

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: LUMARK

Report Number: P381383

Luminaire Tested: **PRV-PA2B-8540-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-8540-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10768.6 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 151
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: 28.75 FT

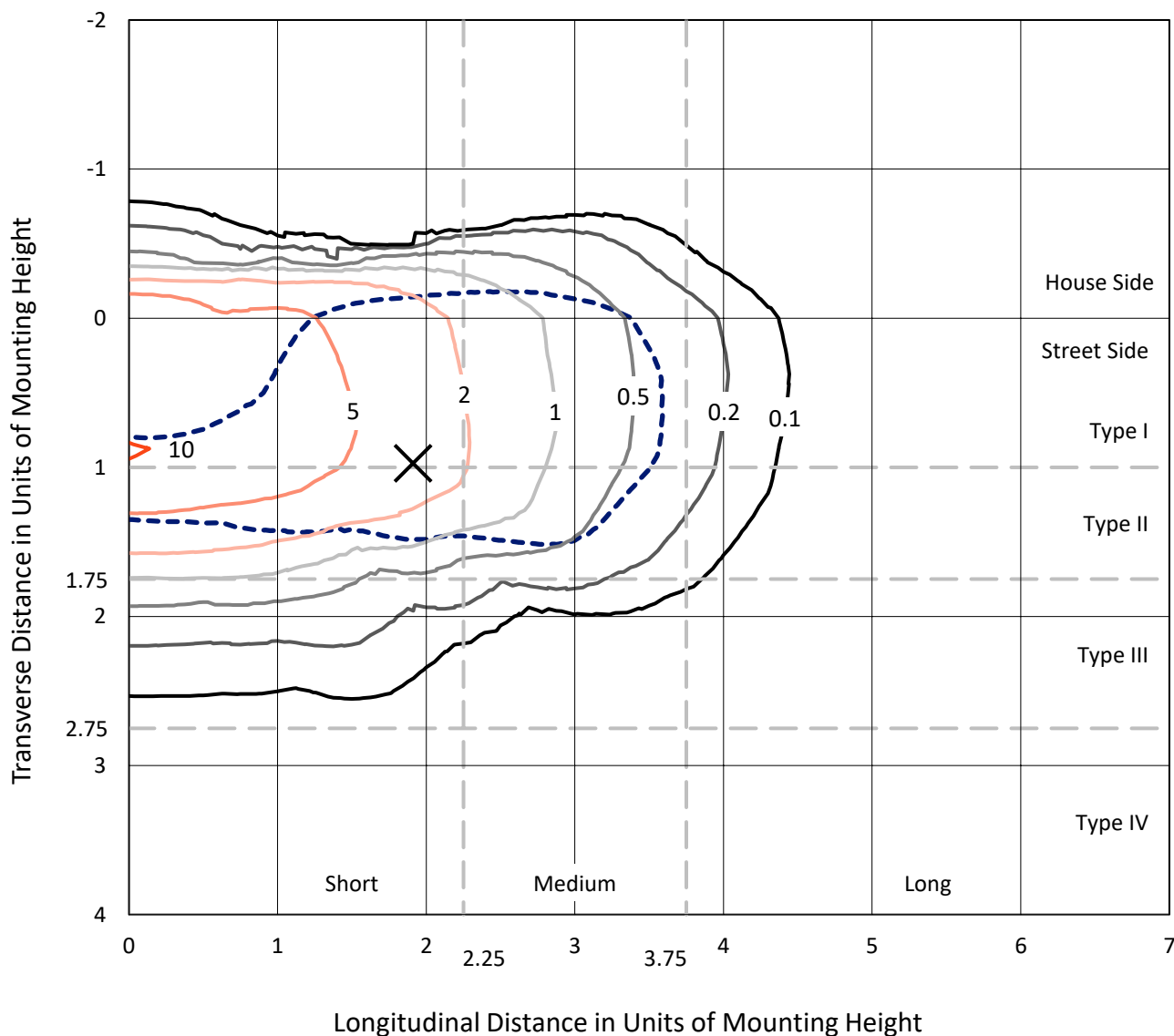


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

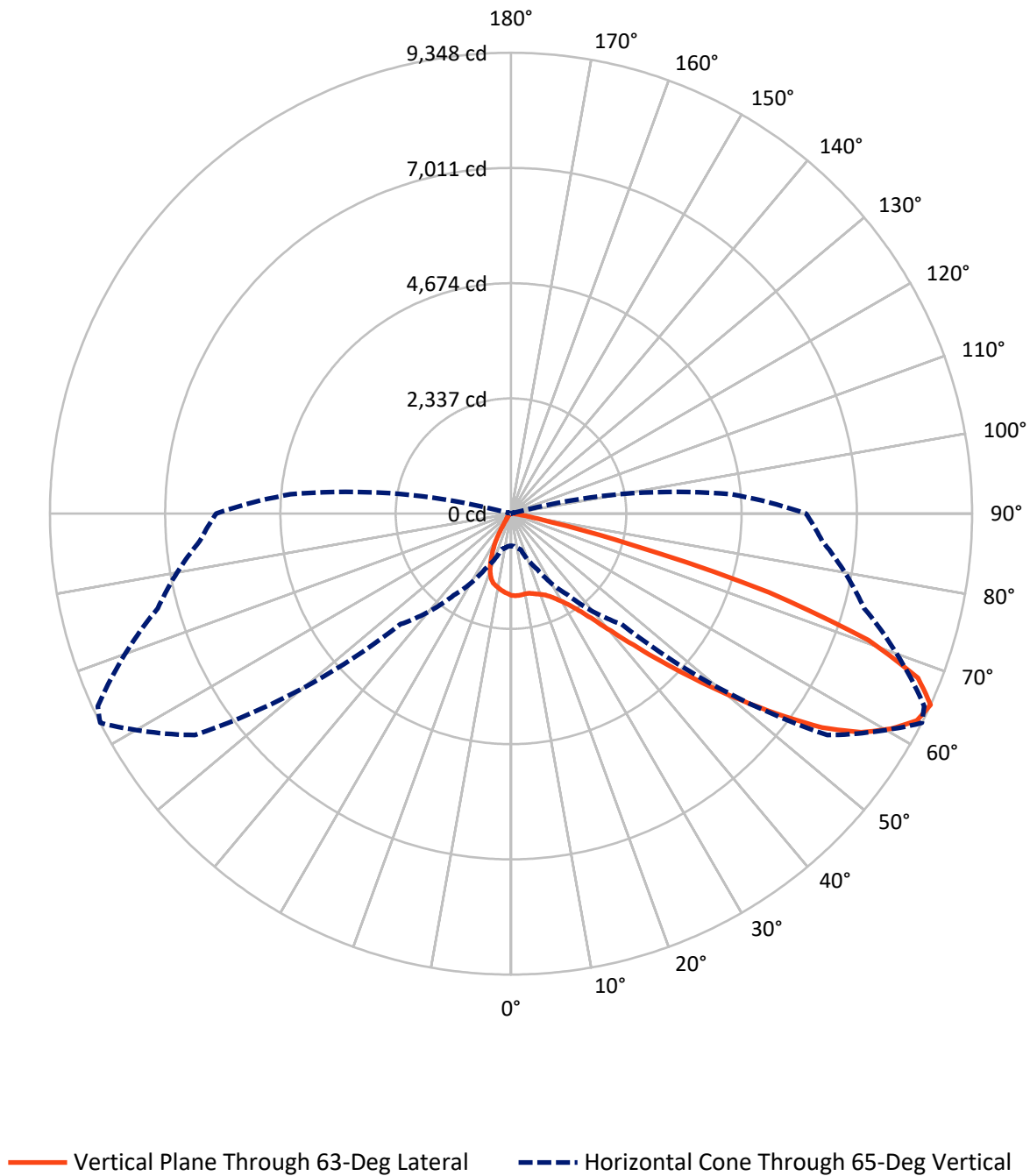


Based on 15 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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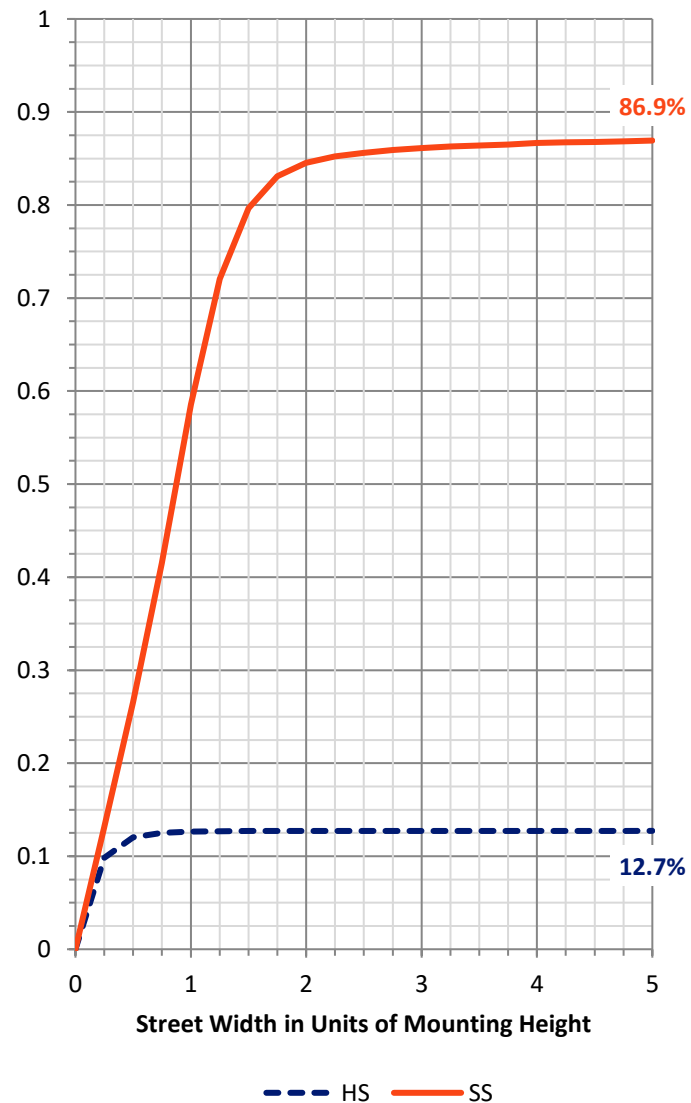
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1385.9	0.0	1385.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	9382.7	0.0	9382.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	10768.6	0.0	10768.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.4
10°-20°	373.4	3.5
20°-30°	553.5	5.1
30°-40°	1027.7	9.5
40°-50°	2177.0	20.2
50°-60°	3010.3	28.0
60°-70°	2409.8	22.4
70°-80°	1001.2	9.3
80°-90°	64.3	0.6
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°	10768.6	100.0
0°-180°	10768.6	100.0

Coefficient of Utilization



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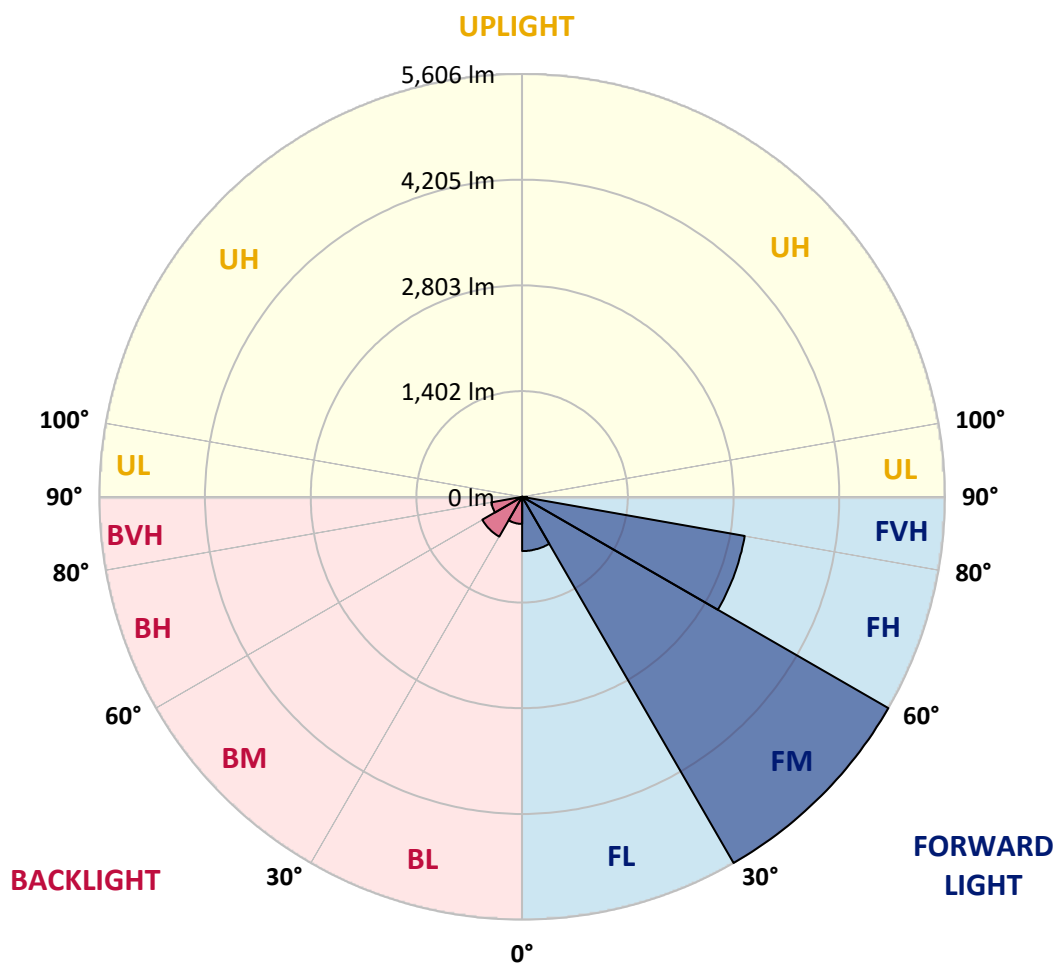
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.1	6.7			
FM	(30°-60°)	5606.2	52.1			
FH	(60°-80°)	2996.1	27.8			G2/5000
FVH	(80°-90°)	61.4	0.6			G1/100
BL	(0°-30°)	359.2	3.3	B1/500		
BM	(30°-60°)	608.8	5.7	B1/1000		
BH	(60°-80°)	415.0	3.9	B1/500		G1/500
BVH	(80°-90°)	2.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1687.4	1683.3	1679.2	1677.2	1677.2	1675.2	1667.0	1665.0	1661.0	1656.9	1652.8
5°	1671.1	1665.0	1662.9	1665.0	1667.0	1671.1	1667.0	1667.0	1662.9	1658.9	1650.8
7.5°	1630.4	1626.4	1628.4	1634.5	1636.5	1650.8	1652.8	1658.9	1658.9	1654.9	1648.8
10°	1581.7	1579.6	1579.6	1589.8	1600.0	1620.3	1634.5	1650.8	1652.8	1652.8	1642.7
12.5°	1545.1	1543.1	1549.2	1561.3	1581.7	1608.0	1632.5	1656.9	1661.0	1662.9	1646.7
15°	1522.7	1522.7	1530.8	1555.2	1583.7	1620.3	1648.8	1681.3	1685.3	1683.3	1661.0
17.5°	1502.3	1504.4	1520.7	1561.3	1593.9	1642.7	1677.2	1713.8	1715.9	1713.8	1677.2
20°	1494.2	1498.3	1522.7	1575.6	1612.1	1667.0	1711.8	1748.4	1750.4	1742.3	1693.5
22.5°	1516.6	1518.6	1549.2	1606.1	1640.6	1701.6	1758.5	1793.1	1795.1	1782.9	1717.9
25°	1593.9	1593.9	1620.3	1669.0	1699.6	1760.6	1821.6	1862.2	1862.2	1848.0	1772.8
27.5°	1774.8	1758.5	1752.4	1766.7	1776.8	1841.9	1906.9	1957.7	1955.7	1935.4	1843.9
30°	2124.4	2083.8	2018.7	1945.5	1909.0	1953.7	2014.7	2079.7	2077.7	2045.2	1931.3
32.5°	2712.0	2653.0	2498.6	2305.4	2148.9	2098.0	2155.0	2226.1	2228.1	2189.5	2071.6
35°	3535.3	3441.8	3165.4	2897.0	2539.2	2346.0	2362.3	2439.6	2463.9	2443.7	2307.4
37.5°	4328.2	4242.8	3978.5	3606.5	3120.6	2726.2	2657.1	2724.2	2752.6	2752.6	2608.3
40°	5127.2	5027.6	4793.8	4419.7	3907.4	3319.8	3071.9	3126.8	3157.2	3163.3	2974.2
42.5°	5767.6	5702.5	5523.6	5232.9	4753.1	4360.8	3669.5	3639.0	3667.5	3645.1	3399.2
45°	6210.8	6159.9	6035.9	5926.1	5692.3	5495.2	4468.5	4263.1	4281.4	4204.2	3876.9
47.5°	6302.2	6245.3	6218.9	6371.3	6538.0	6586.8	5450.4	5005.2	4986.9	4816.2	4372.9
50°	5903.7	5909.8	6007.4	6442.5	7137.7	7576.9	6588.9	5842.7	5775.7	5395.5	4834.4
52.5°	5043.9	5141.4	5387.4	6092.8	7320.7	8296.6	7727.3	6731.2	6627.5	5958.6	5180.0
55°	3946.0	4072.1	4476.6	5287.8	6938.6	8617.8	8686.9	7654.1	7418.3	6381.5	5448.3
57.5°	2933.6	2972.2	3443.9	4183.9	6033.9	8302.7	9178.9	8365.7	8062.8	6719.0	5714.7
60°	1827.7	1852.0	2350.1	3185.6	4570.1	7137.7	9178.9	8855.7	8567.0	7021.9	5958.6
62.5°	1136.4	1144.6	1331.6	2183.4	3106.4	5293.9	8798.7	9235.8	9004.0	7239.5	6168.1
65°	654.6	662.7	750.2	1234.0	2020.8	3169.4	7826.9	9347.6	9243.9	7412.3	6330.7
67.5°	477.8	481.8	516.4	693.3	1321.5	1628.4	5879.4	8898.3	9028.5	7497.6	6326.6
70°	414.8	420.9	465.6	540.7	953.5	1000.2	2992.5	7684.7	8048.5	7375.6	6137.5
72.5°	319.2	327.3	394.4	508.2	699.4	719.7	1083.6	5468.7	6019.6	6613.3	5619.1
75°	219.6	227.7	294.8	418.8	577.4	538.7	595.6	2516.8	3175.5	4435.9	4277.4
77.5°	140.3	142.3	185.0	305.0	498.1	382.2	408.6	821.3	1152.7	2006.5	2018.7
80°	93.5	95.5	113.8	197.2	341.5	353.8	252.1	380.1	416.8	585.5	406.6
82.5°	56.9	56.9	77.3	124.0	207.3	292.8	164.7	199.2	213.4	225.7	105.7
85°	22.4	22.4	46.7	81.4	130.1	136.2	103.7	115.9	122.0	132.2	48.8
87.5°	6.1	6.1	26.5	44.7	56.9	63.0	63.0	56.9	61.0	75.2	24.4
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°	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1650.8	1644.7	1636.5	1628.4	1620.3	1614.2	1608.0	1608.0	1604.1	1597.9	1593.9
5°	1646.7	1636.5	1618.2	1604.1	1581.7	1565.4	1553.2	1543.1	1537.0	1522.7	1520.7
7.5°	1640.6	1628.4	1602.0	1573.5	1537.0	1508.4	1480.0	1459.7	1439.3	1423.1	1419.0
10°	1630.4	1616.2	1577.6	1537.0	1486.1	1433.3	1366.2	1288.9	1217.7	1177.1	1164.9
12.5°	1630.4	1612.1	1561.3	1506.4	1433.3	1303.1	1132.4	961.6	829.4	770.5	754.3
15°	1640.6	1616.2	1549.2	1473.9	1337.7	1073.4	796.9	571.3	426.9	382.2	372.0
17.5°	1650.8	1616.2	1530.8	1429.2	1162.8	778.6	453.4	300.9	254.1	244.0	244.0
20°	1654.9	1612.1	1506.4	1345.8	929.1	483.8	270.4	225.7	207.3	201.2	201.2
22.5°	1671.1	1614.2	1488.2	1225.9	674.9	284.6	213.4	189.1	170.8	164.7	164.7
25°	1711.8	1638.6	1492.2	1073.4	433.0	215.5	181.0	156.5	138.3	130.1	130.1
27.5°	1776.8	1693.5	1514.6	896.5	272.4	185.0	152.5	126.1	111.8	103.7	103.7
30°	1850.0	1754.5	1524.7	693.3	203.3	156.5	124.0	99.6	89.4	83.4	81.4
32.5°	1978.1	1860.2	1516.6	475.8	166.7	132.2	99.6	79.3	71.2	69.1	69.1
35°	2183.4	2045.2	1500.3	298.9	138.3	105.7	79.3	65.1	59.0	56.9	54.9
37.5°	2461.9	2315.6	1451.5	197.2	113.8	83.4	65.1	54.9	48.8	46.7	46.7
40°	2801.4	2624.5	1358.0	150.4	97.6	67.1	54.9	46.7	42.7	40.6	40.6
42.5°	3189.7	2968.1	1209.7	130.1	81.4	56.9	46.7	38.6	36.6	34.5	34.5
45°	3614.6	3328.0	1004.3	115.9	69.1	46.7	38.6	34.5	30.5	30.5	28.4
47.5°	4066.0	3689.9	772.5	101.6	59.0	40.6	34.5	28.4	26.5	24.4	24.4
50°	4501.0	4013.1	542.8	87.4	48.8	34.5	28.4	24.4	22.4	20.4	20.4
52.5°	4808.0	4208.2	384.2	75.2	40.6	30.5	22.4	18.3	16.3	16.3	16.3
55°	5054.0	4330.2	268.3	63.0	34.5	26.5	18.3	14.3	14.3	12.2	12.2
57.5°	5285.7	4409.5	197.2	52.9	28.4	20.4	14.3	10.2	10.2	8.1	8.1
60°	5525.6	4452.2	150.4	42.7	24.4	16.3	10.2	8.1	6.1	6.1	6.1
62.5°	5767.6	4478.7	115.9	34.5	20.4	12.2	8.1	6.1	4.1	2.0	2.0
65°	5979.0	4486.7	89.4	26.5	16.3	8.1	6.1	2.0	0.0	0.0	0.0
67.5°	6042.0	4393.3	69.1	20.4	12.2	6.1	4.1	0.0	0.0	0.0	0.0
70°	5871.2	4145.2	52.9	16.3	10.2	4.1	2.0	0.0	0.0	0.0	0.0
72.5°	5210.6	3476.4	40.6	10.2	8.1	4.1	2.0	0.0	0.0	0.0	0.0
75°	3728.5	1854.1	28.4	8.1	6.1	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	1715.9	717.6	20.4	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0
80°	335.4	178.9	8.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.3	30.5	4.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.5	10.2	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	4.1	2.0	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)