

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: STREETWORKS

Report Number: P192600

Luminaire Tested: **GAN-AF-02-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13328.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 129
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

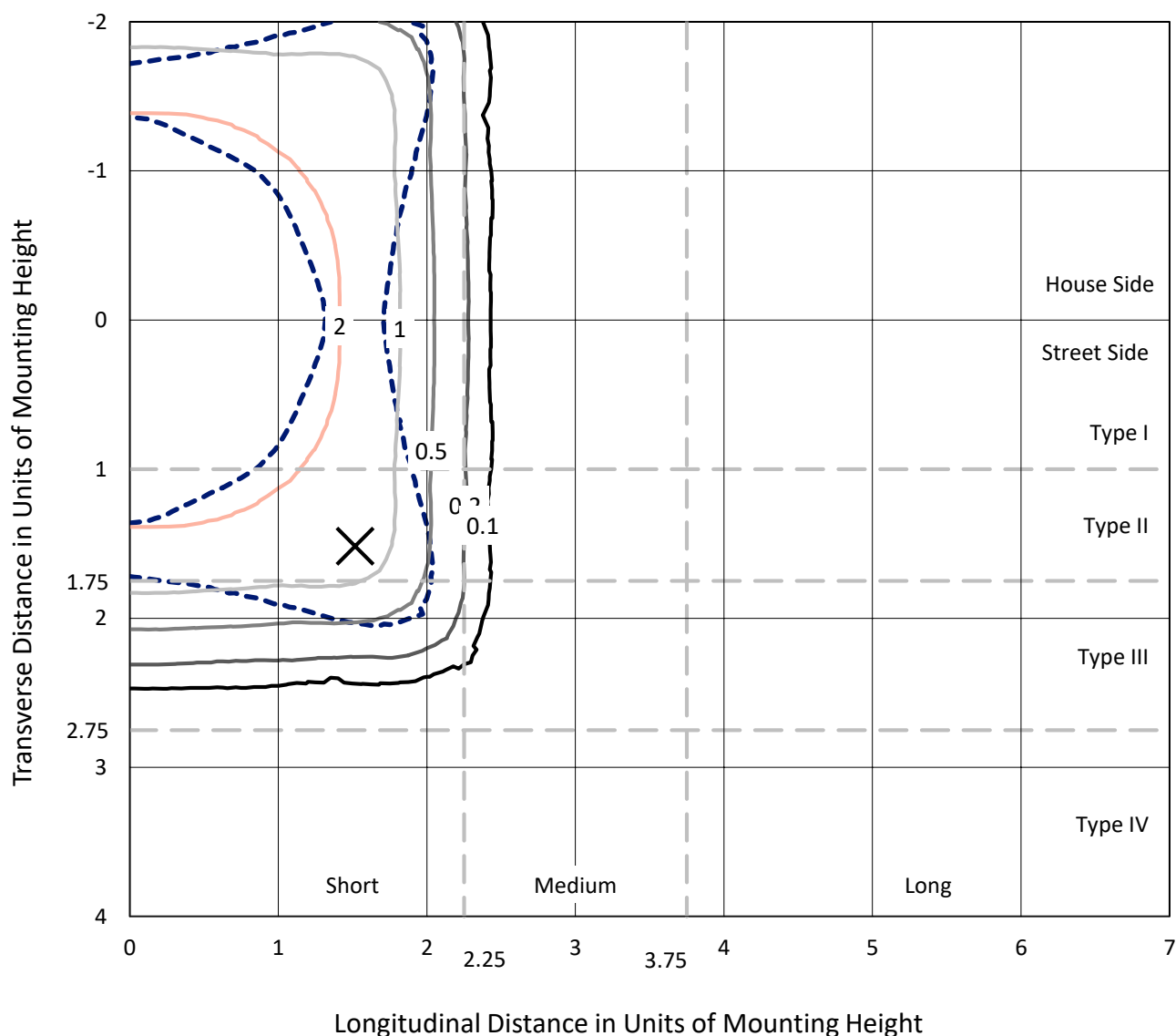


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

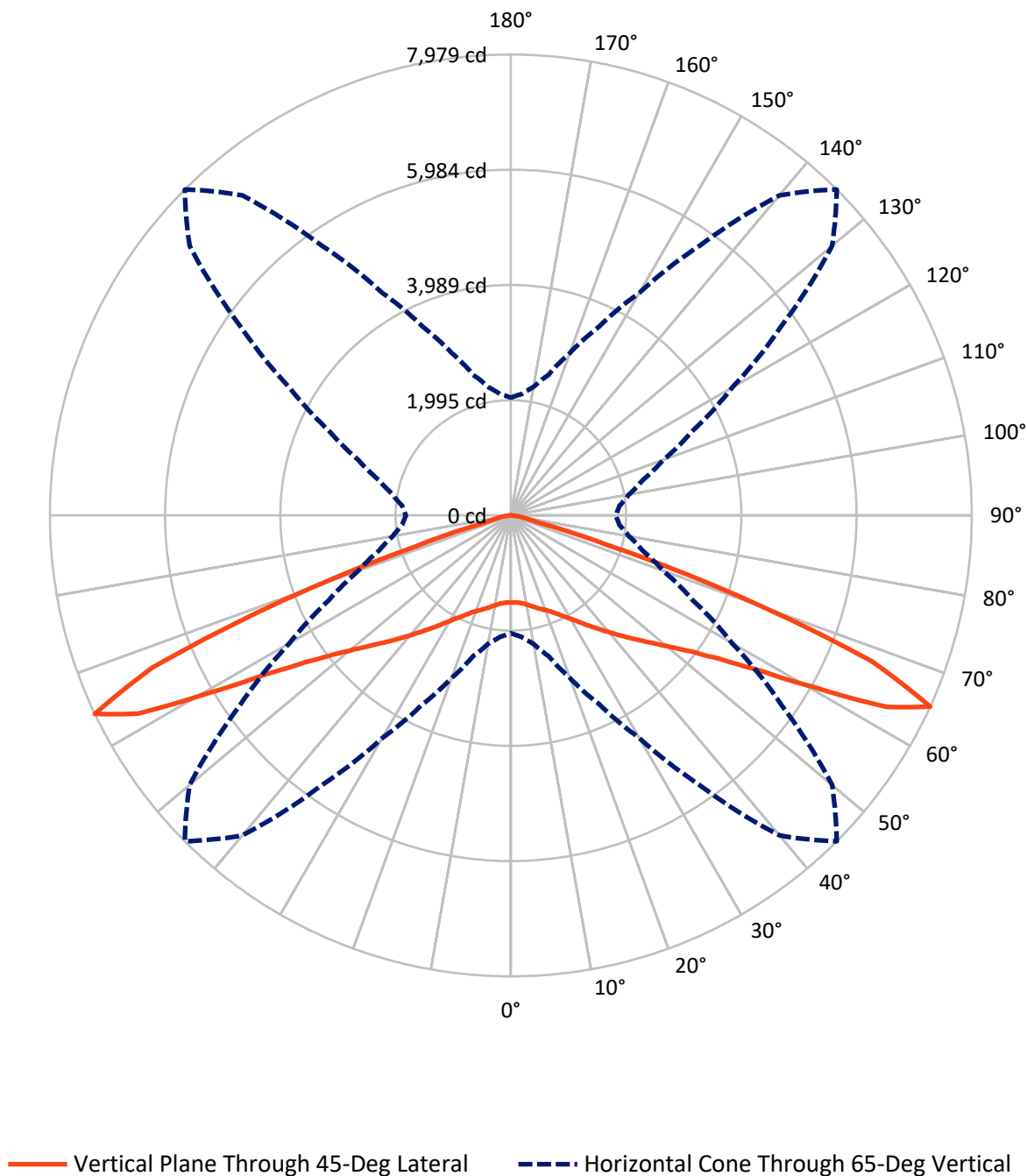


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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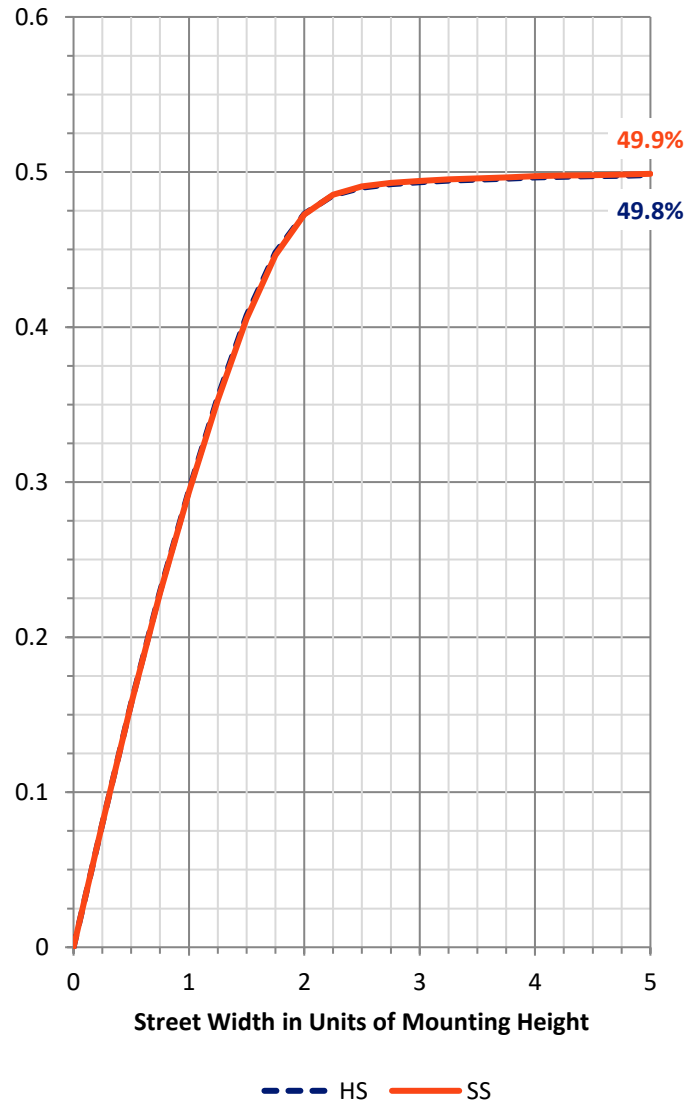
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6664.3	0.0	6664.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6664.3	0.0	6664.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	13328.5	0.0	13328.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	1.1
10°-20°	471.4	3.5
20°-30°	881.5	6.6
30°-40°	1490.9	11.2
40°-50°	2437.7	18.3
50°-60°	3876.3	29.1
60°-70°	3504.0	26.3
70°-80°	443.5	3.3
80°-90°	76.3	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°	13328.5	100.0
0°-180°	13328.5	100.0

Coefficient of Utilization



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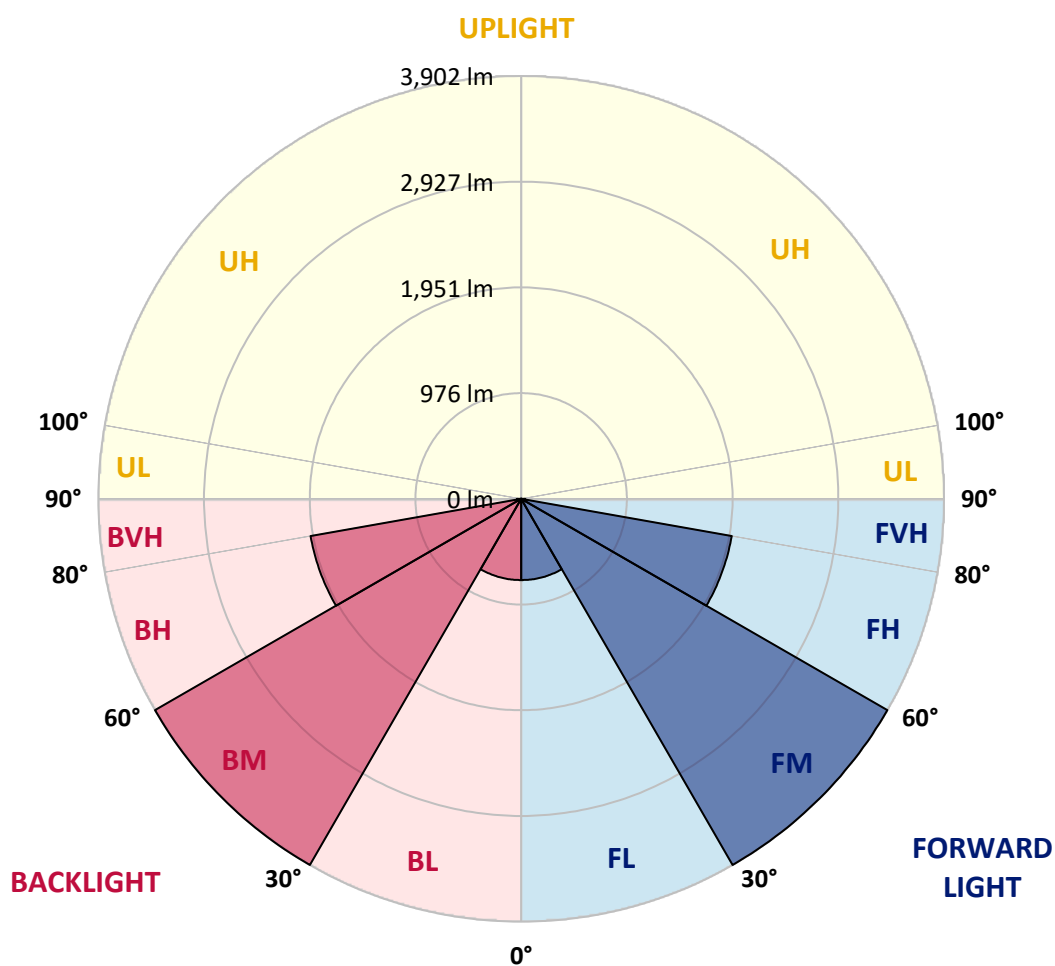
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.0	5.6			
FM	(30°-60°)	3902.5	29.3			
FH	(60°-80°)	1973.7	14.8			G2/5000
FVH	(80°-90°)	38.1	0.3			G1/100
BL	(0°-30°)	750.0	5.6	B2/1000		
BM	(30°-60°)	3902.5	29.3	B3/5000		
BH	(60°-80°)	1973.7	14.8	B3/2500		G2/5000
BVH	(80°-90°)	38.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1509.4	1510.6	1511.9	1510.6	1511.9	1510.0	1508.8	1510.6	1508.8	1506.9	1508.1
5°	1522.5	1523.1	1523.1	1521.2	1523.1	1521.9	1520.1	1522.5	1520.6	1518.7	1520.1
7.5°	1544.4	1546.8	1544.9	1543.1	1544.4	1543.1	1541.8	1542.4	1541.8	1540.0	1540.5
10°	1573.7	1575.5	1574.3	1573.7	1575.0	1574.3	1573.0	1572.5	1573.0	1571.1	1571.1
12.5°	1609.3	1608.7	1608.0	1608.7	1610.5	1610.5	1609.8	1610.5	1611.8	1612.3	1611.1
15°	1644.3	1645.5	1645.5	1645.5	1649.2	1652.3	1654.1	1655.5	1657.9	1658.5	1656.1
17.5°	1687.9	1687.9	1687.3	1687.9	1691.7	1696.7	1698.6	1701.0	1703.5	1705.4	1702.3
20°	1736.5	1737.9	1737.9	1739.1	1744.1	1749.7	1749.7	1751.0	1749.7	1751.0	1749.1
22.5°	1795.9	1799.6	1799.6	1800.3	1805.3	1812.2	1810.2	1812.2	1809.0	1811.5	1809.0
25°	1873.2	1878.9	1877.6	1877.6	1881.5	1885.9	1886.4	1890.1	1889.5	1892.7	1890.7
27.5°	1960.6	1969.4	1971.9	1971.2	1973.8	1978.1	1979.4	1983.8	1981.3	1983.8	1982.5
30°	2065.5	2069.3	2074.3	2076.2	2079.3	2083.7	2083.7	2084.3	2081.2	2084.8	2086.8
32.5°	2174.2	2181.1	2186.1	2197.3	2202.8	2206.1	2205.4	2206.6	2203.5	2208.5	2212.3
35°	2317.7	2322.8	2330.8	2339.6	2347.1	2346.5	2344.6	2345.2	2345.2	2349.6	2353.3
37.5°	2490.7	2491.8	2502.5	2515.0	2518.8	2515.0	2503.7	2501.3	2495.7	2501.3	2507.5
40°	2673.6	2678.0	2699.1	2707.2	2709.2	2702.3	2686.0	2676.7	2664.2	2671.1	2679.8
42.5°	2865.3	2873.9	2893.3	2907.6	2913.8	2909.6	2887.0	2872.7	2856.5	2860.2	2868.9
45°	3077.4	3088.0	3115.5	3129.3	3141.1	3134.2	3112.4	3090.5	3064.9	3066.8	3080.6
47.5°	3314.6	3325.3	3360.9	3384.0	3390.2	3388.9	3364.5	3334.6	3299.6	3298.4	3310.2
50°	3580.5	3591.2	3635.5	3671.1	3689.1	3687.3	3658.5	3616.2	3573.7	3574.3	3589.2
52.5°	3840.3	3853.3	3899.6	3960.7	3996.2	4022.0	4004.5	3964.5	3912.7	3913.8	3927.7
55°	4083.7	4105.5	4158.6	4241.7	4307.8	4379.5	4400.2	4398.9	4367.7	4376.5	4390.1
57.5°	4201.7	4234.2	4315.8	4447.0	4581.8	4727.8	4851.4	4943.9	4983.2	5042.6	5028.7
60°	3978.2	4030.0	4150.4	4343.4	4609.8	4914.5	5241.0	5559.9	5832.2	6037.5	5919.5
62.5°	3257.2	3324.6	3470.7	3717.9	4121.2	4608.7	5233.5	5987.6	6809.0	7304.7	6950.7
65°	2038.1	2108.0	2256.5	2521.2	2993.1	3599.3	4447.0	5696.7	7231.7	7978.8	7258.5
67.5°	794.7	832.7	913.2	1082.4	1437.0	1976.3	2827.1	4245.4	6081.3	6736.1	5968.2
70°	398.2	402.0	417.0	448.2	524.3	681.0	1036.3	1968.2	3487.5	4212.3	3362.1
72.5°	287.8	288.5	295.9	309.6	334.0	369.0	436.4	602.3	1134.2	1733.5	1063.1
75°	220.3	222.9	227.3	234.7	247.8	265.3	289.6	347.1	430.1	498.8	419.4
77.5°	169.8	174.9	177.9	184.7	192.9	204.8	211.6	233.5	271.5	285.9	281.6
80°	129.3	133.7	140.4	146.1	151.7	157.4	154.8	164.8	184.7	196.6	190.4
82.5°	82.4	87.4	107.4	112.3	114.8	118.6	114.2	114.8	123.6	131.1	123.6
85°	53.1	56.2	68.1	74.3	75.0	77.3	75.5	71.1	71.1	64.9	72.9
87.5°	24.4	25.0	30.6	36.2	37.4	33.8	33.1	31.8	25.5	24.4	26.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1	1508.1
2.5°	1507.6	1508.8	1509.4	1511.3	1511.9	1511.9	1512.4	1513.8
5°	1519.4	1521.2	1521.9	1524.3	1524.9	1524.3	1525.6	1526.3
7.5°	1540.5	1543.8	1544.9	1547.4	1545.6	1548.1	1548.7	1548.7
10°	1571.8	1575.0	1575.5	1578.0	1576.8	1578.0	1578.0	1576.8
12.5°	1613.0	1613.6	1611.8	1613.6	1611.1	1612.3	1610.5	1609.3
15°	1658.5	1656.7	1652.3	1652.3	1648.6	1649.2	1648.6	1647.9
17.5°	1703.0	1699.1	1696.0	1694.7	1691.7	1691.0	1689.1	1689.1
20°	1751.5	1749.7	1747.8	1745.3	1742.2	1739.1	1738.5	1739.7
22.5°	1810.2	1809.7	1809.7	1808.4	1804.0	1800.9	1799.1	1799.1
25°	1888.9	1883.3	1883.3	1882.6	1880.8	1878.9	1875.2	1877.1
27.5°	1977.6	1974.5	1976.9	1976.3	1974.5	1974.5	1971.9	1971.9
30°	2086.8	2085.5	2089.2	2086.2	2080.0	2079.3	2076.8	2073.6
32.5°	2212.9	2211.6	2217.2	2213.5	2203.5	2197.9	2193.0	2190.4
35°	2353.3	2354.0	2360.9	2358.4	2347.1	2343.4	2334.7	2333.3
37.5°	2506.9	2516.9	2528.7	2531.2	2521.9	2519.4	2510.0	2505.0
40°	2687.3	2700.5	2718.5	2722.8	2712.9	2711.0	2697.9	2691.0
42.5°	2879.5	2902.0	2924.6	2928.2	2918.2	2908.3	2895.8	2890.8
45°	3094.3	3121.1	3150.5	3157.9	3143.0	3131.2	3114.9	3114.9
47.5°	3335.2	3368.9	3402.0	3422.6	3408.9	3396.5	3377.1	3364.5
50°	3619.9	3666.0	3709.2	3730.3	3708.5	3684.8	3651.1	3639.9
52.5°	3976.9	4026.9	4064.3	4053.1	4019.4	3986.4	3949.5	3934.5
55°	4432.6	4449.5	4449.5	4407.1	4339.7	4284.0	4226.0	4206.7
57.5°	5002.6	4937.7	4837.8	4711.0	4551.8	4413.3	4319.7	4275.4
60°	5672.3	5360.3	5007.6	4661.1	4376.5	4141.7	4002.5	3938.9
62.5°	6118.6	5302.2	4595.6	4039.4	3629.9	3347.0	3154.9	3079.9
65°	5718.5	4422.0	3475.6	2810.2	2364.0	2076.2	1885.9	1815.9
67.5°	4188.6	2771.0	1850.9	1326.5	972.0	775.3	697.3	664.9
70°	1880.2	975.6	597.9	467.0	402.6	369.6	355.2	350.1
72.5°	566.8	410.2	345.8	312.2	286.5	270.3	258.4	257.2
75°	342.1	284.6	252.8	232.8	216.7	203.5	197.2	195.3
77.5°	239.1	209.1	194.2	179.7	167.2	157.4	151.7	147.3
80°	167.9	153.5	146.7	138.5	130.4	121.1	113.0	109.3
82.5°	112.3	109.3	109.3	104.3	97.4	88.6	72.4	68.7
85°	72.4	71.8	72.9	71.1	66.2	56.9	46.8	44.4
87.5°	33.8	34.3	38.1	37.4	36.2	29.9	23.7	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)