

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: P192679

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412.7 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

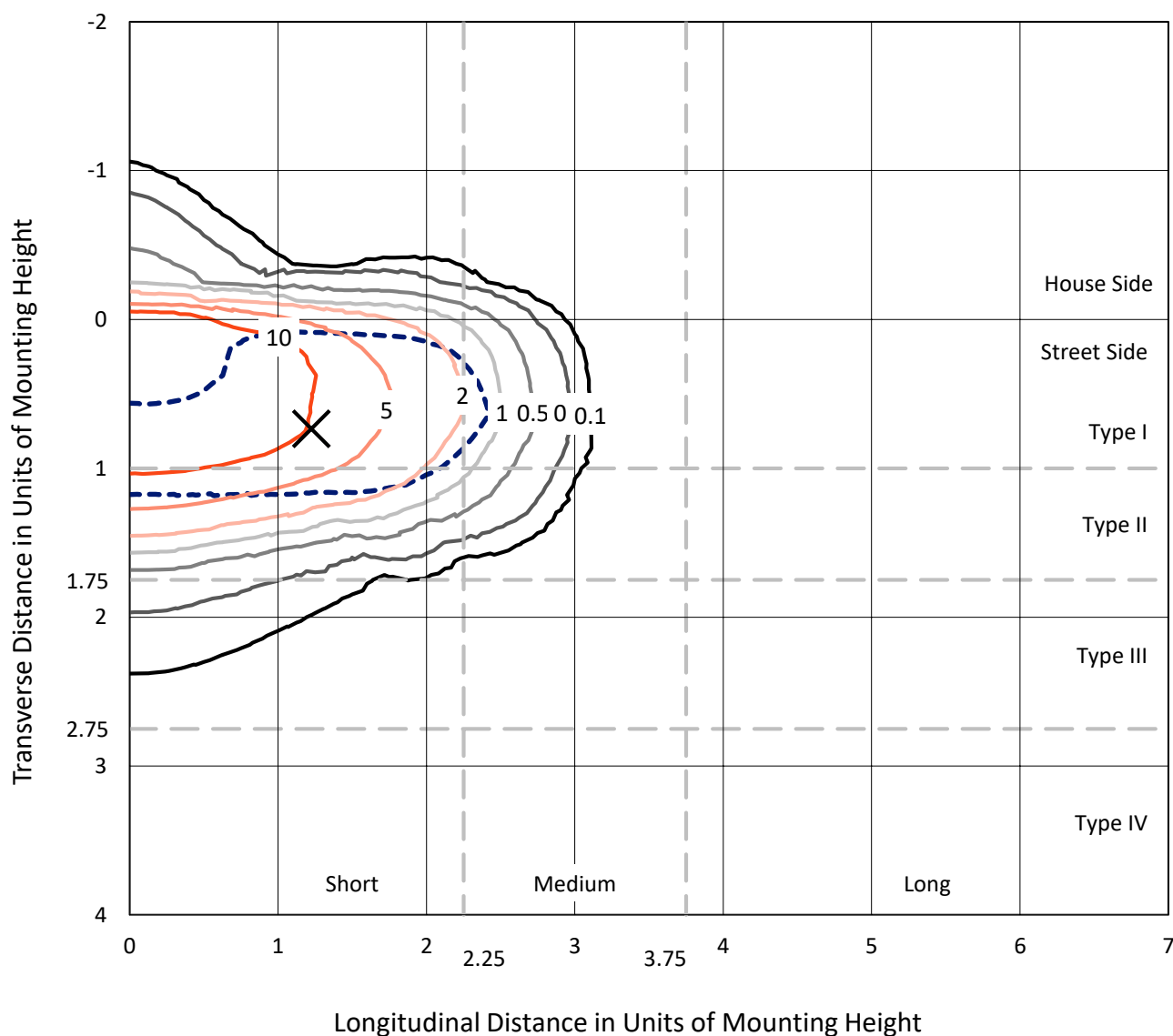


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

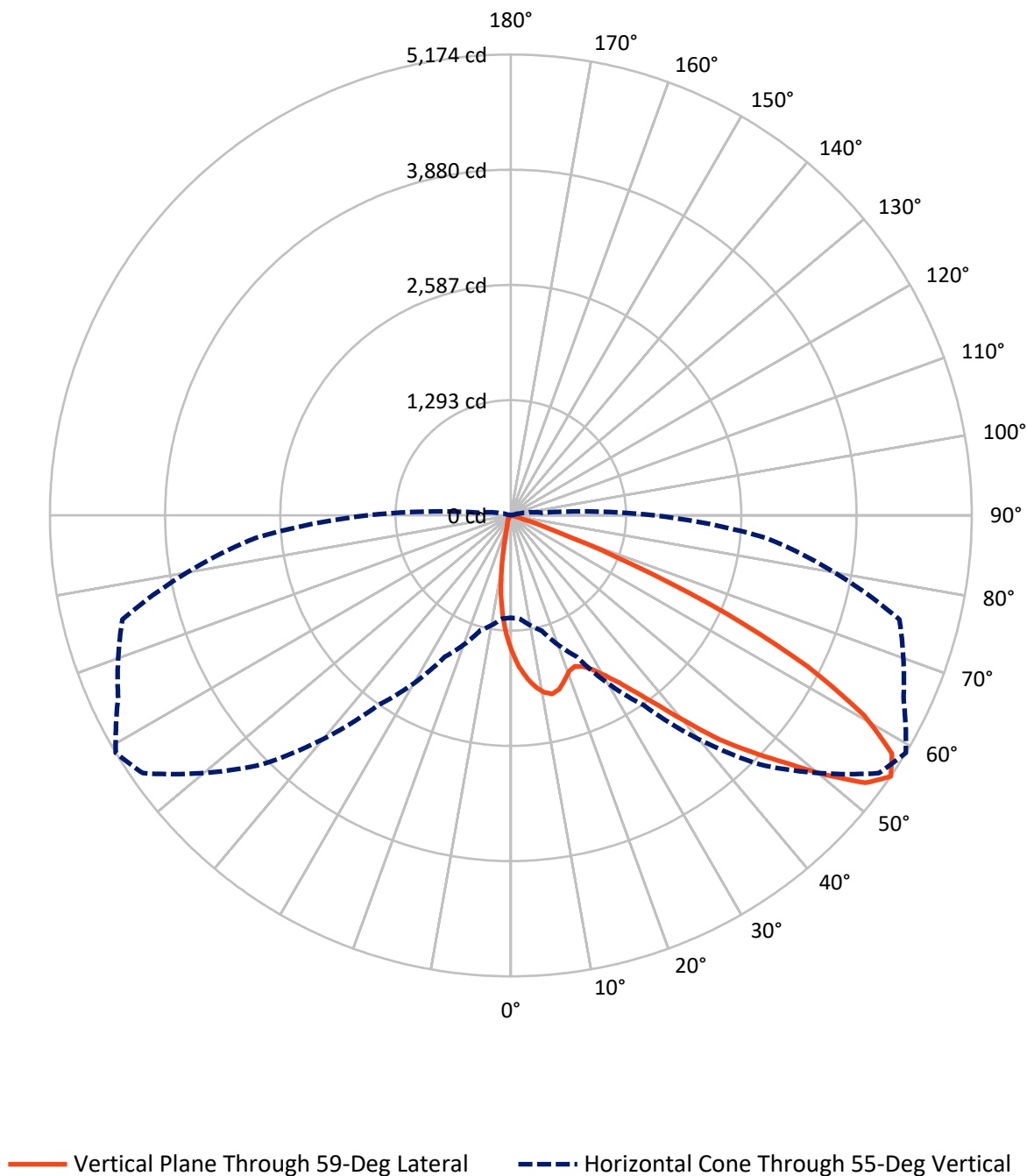


Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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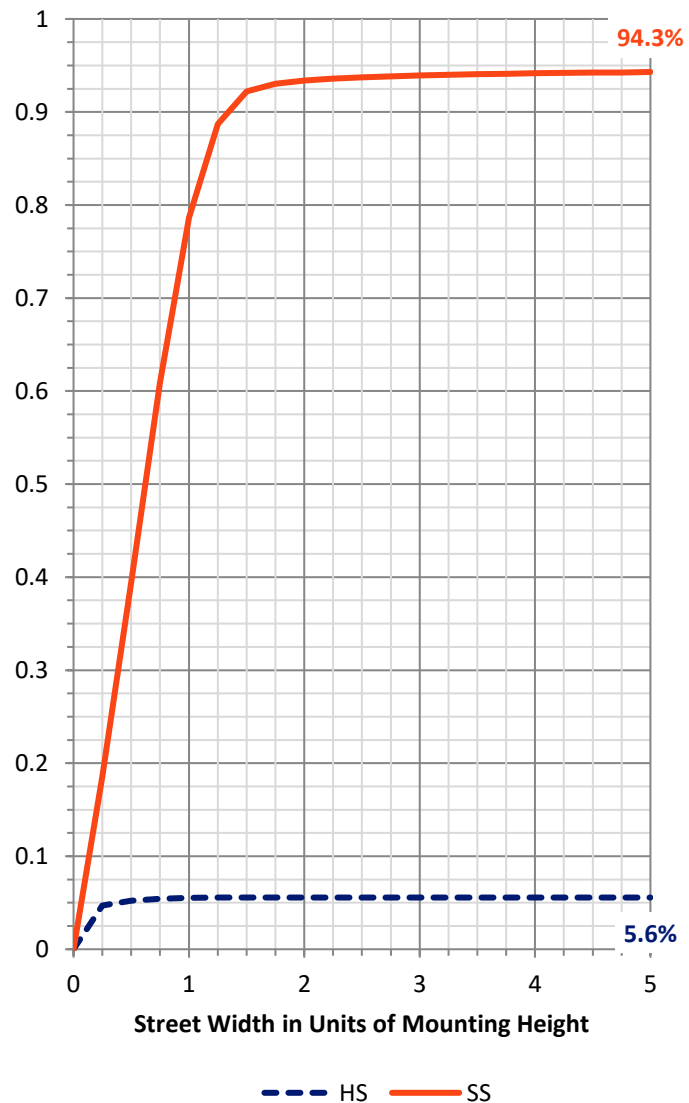
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	302.3	0.0	302.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	5110.4	0.0	5110.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	5412.7	0.0	5412.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	2.4
10°-20°	305.6	5.6
20°-30°	519.9	9.6
30°-40°	894.2	16.5
40°-50°	1380.6	25.5
50°-60°	1387.9	25.6
60°-70°	711.7	13.1
70°-80°	77.1	1.4
80°-90°	8.1	0.1
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°	5412.7	100.0
0°-180°	5412.7	100.0

Coefficient of Utilization



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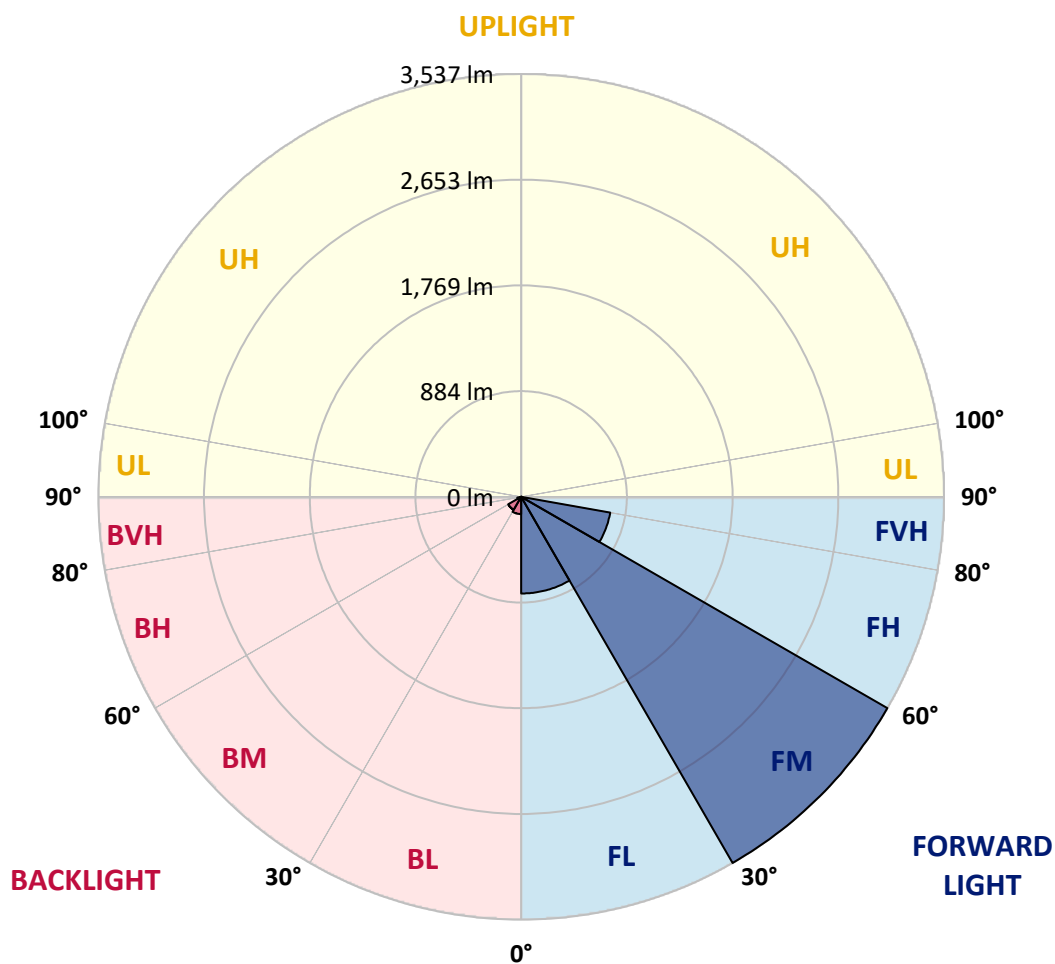
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	808.8	14.9			
FM	(30°-60°)	3537.2	65.3			
FH	(60°-80°)	756.5	14.0			G1/1800
FVH	(80°-90°)	7.9	0.1			G0/10
BL	(0°-30°)	144.3	2.7	B1/500		
BM	(30°-60°)	125.5	2.3	B0/220		
BH	(60°-80°)	32.4	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6
2.5°	1802.9	1783.6	1777.8	1774.1	1756.6	1734.5	1704.5	1690.4	1661.7	1615.3	1558.5
5°	1968.0	1964.5	1951.7	1944.7	1925.8	1894.5	1846.6	1823.6	1777.8	1700.0	1598.1
7.5°	1895.7	1917.8	1935.4	1964.8	2001.8	2000.5	1960.3	1936.4	1885.3	1782.3	1642.1
10°	1616.9	1634.8	1663.6	1730.3	1866.3	1986.6	2033.8	2016.5	1975.6	1858.1	1684.7
12.5°	1562.3	1560.4	1565.4	1585.1	1656.3	1827.5	2021.3	2056.1	2047.8	1927.5	1724.8
15°	1591.4	1589.1	1588.5	1595.1	1612.4	1684.7	1927.8	2027.8	2091.9	1991.6	1759.1
17.5°	1672.9	1663.3	1658.1	1652.6	1647.6	1665.4	1815.4	1948.2	2098.7	2047.8	1787.5
20°	1812.4	1796.4	1777.6	1746.9	1718.2	1709.3	1768.1	1866.3	2074.7	2090.6	1806.0
22.5°	1987.8	1967.3	1934.8	1878.8	1820.4	1786.5	1791.3	1840.5	2038.9	2137.2	1814.7
25°	2184.8	2158.6	2115.3	2037.5	1951.7	1891.6	1860.3	1877.6	2022.6	2191.8	1824.5
27.5°	2396.0	2367.0	2310.1	2204.3	2106.9	2025.7	1961.9	1959.7	2050.4	2263.5	1840.5
30°	2605.2	2600.8	2526.6	2414.8	2285.8	2187.2	2095.1	2083.2	2128.1	2362.5	1872.1
32.5°	2884.5	2850.9	2760.1	2645.1	2496.3	2377.8	2268.9	2241.5	2247.1	2477.8	1921.0
35°	3236.4	3199.6	3072.0	2913.2	2746.8	2606.8	2486.4	2449.0	2435.0	2666.6	2003.5
37.5°	3463.8	3463.2	3383.0	3221.4	3042.9	2888.6	2757.6	2713.8	2685.4	2894.6	2131.2
40°	3470.0	3485.0	3495.4	3493.9	3366.8	3224.6	3108.3	3054.4	2988.2	3199.3	2296.3
42.5°	3283.7	3322.3	3415.3	3573.1	3648.5	3591.9	3493.9	3440.8	3342.5	3525.5	2497.5
45°	3032.0	3058.8	3221.4	3512.0	3801.1	3956.1	3881.3	3786.5	3656.8	3865.7	2678.1
47.5°	2919.2	2924.0	3029.1	3348.2	3812.6	4254.4	4299.8	4145.6	3942.3	4139.8	2819.2
50°	2582.3	2590.9	2735.9	3064.2	3677.8	4395.3	4720.1	4573.8	4253.8	4350.9	2870.7
52.5°	1946.2	1958.4	2142.3	2597.5	3307.3	4335.2	5021.0	4985.6	4594.9	4454.1	2873.5
55°	1148.4	1164.2	1339.9	1748.5	2601.4	3953.2	5043.4	5173.8	4864.2	4515.0	2869.0
57.5°	536.4	547.5	648.1	900.8	1617.9	3124.3	4706.8	5044.7	5012.7	4547.4	2900.8
60°	284.9	288.1	312.4	390.0	731.2	1981.1	4049.7	4555.3	4877.4	4592.0	2939.4
62.5°	217.9	218.8	217.5	226.8	307.2	879.4	3061.0	3745.0	4332.0	4558.6	2896.6
65°	188.8	190.3	181.5	179.1	197.1	313.7	1818.5	2669.4	3404.1	4105.9	2605.0
67.5°	169.3	169.9	159.1	149.8	153.0	169.6	717.4	1461.4	2253.3	3009.6	1888.1
70°	155.9	155.2	143.4	128.7	124.5	116.0	228.1	535.7	1076.8	1526.3	878.1
72.5°	138.0	138.3	132.5	113.4	103.5	81.2	105.8	156.2	321.3	415.8	205.7
75°	122.4	120.7	113.7	101.6	85.3	53.3	52.3	69.6	99.0	98.4	44.4
77.5°	88.5	86.9	89.1	83.4	65.4	34.5	26.2	33.6	40.2	39.0	12.4
80°	64.8	63.9	57.5	69.3	57.8	23.6	16.3	17.9	20.8	17.6	3.9
82.5°	44.4	44.0	40.5	38.4	32.9	14.4	10.3	11.2	13.4	10.0	1.9
85°	7.0	7.9	29.4	23.3	19.4	6.3	7.0	7.6	9.0	5.5	0.6
87.5°	0.0	0.0	13.7	12.1	3.9	2.5	4.2	4.5	4.5	2.8	0.0
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°	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6	1523.6
2.5°	1529.4	1497.5	1438.4	1377.3	1320.8	1253.4	1207.1	1172.3	1132.0	1121.2	1144.8
5°	1539.9	1479.6	1352.4	1214.1	1084.2	940.0	829.9	742.6	663.8	637.0	661.2
7.5°	1556.5	1466.8	1259.5	1031.7	805.6	580.7	426.7	325.5	261.0	241.8	252.1
10°	1573.2	1448.2	1151.8	815.8	506.6	282.7	184.0	147.0	133.2	130.3	131.8
12.5°	1586.9	1423.3	1020.6	580.0	270.9	151.5	120.4	114.4	112.4	112.4	113.1
15°	1595.1	1385.6	865.0	369.0	155.9	114.4	105.1	103.1	103.1	103.5	104.2
17.5°	1594.2	1337.8	694.8	223.3	116.6	101.3	95.8	94.2	94.0	94.5	94.8
20°	1582.4	1275.2	523.9	147.3	101.6	92.4	86.9	84.0	83.7	84.3	85.0
22.5°	1560.1	1197.8	374.6	113.4	91.7	83.7	77.0	74.4	74.4	75.1	75.7
25°	1532.9	1103.3	256.2	96.1	82.7	74.4	68.1	65.8	66.4	68.1	68.4
27.5°	1499.0	996.9	174.0	82.4	71.9	65.1	60.4	58.8	60.4	62.6	63.3
30°	1470.0	886.1	124.2	71.2	60.9	56.3	53.3	53.3	55.6	59.8	60.6
32.5°	1447.6	778.8	95.8	63.0	53.0	48.8	47.3	48.8	52.3	56.5	57.5
35°	1444.7	690.3	81.2	56.3	47.3	43.1	42.5	45.4	48.8	52.1	52.7
37.5°	1466.8	608.5	73.1	50.8	42.2	38.4	37.7	41.2	44.7	48.5	49.5
40°	1508.7	544.3	67.4	45.7	38.0	33.9	32.6	35.2	39.9	45.1	46.3
42.5°	1563.0	491.2	60.9	40.5	33.9	28.1	26.6	29.4	34.5	39.9	41.5
45°	1614.8	445.6	54.0	34.9	28.4	21.8	21.1	24.9	27.5	32.9	34.2
47.5°	1643.2	405.4	48.0	28.4	22.1	17.6	17.6	18.6	21.1	27.5	28.7
50°	1633.5	373.1	41.5	21.1	15.3	13.4	13.4	13.1	16.9	22.1	23.0
52.5°	1614.5	354.5	35.7	16.3	10.5	9.7	8.6	9.7	11.8	14.1	14.4
55°	1611.5	351.4	30.0	13.1	7.3	6.3	4.8	4.8	4.8	4.5	3.9
57.5°	1633.9	356.5	25.2	10.5	5.5	4.2	2.5	0.0	0.0	0.0	0.0
60°	1656.8	361.8	21.8	7.3	3.9	2.1	0.3	0.0	0.0	0.0	0.0
62.5°	1618.5	349.7	18.2	4.5	2.8	1.0	0.0	0.0	0.0	0.0	0.0
65°	1421.8	297.7	14.4	3.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1011.3	199.3	9.7	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	461.6	83.4	6.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	98.7	25.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.1	18.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.3	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.9	21.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)