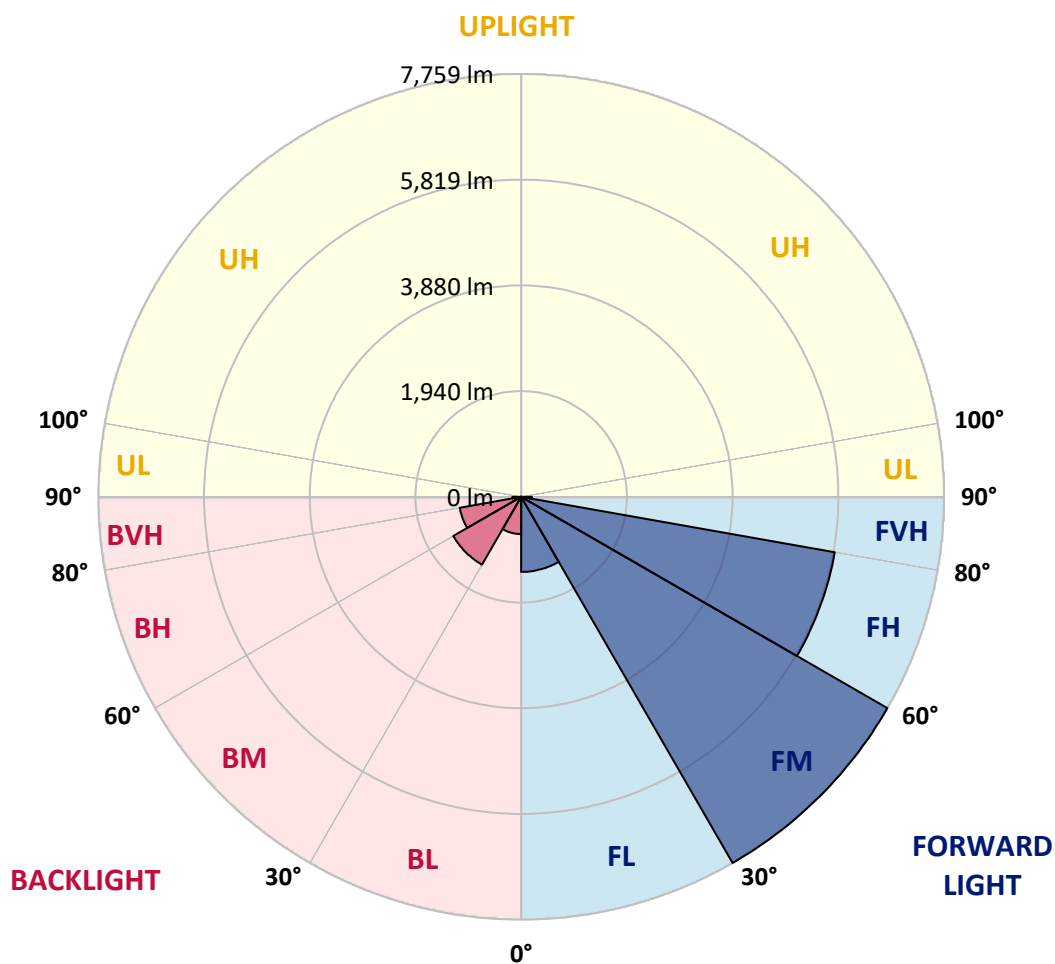
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1378.5	7.4			
FM	(30°-60°)	7759.1	41.7			
FH	(60°-80°)	5843.9	31.4			G3/7500
FVH	(80°-90°)	196.1	1.1			G2/225
BL	(0°-30°)	683.5	3.7	B2/1000		
BM	(30°-60°)	1437.5	7.7	B2/2500		
BH	(60°-80°)	1144.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	160.6	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5
2.5°	2827.3	2810.8	2813.5	2808.9	2795.2	2771.4	2745.8	2699.0	2650.5	2624.9	2604.7
5°	3063.6	3059.0	3052.6	3038.0	3003.1	2953.8	2892.3	2809.9	2721.0	2674.3	2629.5
7.5°	3240.3	3237.6	3229.3	3220.2	3186.3	3126.8	3034.2	2917.0	2787.9	2723.9	2654.2
10°	3255.0	3259.5	3266.0	3290.7	3295.3	3263.2	3168.8	3026.9	2857.4	2775.0	2686.2
12.5°	3130.4	3140.5	3165.2	3228.4	3295.3	3334.7	3286.1	3142.3	2939.0	2839.2	2726.6
15°	2965.7	2971.1	3001.3	3088.3	3208.3	3330.1	3375.9	3269.7	3044.3	2921.6	2786.9
17.5°	2895.1	2897.8	2918.9	2976.5	3088.3	3262.4	3426.3	3407.9	3173.4	3024.2	2861.2
20°	2859.4	2865.8	2896.0	2952.7	3023.3	3175.3	3433.6	3557.3	3327.4	3152.4	2954.6
22.5°	2961.0	2958.3	2969.2	2997.6	3057.2	3148.8	3428.1	3711.1	3523.4	3317.2	3076.4
25°	3198.2	3208.3	3189.1	3157.0	3176.2	3240.3	3457.4	3877.8	3768.8	3528.8	3235.7
27.5°	3536.1	3526.2	3497.7	3422.5	3383.2	3410.6	3554.5	4057.4	4073.7	3807.2	3446.4
30°	3873.2	3864.9	3837.5	3745.9	3665.3	3642.3	3743.1	4263.4	4437.3	4141.6	3704.7
32.5°	4223.1	4213.9	4188.2	4096.6	3999.6	3946.5	4011.5	4501.5	4866.0	4541.0	4008.7
35°	4654.5	4637.1	4583.0	4455.7	4360.4	4319.2	4349.5	4801.0	5360.6	5013.5	4377.8
37.5°	5060.2	5086.7	5031.8	4855.9	4732.2	4717.6	4751.4	5166.5	5893.6	5541.9	4802.0
40°	5467.8	5472.4	5422.9	5279.1	5151.8	5128.0	5213.1	5609.7	6522.8	6173.9	5317.5
42.5°	5889.1	5898.2	5814.9	5682.0	5588.6	5593.2	5690.3	6129.0	7244.6	6918.6	5911.0
45°	6388.2	6401.9	6310.4	6136.3	6051.1	6222.5	6182.1	6711.5	8035.8	7764.7	6592.3
47.5°	6910.2	6931.3	6861.7	6698.6	6592.3	6827.8	6673.9	7357.2	8887.5	8672.4	7340.7
50°	7195.0	7225.4	7293.0	7281.1	7258.2	7218.9	7222.6	8049.5	9765.9	9617.5	8110.0
52.5°	7042.1	7041.2	7288.4	7588.9	7909.4	7933.2	7891.1	8779.5	10586.4	10541.7	8834.4
55°	6342.4	6390.0	6764.6	7346.1	8221.8	8768.5	8893.0	9615.7	11392.5	11444.7	9569.9
57.5°	5177.4	5216.8	5722.4	6532.8	7800.4	9264.9	10318.1	10831.1	12293.7	12537.3	10549.0
60°	3511.5	3559.0	4094.8	5068.4	6666.6	8988.3	11674.6	12999.7	13372.6	13926.7	11922.8
62.5°	2063.5	2106.5	2543.3	3197.3	4693.8	7703.4	12270.0	16085.3	15086.2	16023.1	14018.3
65°	1420.5	1449.9	1662.3	1990.1	2697.3	5188.4	11531.7	18215.7	17723.0	18620.5	16448.1
67.5°	1143.0	1139.3	1307.9	1531.4	1736.4	2675.2	8720.0	17974.8	20042.0	20416.5	17709.2
70°	941.5	937.9	1052.3	1237.4	1387.6	1506.5	4749.7	15168.6	19569.3	19721.4	16547.9
72.5°	787.6	791.2	864.6	1001.9	1138.4	1134.7	2087.3	10670.8	15394.8	16446.2	13191.2
75°	665.0	666.7	715.3	812.4	924.2	914.1	1132.0	5780.9	8949.0	9680.7	7312.2
77.5°	566.0	567.8	599.0	653.1	732.7	729.0	826.1	2497.5	3733.1	3687.3	2501.3
80°	504.7	504.7	519.3	529.4	573.3	556.9	612.7	1199.7	1578.0	1457.2	998.3
82.5°	395.6	397.4	487.2	483.6	451.6	430.5	430.5	707.0	836.2	773.0	584.3
85°	222.6	221.7	314.1	379.1	397.4	303.2	300.4	395.6	455.2	401.2	283.0
87.5°	95.3	97.1	145.7	168.5	225.3	188.7	186.0	204.2	231.7	200.6	131.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5	2584.5
2.5°	2585.5	2561.7	2509.4	2444.4	2385.7	2347.3	2312.6	2262.2	2265.0	2230.1	2204.6
5°	2583.7	2534.2	2413.3	2269.6	2131.2	2031.3	1956.3	1888.5	1872.0	1839.9	1820.7
7.5°	2585.5	2504.9	2301.5	2071.7	1900.4	1774.1	1709.9	1674.2	1665.9	1655.0	1656.0
10°	2591.9	2478.3	2178.8	1886.7	1707.1	1623.8	1608.3	1619.2	1632.2	1635.7	1636.7
12.5°	2606.6	2454.5	2044.2	1721.8	1586.3	1560.7	1587.2	1624.8	1649.5	1661.4	1660.4
15°	2639.4	2436.2	1915.1	1592.7	1519.5	1533.1	1582.6	1635.7	1671.4	1687.9	1688.8
17.5°	2675.2	2409.6	1782.2	1493.8	1470.0	1504.7	1566.1	1628.4	1672.3	1690.7	1694.4
20°	2721.9	2376.7	1643.0	1419.6	1423.2	1462.7	1520.4	1582.6	1631.1	1646.7	1654.0
22.5°	2783.3	2341.0	1521.2	1359.1	1370.1	1400.3	1445.3	1499.2	1541.4	1548.7	1555.2
25°	2865.8	2302.5	1424.2	1304.2	1308.8	1326.2	1356.5	1388.4	1417.7	1409.6	1415.9
27.5°	2976.5	2269.6	1351.9	1253.9	1245.5	1249.3	1264.7	1274.8	1290.5	1267.5	1270.3
30°	3106.6	2233.8	1296.0	1209.8	1187.0	1180.5	1184.3	1189.8	1201.7	1170.5	1165.9
32.5°	3257.8	2190.7	1243.7	1171.4	1139.3	1126.5	1128.3	1143.0	1188.8	1169.5	1159.5
35°	3433.6	2142.2	1188.8	1129.3	1107.3	1089.0	1087.1	1132.9	1269.4	1257.5	1248.3
37.5°	3639.7	2093.6	1133.9	1081.6	1083.6	1063.3	1056.9	1109.1	1285.0	1238.2	1231.8
40°	3901.6	2068.1	1087.1	1031.3	1054.2	1051.4	1038.6	1065.2	1182.4	1097.2	1086.2
42.5°	4225.8	2071.7	1052.3	977.3	1019.4	1048.7	1028.5	1029.4	1071.7	1007.5	997.4
45°	4626.0	2114.7	1027.6	934.1	979.9	1045.9	1024.9	1010.2	1013.8	979.9	974.5
47.5°	5093.1	2203.5	1010.2	898.4	942.5	1035.9	1024.0	1004.7	996.5	978.2	973.6
50°	5612.4	2332.6	997.4	864.6	908.5	1019.4	1024.9	999.1	990.0	982.7	979.9
52.5°	6122.6	2480.1	978.2	835.3	881.9	999.1	1027.6	993.7	983.7	978.2	975.3
55°	6691.4	2664.3	948.8	810.6	860.0	973.6	1027.6	985.5	974.5	975.3	974.5
57.5°	7459.7	2961.9	914.1	789.5	833.4	942.5	1010.2	976.3	962.6	963.4	964.4
60°	8660.4	3486.7	871.9	768.4	800.5	905.8	986.4	956.1	942.5	946.0	947.1
62.5°	10426.3	4257.0	816.9	737.3	765.7	866.4	953.4	930.6	916.8	926.0	926.0
65°	12261.6	4936.6	749.2	697.8	729.0	823.4	912.2	898.4	884.8	905.8	904.8
67.5°	12755.3	4784.5	681.4	654.8	692.3	775.7	862.7	855.4	848.1	884.8	883.0
70°	11331.1	3841.1	619.2	610.9	652.1	724.5	809.6	809.6	805.0	832.5	826.1
72.5°	8633.0	2723.9	559.6	564.3	606.3	668.5	751.9	758.4	751.0	764.7	759.3
75°	4621.4	1558.8	500.1	512.9	549.6	611.9	687.8	694.3	689.7	688.8	691.5
77.5°	1535.8	762.0	437.8	457.9	490.0	553.2	620.9	631.1	620.0	618.2	617.4
80°	684.2	479.0	369.1	395.6	424.0	486.3	550.4	558.7	546.8	563.2	542.2
82.5°	439.7	315.1	295.9	325.1	352.6	419.4	479.8	481.8	470.8	546.8	466.2
85°	213.4	195.0	222.6	249.1	272.9	329.8	397.4	398.4	370.9	337.9	326.0
87.5°	106.2	113.5	148.4	172.2	184.1	226.1	289.4	284.0	272.0	247.3	228.1
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)