Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P191763

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

Report Generated By E9970913

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P191763
	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-05-LED-E1-AFL-7050-800
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(5) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	24659 lumens
Efficiency:	N/A
Efficacy:	117.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short - Full Cutoff
BUG Rating:	B3 - U0 - G2

Input Watts (W):	210
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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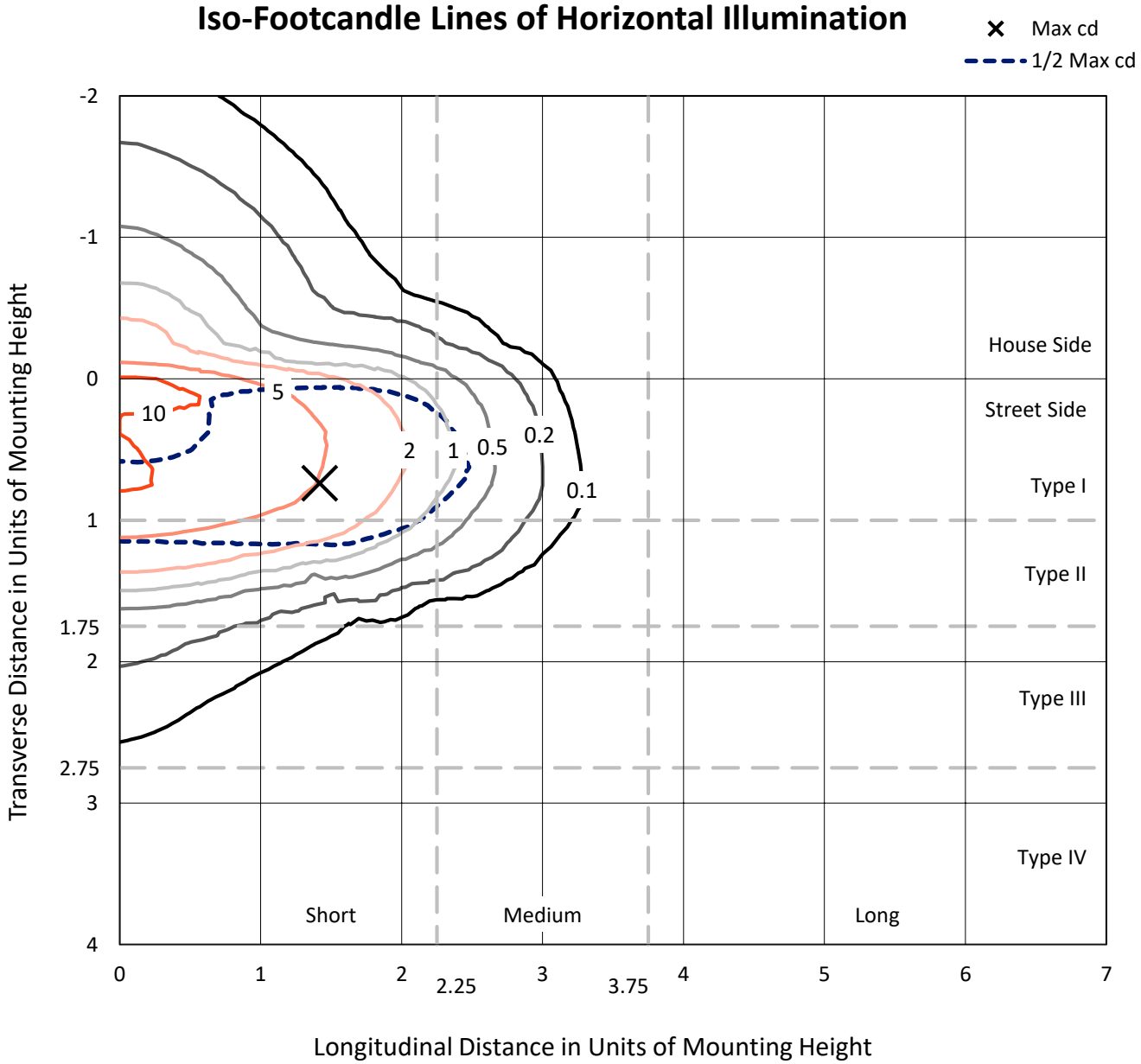
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Short - Full Cutoff

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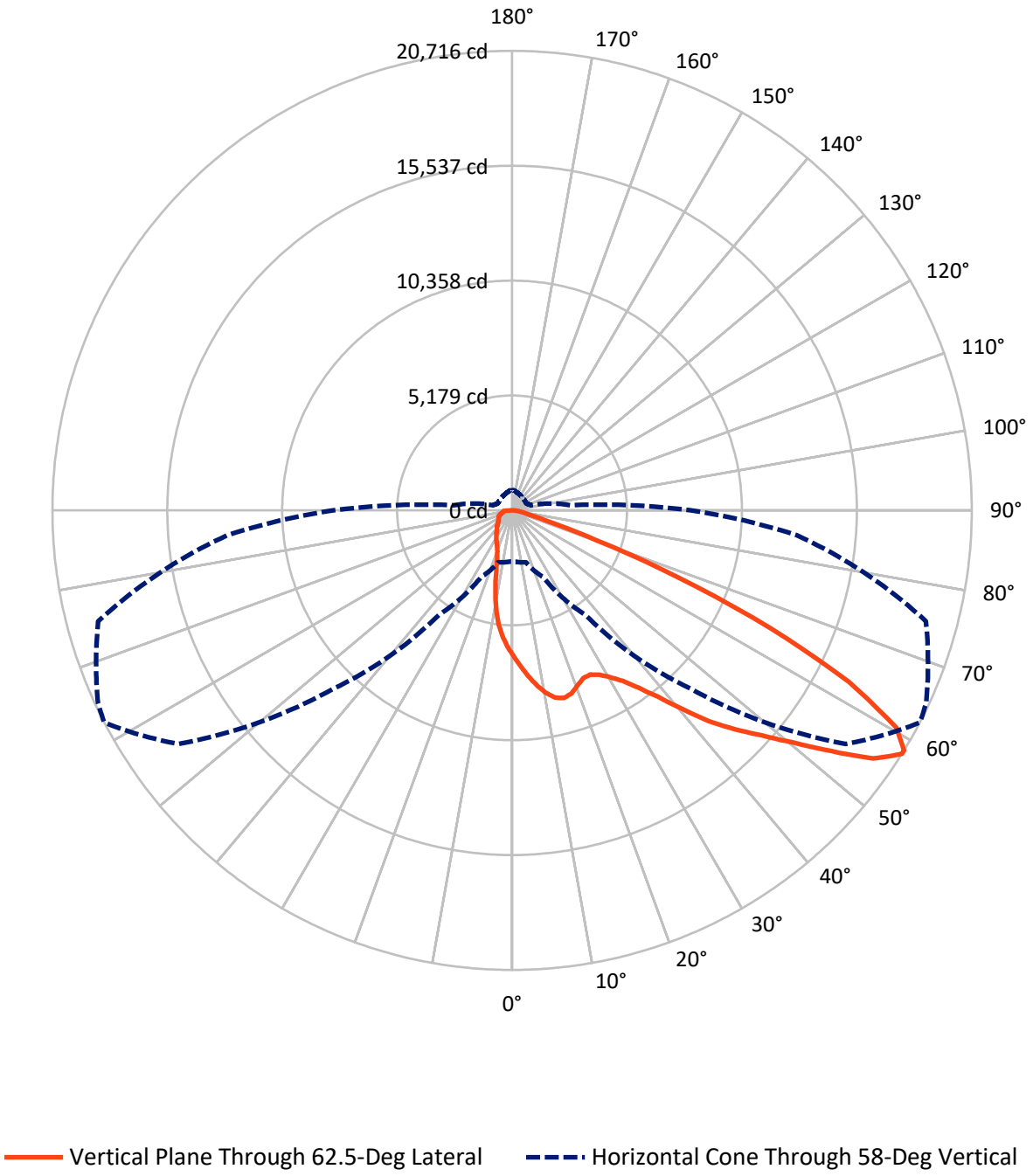
Luminous Intensity Polar Plot



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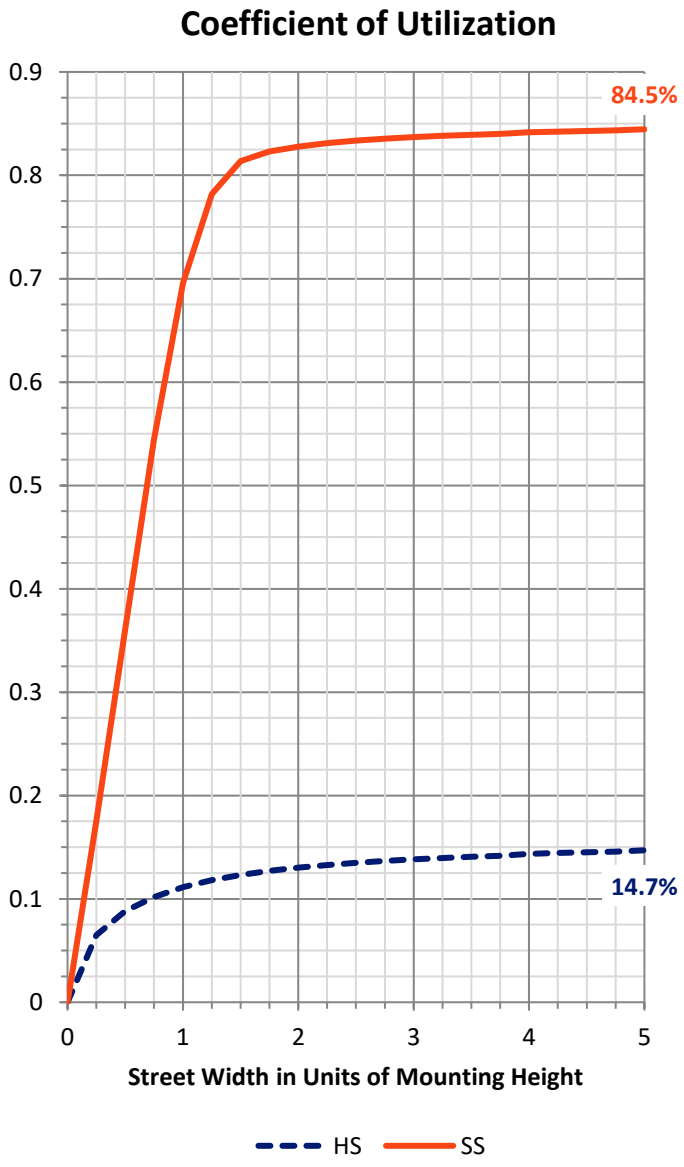
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3760.6	0.0	3760.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20898.4	0.0	20898.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	24659.0	0.0	24659.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.8	2.4
10°-20°	1497.4	6.1
20°-30°	2420.7	9.8
30°-40°	3842.8	15.6
40°-50°	5622.8	22.8
50°-60°	5880.9	23.8
60°-70°	3474.5	14.1
70°-80°	978.8	4.0
80°-90°	355.4	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°	24659.0	100.0
0°-180°	24659.0	100.0



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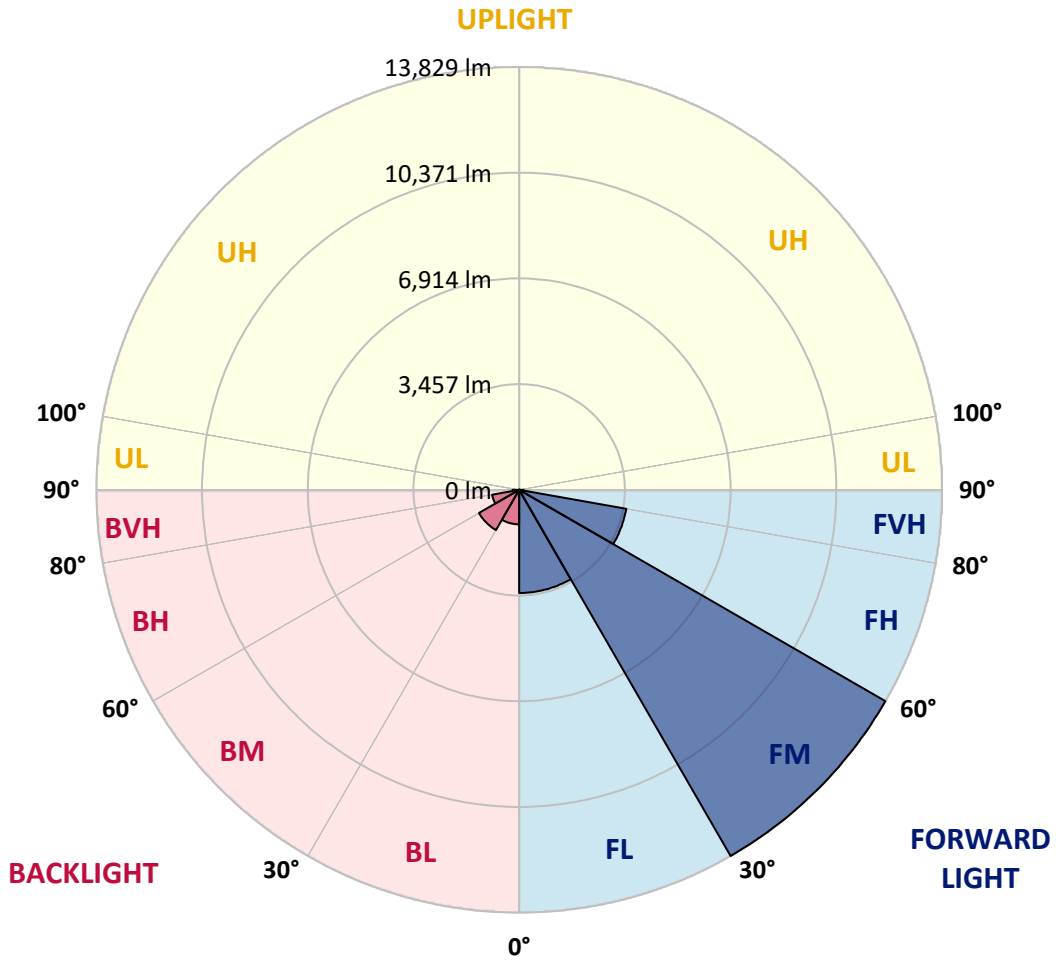
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3373.7	13.7			
FM	(30°-60°)	13828.6	56.1			
FH	(60°-80°)	3555.9	14.4			G2/5000
FVH	(80°-90°)	140.2	0.6			G2/225
BL	(0°-30°)	1130.2	4.6	B3/2500		
BM	(30°-60°)	1517.9	6.2	B2/2500		
BH	(60°-80°)	897.3	3.6	B2/1000		G2/1000
BVH	(80°-90°)	215.2	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-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2
2.5°	7484.9	7424.5	7386.2	7352.5	7308.4	7214.4	7087.8	7007.7	6967.0	6828.8	6665.1
5°	8218.8	8165.3	8125.9	8080.6	8001.6	7854.2	7649.8	7487.2	7407.1	7130.7	6803.3
7.5°	8046.9	8069.0	8137.5	8257.1	8359.3	8339.5	8157.2	7950.5	7844.9	7460.5	6963.5
10°	7011.1	7049.5	7167.9	7447.7	7900.6	8365.1	8506.7	8363.9	8257.1	7786.8	7128.4
12.5°	6803.3	6802.1	6811.4	6885.7	7155.1	7808.9	8518.3	8662.3	8598.5	8098.0	7296.8
15°	6888.1	6890.4	6883.4	6914.8	6998.4	7257.3	8163.0	8777.3	8822.6	8411.5	7471.0
17.5°	7111.0	7105.2	7078.5	7078.5	7108.7	7209.7	7745.0	8670.5	8879.5	8689.0	7624.2
20°	7484.9	7458.2	7387.4	7322.3	7289.8	7344.4	7573.2	8424.3	8780.8	8931.7	7750.8
22.5°	7937.8	7916.9	7801.9	7662.6	7549.9	7548.8	7661.4	8209.5	8610.1	9160.5	7857.6
25°	8523.0	8489.3	8318.6	8095.7	7898.3	7822.8	7854.2	8199.0	8517.2	9409.0	7952.9
27.5°	9210.4	9148.9	8946.8	8625.2	8334.9	8182.8	8137.5	8388.3	8601.9	9716.7	8085.2
30°	10044.1	9973.3	9714.3	9295.2	8885.3	8635.6	8539.2	8723.9	8883.0	10091.7	8297.7
32.5°	10992.8	10890.6	10591.0	10128.9	9590.1	9209.2	9052.5	9167.4	9294.0	10543.4	8563.6
35°	12303.8	12181.8	11748.7	11111.2	10502.8	9979.1	9728.3	9811.9	9935.0	11216.9	8948.0
37.5°	13197.9	13143.3	12855.3	12256.2	11594.3	10991.6	10603.8	10652.6	10722.2	12058.8	9440.3
40°	13189.7	13211.8	13217.6	13223.4	12772.9	12195.8	11778.9	11727.8	11713.9	12983.0	10000.0
42.5°	12529.0	12619.6	12912.2	13505.6	13779.6	13514.9	13132.8	12985.4	12912.2	14072.2	10593.4
45°	11517.6	11566.4	12114.5	13273.3	14295.2	14821.2	14532.0	14067.6	13935.2	15073.2	11085.7
47.5°	10996.3	11049.7	11394.6	12657.9	14289.4	15876.7	16043.9	15159.1	14922.2	15944.0	11510.7
50°	9755.0	9866.5	10300.7	11587.3	13768.0	16362.0	17624.2	16459.6	15969.6	16791.7	11936.8
52.5°	7475.6	7647.5	8134.0	9827.0	12445.4	16121.7	18888.8	18036.5	17344.4	17669.5	12302.6
55°	4715.5	4843.2	5252.0	6940.3	9955.9	14871.1	19368.3	19742.2	19126.8	18500.9	12619.6
57.5°	2563.9	2620.8	2774.0	3831.9	6475.8	12106.4	18669.3	20713.0	20457.5	19206.9	12858.8
58°	2294.5	2332.8	2428.0	3320.9	5743.1	11350.4	18359.3	20716.4	20588.7	19310.3	12877.4
60°	1702.3	1682.5	1597.8	1895.0	3196.7	7841.4	16485.1	19887.4	20262.4	19436.8	12786.8
62.5°	1495.6	1448.0	1275.0	1255.2	1554.8	3612.4	12613.8	17035.5	17921.5	18714.6	12236.4
65°	1405.0	1353.9	1131.0	1059.0	1121.7	1528.1	7430.3	12776.4	13887.6	16524.6	10829.1
67.5°	1337.7	1271.5	1039.2	940.5	945.2	1010.2	2978.4	8046.9	9297.5	12546.4	8423.1
70°	1272.6	1200.6	961.4	847.7	820.9	798.9	1184.4	4028.1	5162.6	7925.0	5370.4
72.5°	1203.0	1132.1	892.9	774.5	722.2	649.1	773.3	1647.7	2301.4	3749.4	2436.1
75°	1102.0	1038.1	824.4	709.5	635.2	537.6	584.1	860.4	1032.3	1493.3	1173.9
77.5°	977.7	925.5	747.8	656.1	563.2	436.6	449.4	596.8	661.9	854.6	697.9
80°	702.5	721.1	665.4	589.9	501.6	354.2	344.9	435.4	470.3	549.2	454.0
82.5°	493.5	503.9	550.4	481.9	414.5	278.7	254.3	306.5	327.4	361.1	245.0
85°	340.2	328.6	377.4	335.6	299.6	185.8	174.2	207.8	220.6	224.1	126.6
87.5°	204.4	204.4	218.3	180.0	161.4	96.4	94.1	118.4	126.6	120.8	69.7
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°	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2	6550.2
2.5°	6567.6	6485.1	6309.8	6169.3	5991.6	5807.0	5703.7	5593.4	5517.9	5463.3	5550.4
5°	6617.5	6449.1	6086.9	5743.1	5363.4	4968.6	4669.1	4390.4	4196.5	4075.7	4189.5
7.5°	6696.5	6437.5	5860.4	5272.9	4591.3	3934.0	3346.5	2978.4	2763.6	2657.9	2724.1
10°	6787.0	6418.9	5594.5	4635.4	3660.0	2832.1	2393.2	2244.5	2195.8	2176.0	2185.3
12.5°	6862.5	6379.5	5268.2	3864.4	2748.5	2236.4	2109.8	2106.4	2116.8	2119.1	2122.6
15°	6915.9	6321.4	4784.0	3060.8	2198.1	2037.9	2030.9	2051.8	2071.5	2079.7	2084.3
17.5°	6951.9	6201.8	4237.1	2419.9	1969.3	1941.5	1957.7	1984.4	2005.3	2011.1	2015.8
20°	6948.4	6026.5	3585.7	2018.1	1845.1	1845.1	1873.0	1893.9	1895.0	1888.1	1891.5
22.5°	6912.4	5786.1	2954.0	1804.5	1734.8	1754.5	1782.4	1762.7	1681.4	1628.0	1631.4
25°	6852.1	5499.3	2412.9	1668.6	1632.6	1667.4	1659.3	1510.7	1394.6	1342.3	1342.3
27.5°	6798.7	5160.2	1997.2	1550.2	1530.4	1573.4	1429.4	1294.7	1245.9	1221.6	1213.4
30°	6760.3	4794.5	1719.7	1436.4	1434.0	1402.7	1240.1	1203.0	1194.8	1175.1	1168.1
32.5°	6769.6	4424.1	1542.0	1336.5	1344.6	1200.6	1149.6	1157.7	1150.7	1129.8	1120.5
35°	6846.3	4072.2	1425.9	1245.9	1221.6	1084.5	1096.1	1111.2	1108.9	1079.9	1070.6
37.5°	6983.3	3739.0	1349.3	1170.5	1066.0	1026.5	1045.1	1068.3	1062.5	1042.7	1035.8
40°	7127.3	3425.5	1286.6	1111.2	974.2	987.0	1003.3	1016.0	1021.8	1027.6	1023.0
42.5°	7267.8	3098.0	1209.9	1050.9	935.9	949.8	956.8	969.6	1000.9	1023.0	1021.8
45°	7351.4	2790.3	1131.0	964.9	905.7	913.8	909.2	934.7	973.1	1009.1	1010.2
47.5°	7444.3	2551.1	1068.3	886.0	876.7	882.5	868.6	894.1	928.9	973.1	977.7
50°	7556.9	2408.3	1018.3	823.3	837.2	837.2	833.7	856.9	905.7	956.8	966.1
52.5°	7684.6	2380.4	976.5	778.0	797.7	796.6	800.0	834.9	888.3	938.2	946.4
55°	7840.2	2455.9	931.3	744.3	759.4	764.0	775.7	815.1	860.4	917.3	920.8
57.5°	8021.4	2609.1	895.3	717.6	724.6	739.7	758.2	794.2	843.0	905.7	909.2
58°	*8051.6*	*2641.7*	*889.5*	*715.3*	*717.6*	*735.0*	*755.9*	*790.8*	*839.5*	*908.0*	*911.5*
60°	8052.7	2749.7	876.7	704.8	690.9	719.9	743.1	778.0	833.7	916.2	924.3
62.5°	7767.1	2748.5	867.4	689.7	663.0	699.0	725.7	766.4	827.9	935.9	952.2
65°	6839.3	2497.7	823.3	666.5	641.0	680.4	710.6	758.2	844.2	1021.8	1032.3
67.5°	5349.5	2047.1	740.8	634.0	611.9	661.9	701.3	757.1	861.6	1041.6	1048.5
70°	3536.9	1531.6	650.3	596.8	581.7	639.8	706.0	796.6	841.8	999.8	981.2
72.5°	1835.8	1075.2	577.1	550.4	546.9	620.1	773.3	791.9	822.1	940.5	917.3
75°	963.8	746.6	513.2	499.3	505.1	615.4	912.7	771.0	796.6	899.9	944.0
77.5°	589.9	602.6	458.7	452.9	464.5	601.5	911.5	744.3	759.4	827.9	876.7
80°	394.8	488.9	416.9	418.0	426.1	550.4	818.6	702.5	714.1	782.6	832.6
82.5°	249.7	289.1	378.5	398.3	387.8	454.0	695.5	639.8	656.1	895.3	946.4
85°	126.6	181.1	328.6	383.2	349.5	318.2	564.3	560.8	569.0	645.6	674.6
87.5°	58.1	99.9	256.6	334.4	263.6	198.6	409.9	415.7	448.2	458.7	458.7
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)