

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: P380873

Luminaire Tested: **PRV-XL-PA3B-8540-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3B-8540-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23997.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 234
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

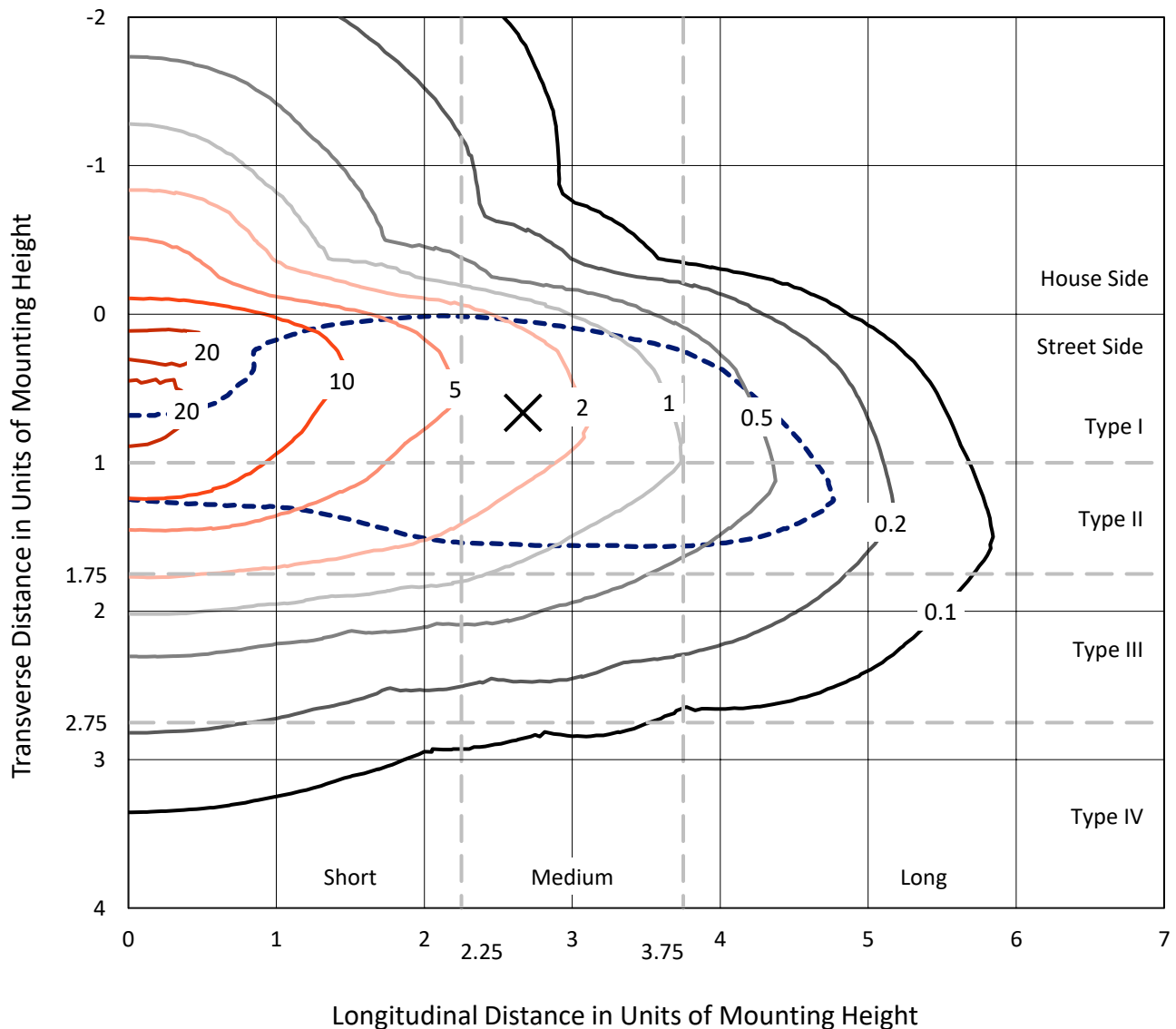


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

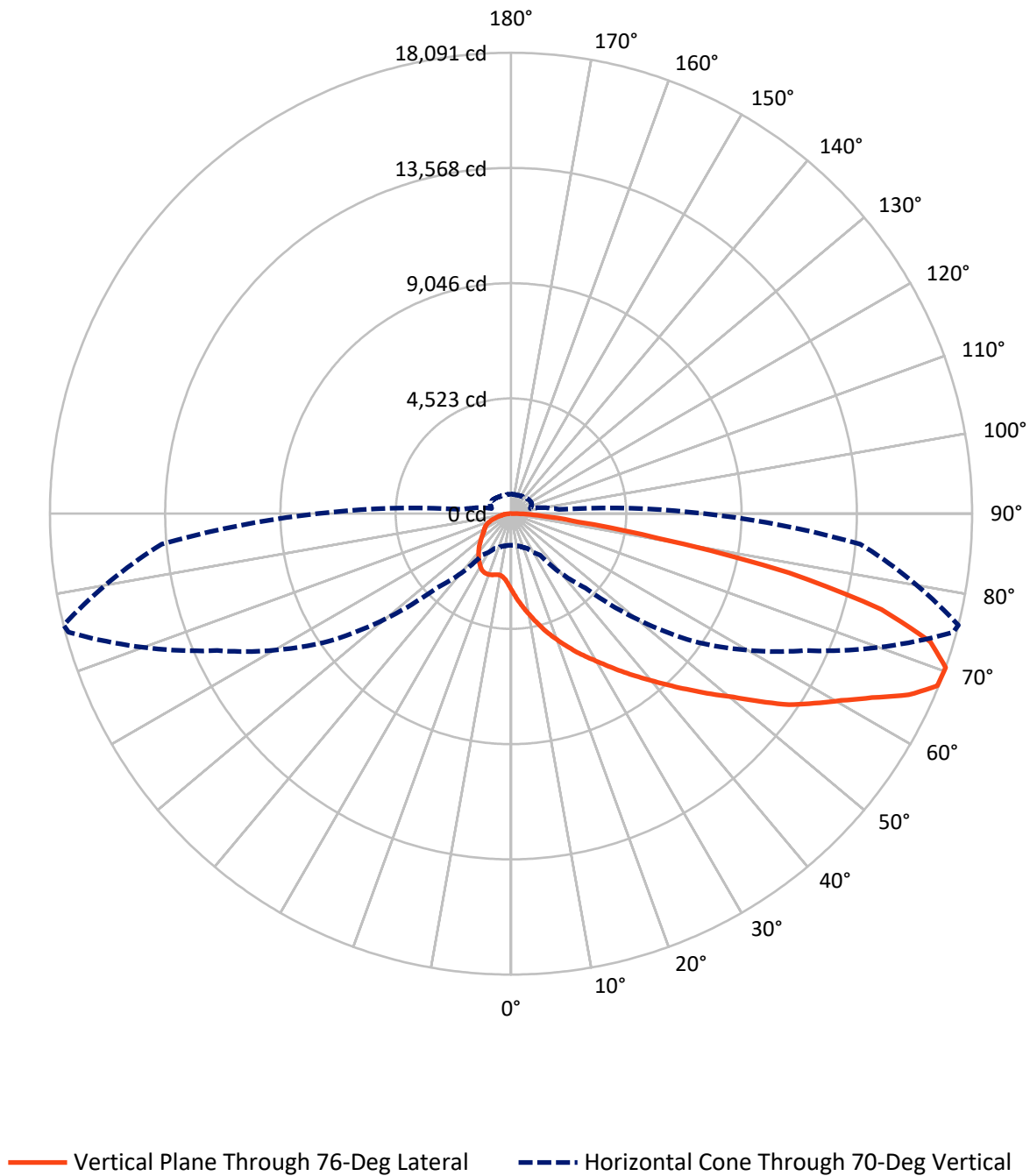


Based on 15 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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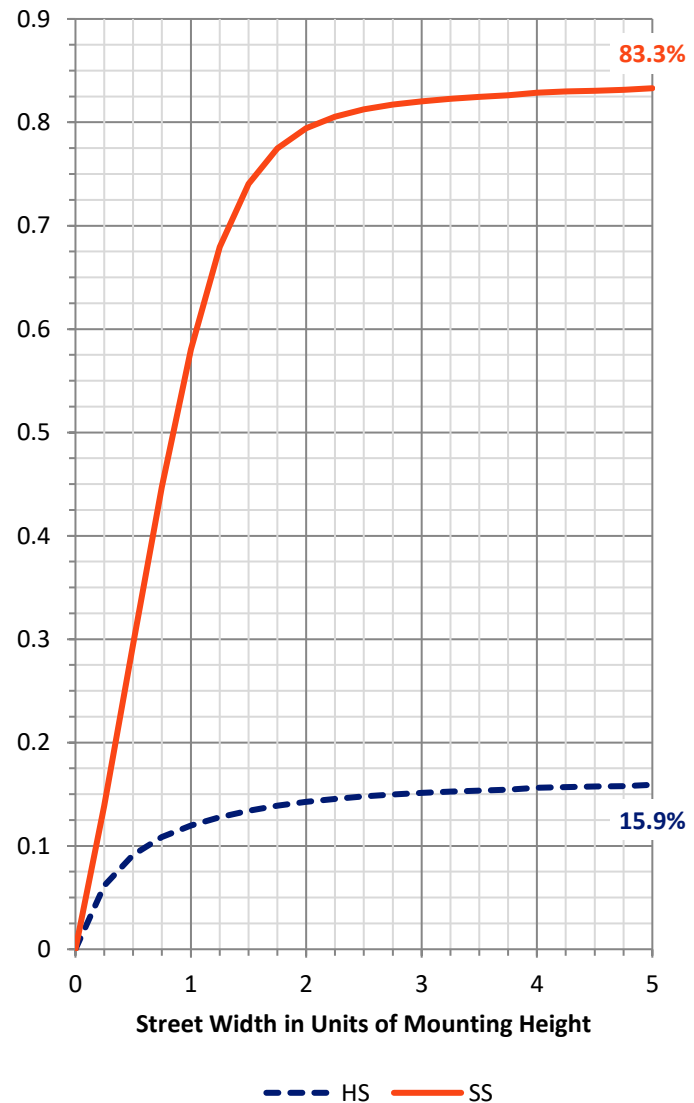
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3917.8	0.0	3917.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	20079.6	0.0	20079.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	23997.4	0.0	23997.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	1.3
10°-20°	1059.8	4.4
20°-30°	1896.0	7.9
30°-40°	3067.1	12.8
40°-50°	4437.1	18.5
50°-60°	5078.5	21.2
60°-70°	4671.6	19.5
70°-80°	2888.9	12.0
80°-90°	586.6	2.4
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°	23997.4	100.0
0°-180°	23997.4	100.0

Coefficient of Utilization



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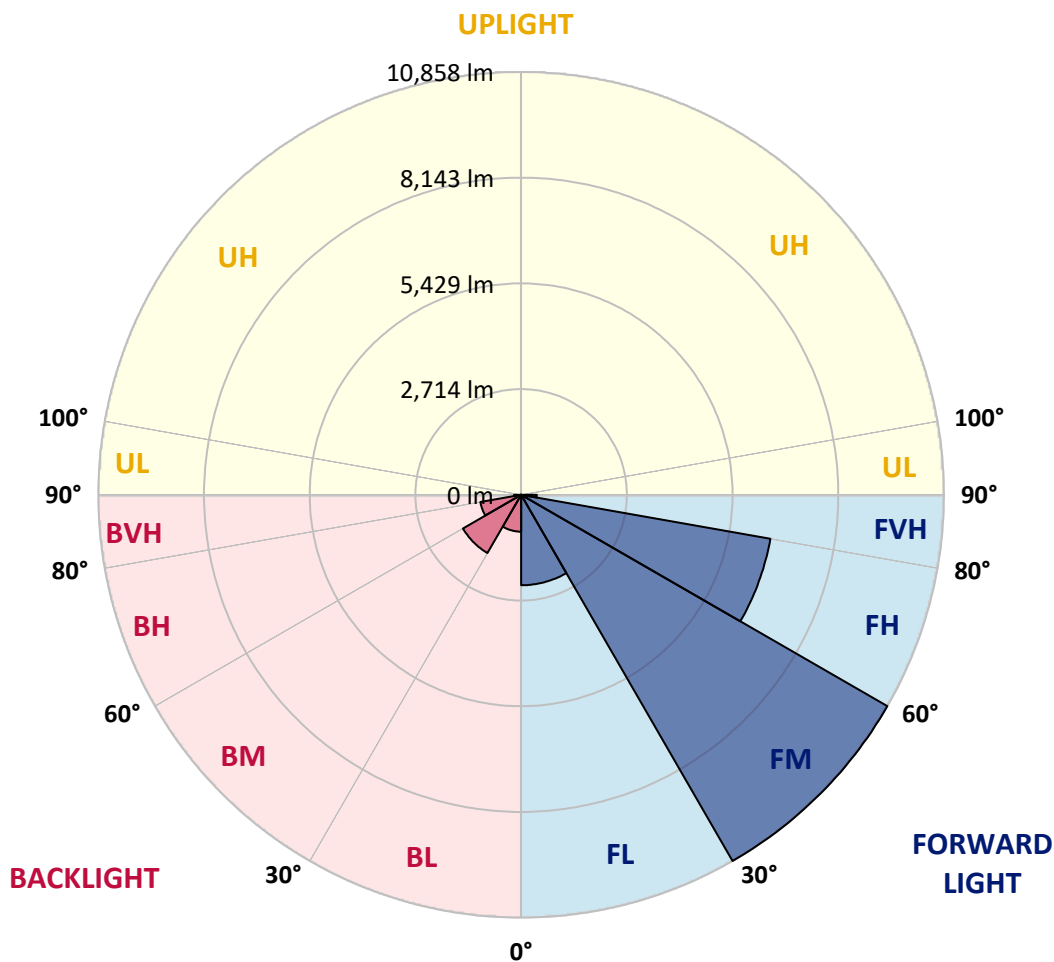
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2321.3	9.7			
FM	(30°-60°)	10857.7	45.2			
FH	(60°-80°)	6497.8	27.1			G3/7500
FVH	(80°-90°)	402.7	1.7			G3/500
BL	(0°-30°)	946.3	3.9	B2/1000		
BM	(30°-60°)	1725.0	7.2	B2/2500		
BH	(60°-80°)	1062.6	4.4	B3/2500		G3/2500
BVH	(80°-90°)	183.9	0.8			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°	76°	85°
0°	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0
2.5°	3824.6	3796.2	3793.0	3748.8	3707.8	3597.4	3518.5	3379.7	3240.8	3237.6	3098.8
5°	4421.0	4392.6	4376.8	4323.2	4253.7	4108.6	3966.6	3752.0	3515.4	3499.5	3237.6
7.5°	4824.9	4799.6	4768.1	4746.0	4679.8	4550.4	4376.8	4121.2	3796.2	3764.7	3398.6
10°	5096.3	5080.5	5074.2	5058.4	5017.4	4913.2	4746.0	4474.6	4077.0	4042.3	3569.0
12.5°	5213.1	5206.7	5235.1	5279.3	5295.1	5254.1	5093.1	4837.5	4386.3	4348.4	3774.1
15°	5077.4	5083.7	5156.2	5307.7	5468.6	5557.0	5462.4	5213.1	4736.5	4682.9	4013.9
17.5°	5014.3	5023.7	5074.2	5219.4	5446.5	5721.1	5765.3	5569.6	5074.2	4998.4	4266.3
20°	5124.7	5137.3	5175.2	5288.8	5446.5	5740.0	5970.4	5910.5	5405.5	5326.7	4509.4
22.5°	5405.5	5421.3	5418.2	5490.7	5598.1	5800.0	6084.0	6232.3	5752.6	5664.3	4761.8
25°	6005.1	5992.5	5885.2	5850.5	5878.9	6008.3	6235.5	6541.6	6115.5	6027.2	5026.9
27.5°	6819.2	6803.5	6607.8	6431.1	6273.3	6330.2	6450.0	6790.9	6484.7	6383.8	5279.3
30°	7690.2	7671.3	7444.1	7156.9	6806.6	6724.6	6708.8	7008.6	6857.1	6749.9	5547.6
32.5°	8539.1	8523.3	8280.3	7945.8	7463.0	7216.8	7065.4	7251.6	7279.9	7175.8	5841.0
35°	9312.1	9312.1	9103.9	8706.3	8160.3	7788.0	7538.7	7551.3	7766.0	7646.0	6175.5
37.5°	10000.1	9997.0	9769.7	9378.5	8854.6	8428.6	8119.4	7914.3	8229.8	8125.7	6525.8
40°	10546.0	10523.9	10356.7	10015.9	9488.9	9066.0	8753.6	8340.3	8747.3	8652.6	6898.2
42.5°	10943.6	10931.0	10817.4	10520.8	10019.0	9621.4	9406.8	8876.7	9334.3	9239.6	7333.6
45°	11098.2	11123.5	11123.5	10842.7	10445.1	10082.1	9987.5	9466.8	9968.5	9873.9	7800.6
47.5°	10848.9	10915.3	11050.9	11069.8	10719.6	10473.4	10505.0	10060.1	10621.8	10571.3	8311.9
50°	10069.5	10192.6	10489.2	11025.7	10830.0	10773.2	10946.8	10665.9	11322.3	11306.5	8933.5
52.5°	8059.4	8359.2	9283.8	10246.3	10754.3	10912.0	11385.4	11347.5	12224.8	12250.0	9744.5
55°	6181.8	6295.4	7365.1	9002.9	10290.4	10867.9	11678.8	12013.3	13203.0	13234.6	10489.2
57.5°	4998.4	5074.2	5658.0	7365.1	9233.3	10628.1	11909.2	12401.5	13954.1	14036.1	11151.9
60°	3960.3	4070.7	4462.0	5635.9	7753.3	10050.6	12070.2	12833.8	14761.9	14885.0	11944.0
62.5°	2944.2	2997.8	3367.1	4174.9	6137.6	9012.4	11985.0	13304.0	15752.8	15901.1	12896.9
65°	2095.3	2142.7	2404.6	2969.4	4537.7	7608.2	11489.5	13654.3	16996.0	17147.5	13856.2
67.5°	1568.3	1587.3	1735.6	2076.4	3057.8	5910.5	10486.1	13594.3	17904.9	18040.6	14241.2
70°	1240.1	1246.5	1319.0	1502.0	1988.0	4114.9	8728.4	12713.9	17971.1	18091.1	13755.3
72.5°	1028.7	1025.6	1066.6	1154.9	1385.3	2603.4	6465.9	11079.3	17119.1	17201.2	12398.3
75°	848.9	855.2	883.5	934.0	1057.1	1716.6	4190.6	8838.8	15102.7	15014.3	10404.0
77.5°	713.2	710.0	722.6	766.8	855.2	1233.9	2455.0	6386.9	11192.9	11148.7	6828.7
80°	574.3	580.6	599.5	637.4	719.5	940.4	1451.6	3985.5	6005.1	5844.2	3262.9
82.5°	385.0	444.9	482.8	527.0	621.6	694.2	921.4	2025.9	2685.4	2644.4	1479.9
85°	183.0	243.0	359.7	410.2	504.9	435.5	624.8	965.6	1344.3	1328.5	533.3
87.5°	37.9	37.9	192.5	230.4	312.4	186.2	347.1	419.7	650.0	609.0	217.8
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°	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0	3001.0
2.5°	3016.7	2931.6	2761.2	2625.5	2486.7	2407.7	2309.9	2262.6	2253.1	2227.9	2246.8
5°	3070.4	2903.1	2581.3	2369.8	2227.9	2158.4	2123.7	2111.1	2107.9	2101.7	2101.7
7.5°	3143.0	2887.4	2467.7	2253.1	2161.5	2139.5	2148.9	2167.9	2171.0	2177.4	2174.2
10°	3231.4	2890.5	2404.6	2224.7	2180.5	2183.7	2215.3	2240.5	2253.1	2262.6	2259.4
12.5°	3354.4	2928.4	2395.1	2243.6	2224.7	2237.3	2268.9	2294.1	2306.7	2309.9	2309.9
15°	3515.4	3007.3	2417.2	2284.6	2268.9	2278.4	2297.2	2306.7	2309.9	2306.7	2306.7
17.5°	3692.1	3101.9	2448.8	2309.9	2284.6	2275.2	2268.9	2259.4	2240.5	2227.9	2227.9
20°	3862.5	3187.1	2464.5	2306.7	2262.6	2224.7	2186.8	2139.5	2107.9	2082.7	2082.7
22.5°	4032.8	3266.0	2464.5	2272.0	2202.6	2130.0	2051.1	1975.4	1928.1	1896.5	1896.5
25°	4212.7	3341.8	2445.6	2212.1	2107.9	2003.8	1896.5	1801.8	1754.5	1723.0	1716.6
27.5°	4364.2	3385.9	2395.1	2126.9	1991.2	1858.7	1735.6	1637.7	1603.0	1574.6	1574.6
30°	4525.1	3414.3	2300.5	2016.5	1858.7	1707.2	1581.0	1502.0	1464.2	1423.2	1420.0
32.5°	4705.0	3433.3	2193.1	1899.6	1723.0	1562.0	1454.7	1391.6	1309.6	1265.4	1259.1
35°	4913.2	3458.5	2079.6	1767.2	1587.3	1442.1	1379.0	1274.9	1196.0	1158.1	1154.9
37.5°	5134.1	3477.5	1956.5	1650.4	1464.2	1363.2	1300.1	1177.0	1107.6	1050.8	1044.5
40°	5367.7	3477.5	1830.3	1536.8	1366.4	1328.5	1208.6	1098.2	981.4	953.0	946.6
42.5°	5626.4	3471.2	1704.0	1426.3	1274.9	1249.6	1154.9	1038.2	978.2	953.0	946.6
45°	5901.0	3449.0	1584.1	1300.1	1180.2	1129.7	1057.1	1025.6	1000.4	1000.4	1000.4
47.5°	6213.3	3430.2	1448.4	1186.5	1110.8	1054.0	1000.4	981.4	978.2	987.7	997.2
50°	6614.2	3423.8	1334.8	1104.4	1057.1	990.9	984.5	968.8	971.9	971.9	971.9
52.5°	7100.1	3367.1	1227.5	1044.5	1003.5	924.6	943.5	959.3	965.6	962.5	959.3
55°	7456.7	3266.0	1136.1	1003.5	965.6	899.4	924.6	949.9	956.1	946.6	946.6
57.5°	7778.6	3124.0	1063.5	971.9	940.4	883.5	912.0	937.3	930.9	927.8	924.6
60°	8147.7	2988.3	1006.6	956.1	915.1	877.3	902.5	918.3	908.8	902.5	899.4
62.5°	8548.6	2855.8	965.6	956.1	896.2	874.1	893.0	899.4	880.4	874.1	874.1
65°	8734.7	2647.6	921.4	956.1	886.7	867.8	874.1	867.8	848.9	848.9	845.7
67.5°	8428.6	2303.6	864.7	943.5	899.4	858.3	845.7	836.2	814.2	814.2	807.8
70°	7582.9	1893.4	782.6	902.5	902.5	855.2	807.8	785.7	760.5	770.0	757.3
72.5°	6478.5	1502.0	681.6	833.1	883.5	852.0	766.8	732.1	710.0	719.5	700.6
75°	5247.7	1164.4	561.7	722.6	836.2	836.2	725.8	678.5	653.2	653.2	631.1
77.5°	3344.9	861.5	457.6	599.5	751.1	814.2	691.1	618.5	580.6	571.2	555.4
80°	1656.7	605.9	375.5	476.5	640.6	763.7	665.9	549.0	495.4	476.5	448.1
82.5°	880.4	419.7	299.8	372.4	511.2	687.9	634.3	473.3	407.1	378.7	347.1
85°	394.5	258.8	239.8	284.0	388.1	564.9	571.2	388.1	312.4	372.4	274.5
87.5°	145.2	116.7	116.7	145.2	224.0	236.7	403.9	249.3	198.8	135.7	107.3
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)