

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: P193209

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4060 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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



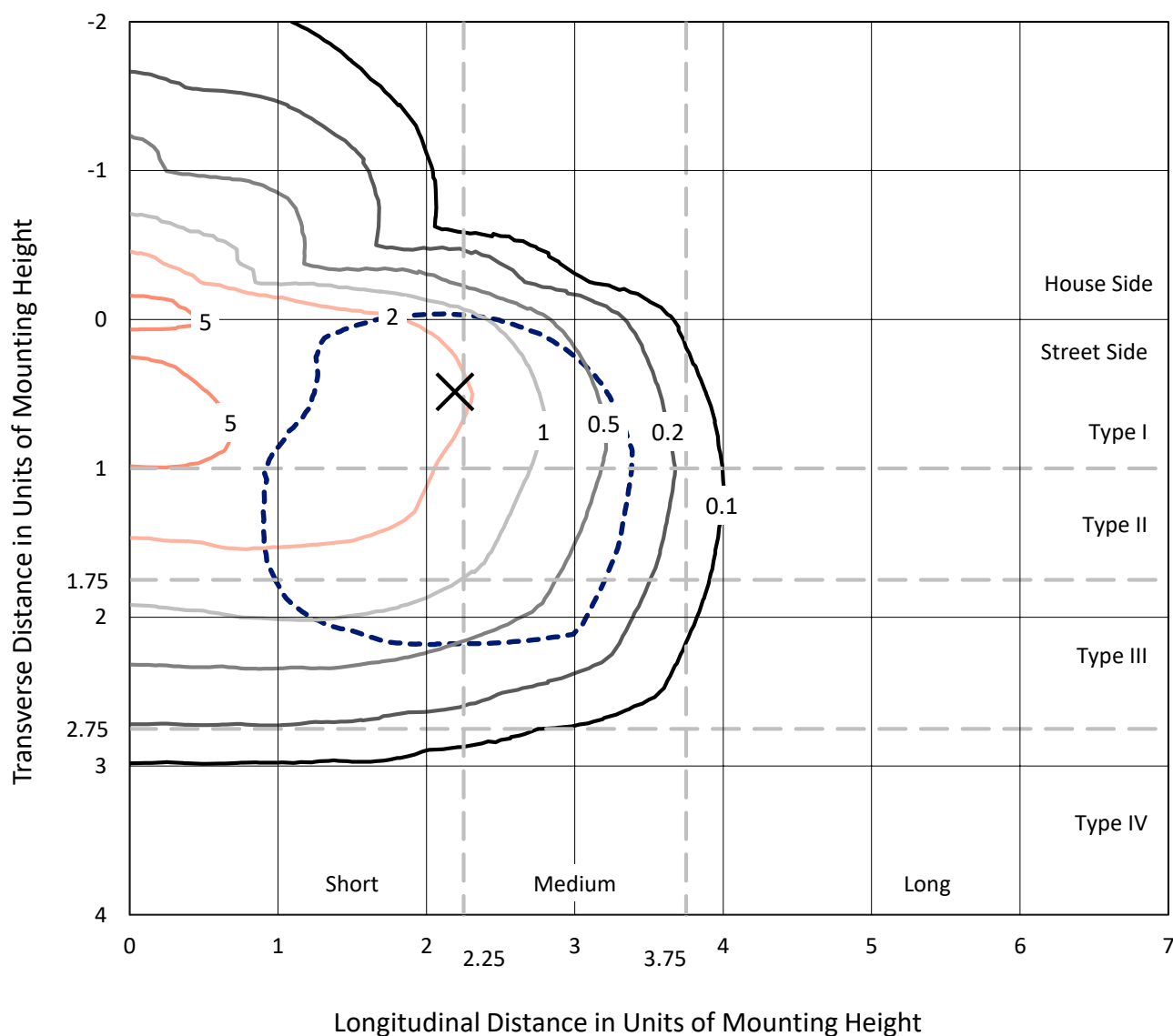
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

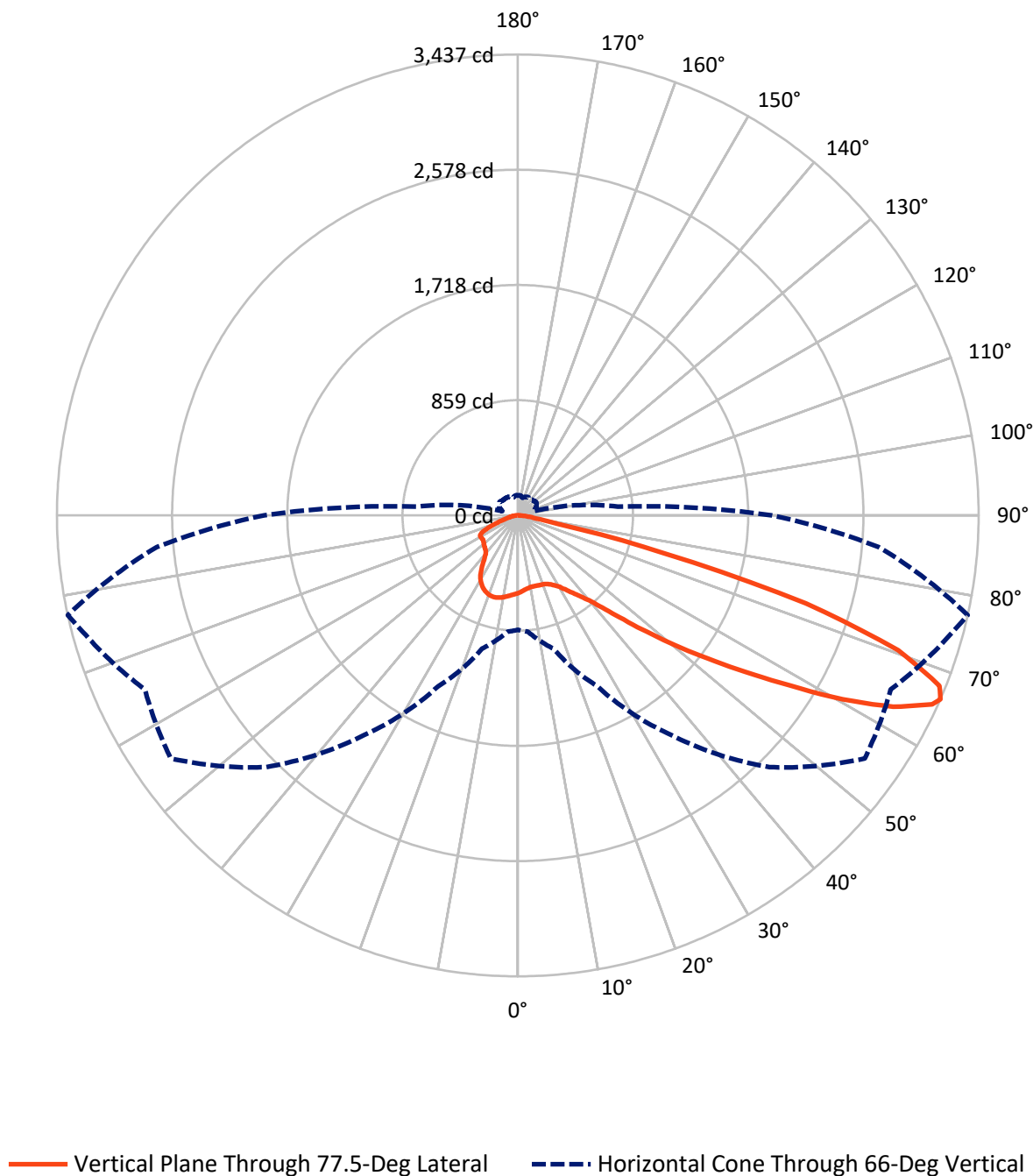


Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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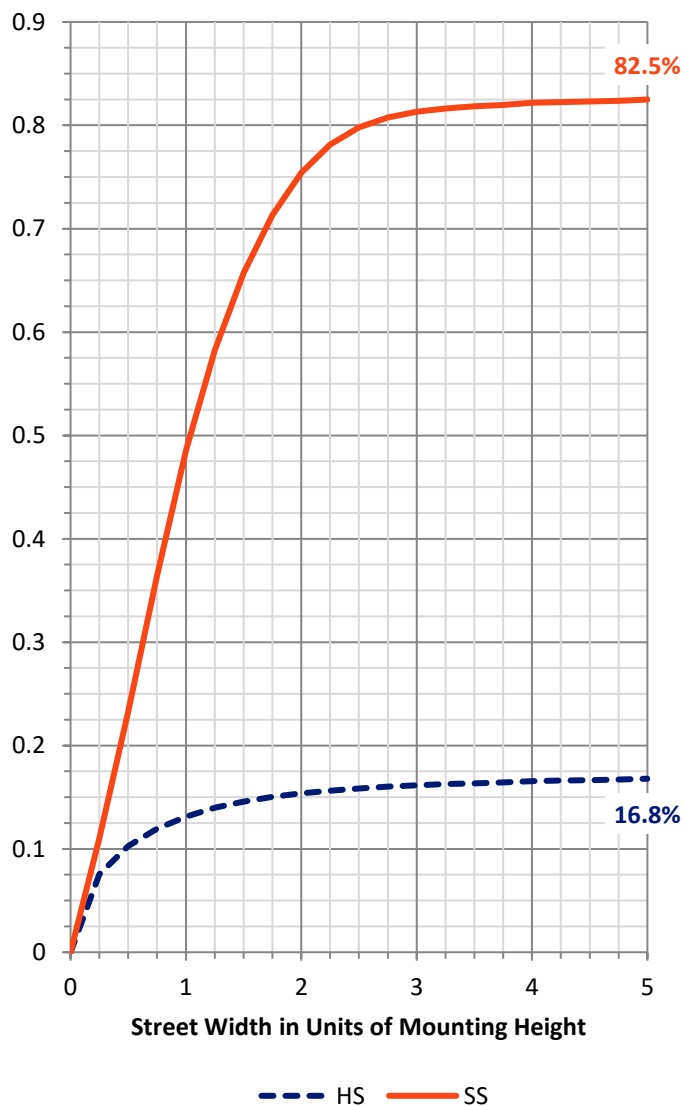
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.6	0.0	693.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3366.4	0.0	3366.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	4060.0	0.0	4060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.3
10°-20°	145.8	3.6
20°-30°	248.9	6.1
30°-40°	398.4	9.8
40°-50°	615.5	15.2
50°-60°	873.0	21.5
60°-70°	1167.8	28.8
70°-80°	507.2	12.5
80°-90°	51.7	1.3
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°	4060.0	100.0
0°-180°	4060.0	100.0

Coefficient of Utilization



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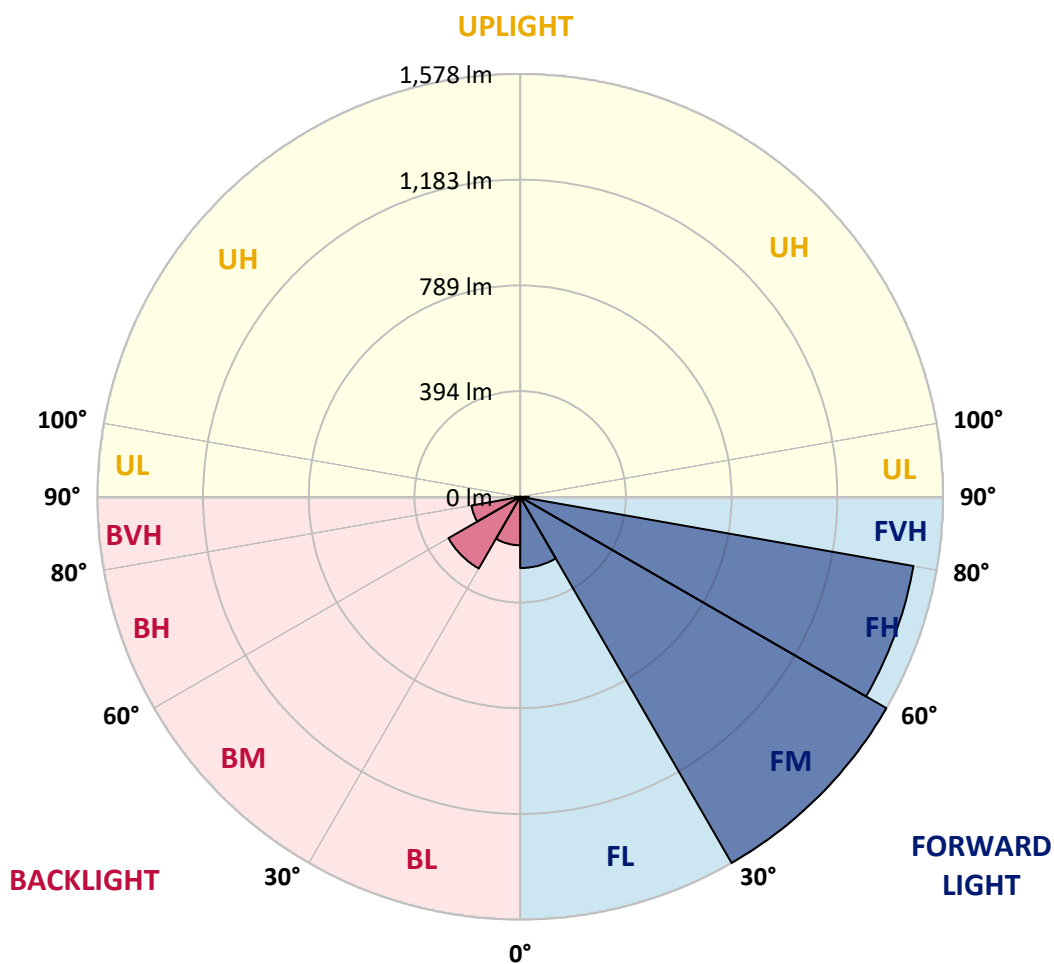
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.8	6.5			
FM	(30°-60°)	1578.0	38.9			
FH	(60°-80°)	1490.3	36.7			G1/1800
FVH	(80°-90°)	32.4	0.8			G1/100
BL	(0°-30°)	180.7	4.4	B1/500		
BM	(30°-60°)	309.0	7.6	B1/1000		
BH	(60°-80°)	184.7	4.5	B1/500		G1/500
BVH	(80°-90°)	19.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5
2.5°	511.8	515.2	518.1	520.8	526.2	535.1	545.2	553.4	565.3	567.6	573.9
5°	464.8	464.8	467.1	471.1	478.4	491.6	505.6	523.9	549.8	555.9	572.8
7.5°	442.0	442.2	443.5	447.0	453.3	465.5	480.5	502.3	537.3	547.5	576.3
10°	450.4	448.5	445.7	443.9	444.9	452.0	466.3	490.6	529.7	542.7	584.0
12.5°	497.6	494.0	484.0	470.8	458.2	452.9	461.4	485.0	526.4	541.6	594.2
15°	574.7	573.2	554.6	527.1	496.5	470.8	465.0	482.8	526.7	542.9	606.2
17.5°	671.4	669.3	644.7	604.9	554.8	504.7	477.9	484.6	528.2	545.2	617.9
20°	769.0	762.5	736.1	688.6	624.2	551.0	499.2	489.1	529.9	547.7	630.2
22.5°	842.0	836.6	812.8	766.6	692.4	604.5	527.7	496.7	535.4	555.0	645.2
25°	906.1	906.5	882.9	838.1	761.6	661.2	564.6	517.3	549.6	569.9	666.1
27.5°	985.3	980.7	958.6	914.3	830.0	718.6	609.1	545.4	570.7	591.2	693.2
30°	1080.0	1076.8	1051.3	1001.1	905.6	780.2	659.9	578.2	597.9	619.3	729.0
32.5°	1191.5	1190.0	1163.5	1098.8	993.1	852.8	719.6	621.5	638.6	660.7	780.2
35°	1322.4	1322.5	1291.2	1213.6	1088.9	937.1	787.3	677.4	688.2	711.2	841.2
37.5°	1402.9	1412.7	1401.0	1321.7	1197.3	1031.5	875.1	751.3	744.5	767.8	906.7
40°	1420.2	1432.1	1469.1	1428.8	1318.5	1135.5	953.1	822.6	814.0	842.4	990.9
42.5°	1396.0	1412.5	1490.8	1519.1	1447.2	1263.6	1057.7	928.2	917.3	955.6	1095.6
45°	1381.6	1393.9	1484.4	1566.1	1558.9	1408.5	1191.2	1061.0	1057.0	1107.2	1216.4
47.5°	1356.7	1367.8	1454.9	1577.0	1624.4	1541.2	1351.3	1223.3	1231.3	1296.8	1352.8
50°	1370.1	1374.7	1421.9	1549.3	1643.5	1638.5	1530.2	1411.3	1438.2	1520.2	1507.2
52.5°	1368.2	1380.1	1418.0	1503.6	1646.0	1698.6	1706.6	1621.0	1677.5	1771.6	1678.5
55°	1106.1	1128.0	1373.0	1492.2	1654.7	1757.4	1863.5	1842.0	1947.5	2057.1	1871.9
57.5°	1056.2	1070.0	1205.9	1516.3	1701.6	1869.9	2038.1	2085.2	2261.7	2389.0	2107.5
60°	1046.4	1063.5	1204.1	1545.8	1796.5	2053.1	2296.8	2379.7	2644.1	2783.4	2380.6
62.5°	1016.0	1034.3	1192.9	1541.9	1931.3	2306.5	2628.1	2692.8	3006.7	3142.1	2609.2
65°	919.3	936.6	1100.6	1480.0	2022.4	2577.0	3020.3	2979.8	3292.8	3394.8	2723.2
66°	853.1	870.0	1027.9	1407.1	2001.2	2653.7	3159.1	3068.6	3357.0	3436.7	2700.9
67.5°	732.0	745.2	886.6	1243.9	1889.0	2675.2	3276.0	3135.4	3363.6	3391.9	2573.7
70°	462.5	466.3	576.3	858.7	1429.9	2320.1	3098.1	2969.6	3086.2	3009.9	2157.6
72.5°	200.7	199.3	276.7	436.8	809.5	1556.7	2506.2	2450.3	2420.9	2246.8	1510.3
75°	111.7	113.2	143.6	202.7	329.0	764.7	1639.4	1568.9	1324.7	1130.3	684.8
77.5°	89.6	91.7	119.1	143.9	147.7	266.7	767.1	624.2	375.9	301.5	190.3
80°	70.8	74.7	104.1	112.0	99.5	110.0	247.8	198.2	148.7	136.3	98.6
82.5°	56.0	58.7	89.1	84.7	69.6	74.1	118.8	115.7	96.7	88.1	57.0
85°	40.3	45.3	73.3	63.9	45.7	49.9	78.8	75.6	55.4	45.3	25.1
87.5°	16.5	21.6	51.8	42.4	25.5	23.2	39.4	37.0	26.3	19.2	12.4
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°	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5	578.5
2.5°	578.0	582.6	588.6	592.1	594.2	595.5	597.5	597.4	597.9	598.2	599.0
5°	581.8	589.6	598.2	600.5	600.5	598.3	596.2	592.7	591.4	591.1	591.4
7.5°	591.8	600.3	607.7	605.1	599.3	590.9	579.9	570.4	565.2	563.4	563.0
10°	604.5	614.7	617.8	607.6	590.6	570.4	548.7	532.9	523.9	521.3	520.6
12.5°	619.8	629.5	625.2	603.6	572.4	539.6	509.7	484.6	465.8	459.9	459.4
15°	636.7	644.2	629.5	591.8	545.2	496.9	443.5	400.2	376.7	369.3	368.8
17.5°	652.4	656.3	626.9	571.1	505.1	426.8	356.0	322.7	314.6	316.6	317.0
20°	665.8	665.8	618.5	541.4	442.0	334.6	289.9	289.3	295.0	300.8	302.0
22.5°	680.6	671.8	603.6	499.4	352.6	273.8	267.2	272.6	279.1	285.5	286.4
25°	698.8	676.7	583.2	435.6	277.2	248.7	251.1	255.5	258.8	262.8	263.5
27.5°	719.2	682.8	556.1	348.0	240.6	232.9	234.8	236.3	236.0	237.5	237.8
30°	743.5	689.9	519.1	272.0	225.4	219.5	216.0	214.7	214.7	217.2	218.1
32.5°	776.2	700.4	466.0	233.0	218.1	209.9	198.8	193.7	195.7	204.1	206.1
35°	812.1	711.8	394.0	219.8	216.6	205.4	188.2	178.9	179.1	187.1	189.6
37.5°	851.1	726.1	315.2	217.3	220.0	205.6	182.7	170.0	164.8	164.8	165.7
40°	901.3	740.9	255.1	219.1	227.4	207.9	179.7	162.9	148.3	148.7	149.4
42.5°	966.5	753.6	222.9	222.7	236.1	211.0	179.5	153.5	140.8	149.4	157.4
45°	1038.9	759.9	208.6	225.9	243.2	212.9	176.5	152.0	141.8	167.5	182.5
47.5°	1122.4	756.2	200.8	227.2	245.0	212.9	173.0	155.5	148.5	193.9	211.4
50°	1214.0	745.7	193.2	224.8	244.4	212.5	176.4	159.2	151.0	198.6	210.7
52.5°	1321.6	736.9	185.0	219.8	240.4	210.5	180.2	157.7	143.1	180.5	188.9
55°	1444.3	739.3	176.1	212.7	234.1	206.4	178.7	151.6	134.8	159.1	164.2
57.5°	1601.3	769.0	165.3	203.8	225.4	199.7	174.0	148.7	132.3	144.2	147.3
60°	1776.4	820.9	152.0	194.7	214.7	188.9	170.3	150.0	133.6	143.1	144.7
62.5°	1904.9	851.0	140.4	181.5	200.1	177.1	165.7	151.8	136.6	147.2	146.7
65°	1939.9	801.5	126.0	162.1	180.3	164.6	159.9	153.6	137.8	150.4	148.7
66°	1891.0	748.2	119.7	153.1	170.3	158.4	157.2	153.5	137.3	150.8	147.9
67.5°	1772.1	638.8	108.8	139.9	154.4	149.2	152.5	151.8	135.8	150.4	146.4
70°	1445.3	435.8	93.1	116.5	128.5	131.4	143.6	145.7	130.8	143.6	134.8
72.5°	1009.9	265.5	82.3	90.3	104.1	112.0	131.5	137.1	124.1	125.4	117.0
75°	488.1	141.1	74.7	70.0	80.8	93.6	117.0	125.6	113.5	104.9	101.8
77.5°	152.1	86.1	63.3	56.4	63.3	75.6	97.8	110.2	101.1	87.9	86.8
80°	81.7	63.3	48.7	45.3	50.0	59.3	76.9	91.9	86.9	78.8	70.4
82.5°	53.9	41.1	36.0	35.1	38.1	45.3	57.2	76.2	76.2	67.5	49.0
85°	27.9	25.1	24.7	24.7	26.7	30.1	38.9	58.7	62.5	35.7	29.5
87.5°	13.7	14.4	13.4	13.9	15.0	14.7	18.6	29.5	35.3	21.7	18.0
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)