

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: P317518

Luminaire Tested: **GAN-SA4B-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24016 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

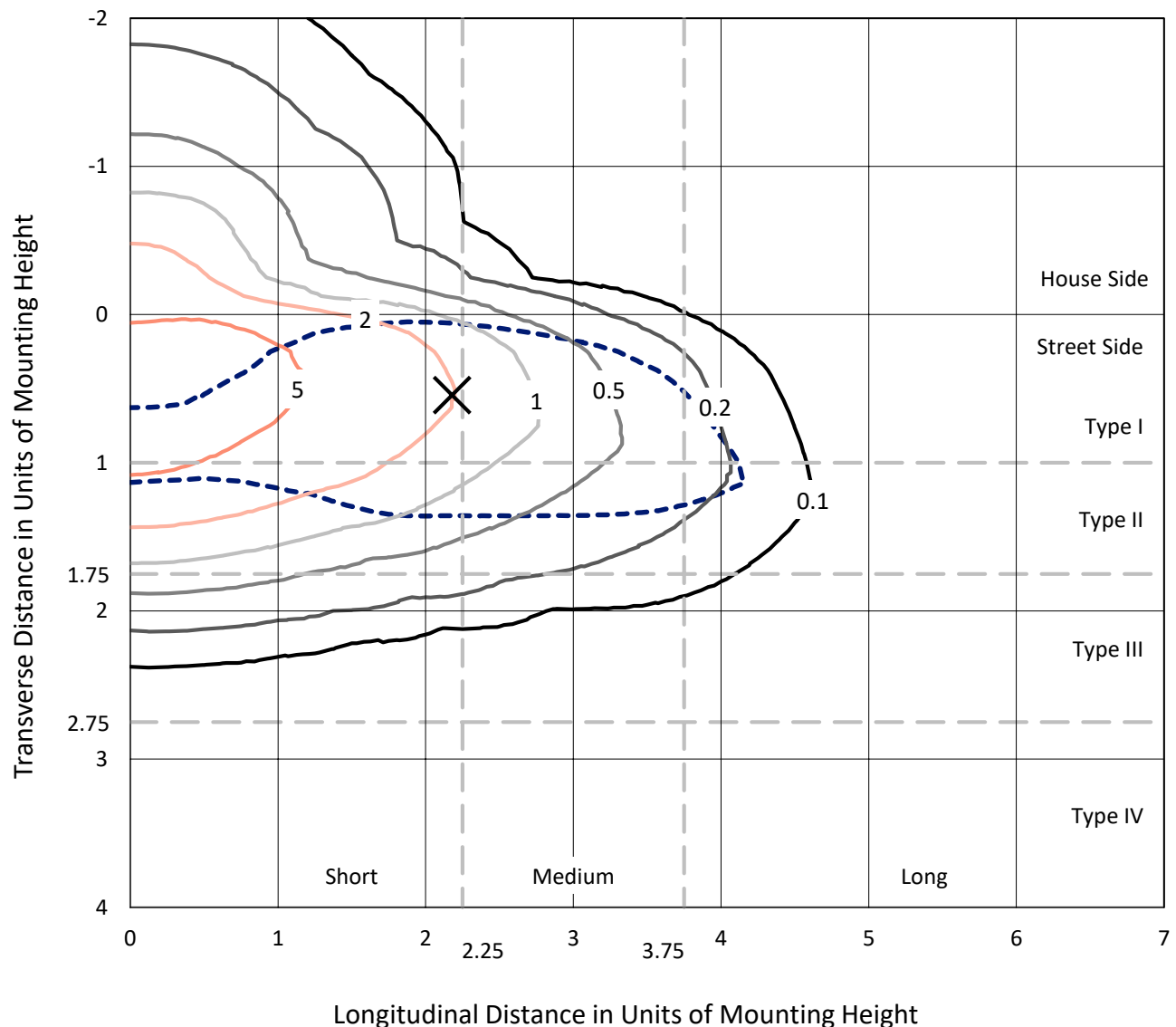
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

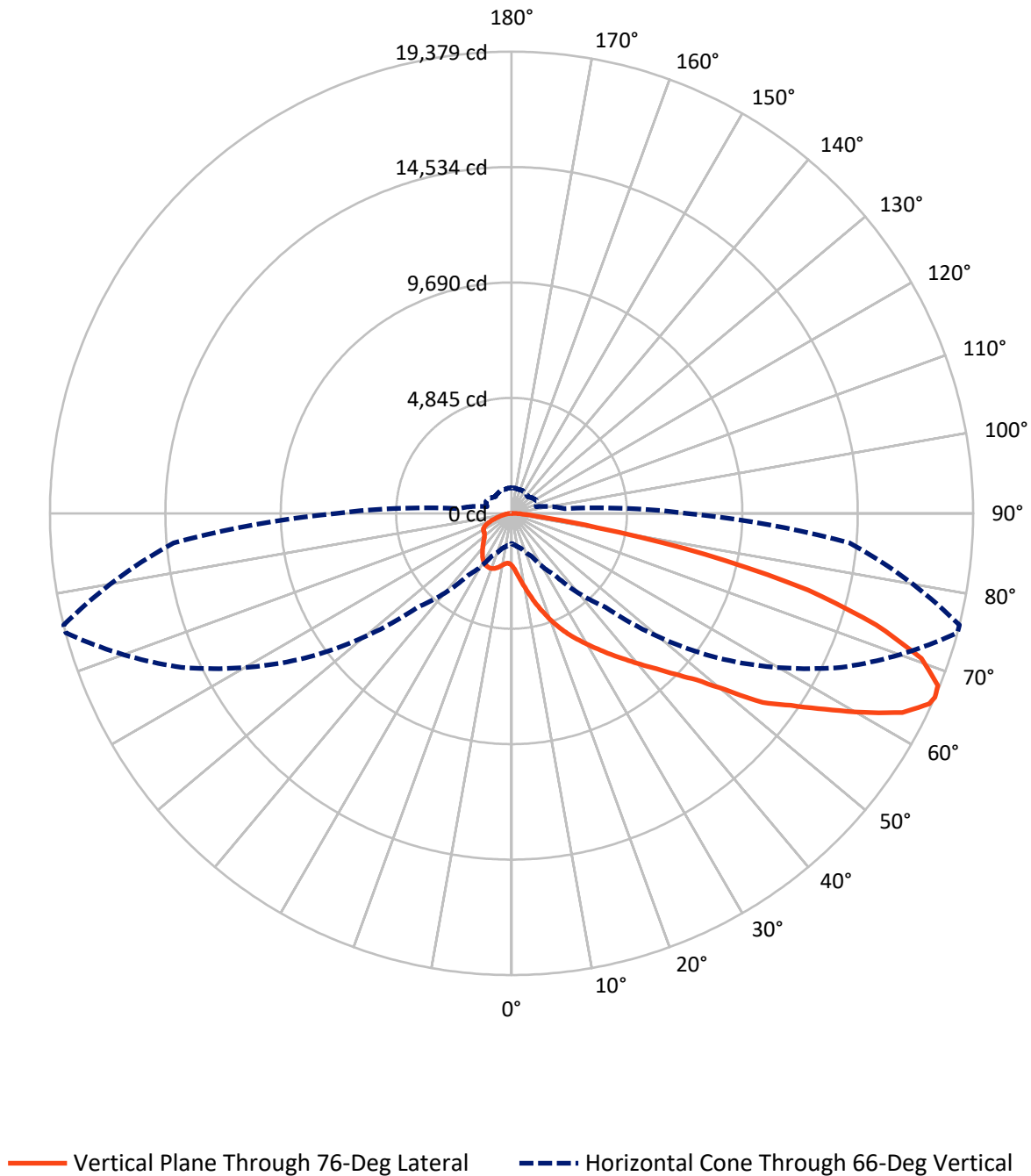
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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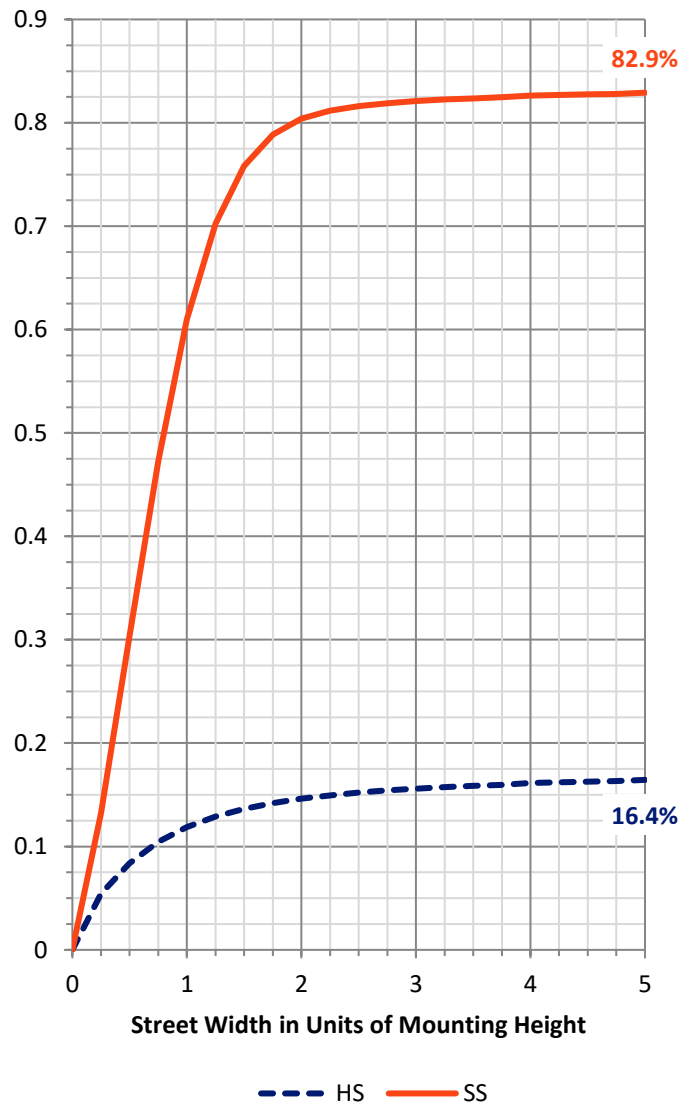
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4041.1	0.0	4041.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	19974.9	0.0	19974.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	24016.0	0.0	24016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.1
10°-20°	1047.3	4.4
20°-30°	2035.2	8.5
30°-40°	3321.9	13.8
40°-50°	4538.5	18.9
50°-60°	5286.5	22.0
60°-70°	4739.4	19.7
70°-80°	2395.1	10.0
80°-90°	386.8	1.6
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°	24016.0	100.0
0°-180°	24016.0	100.0

Coefficient of Utilization



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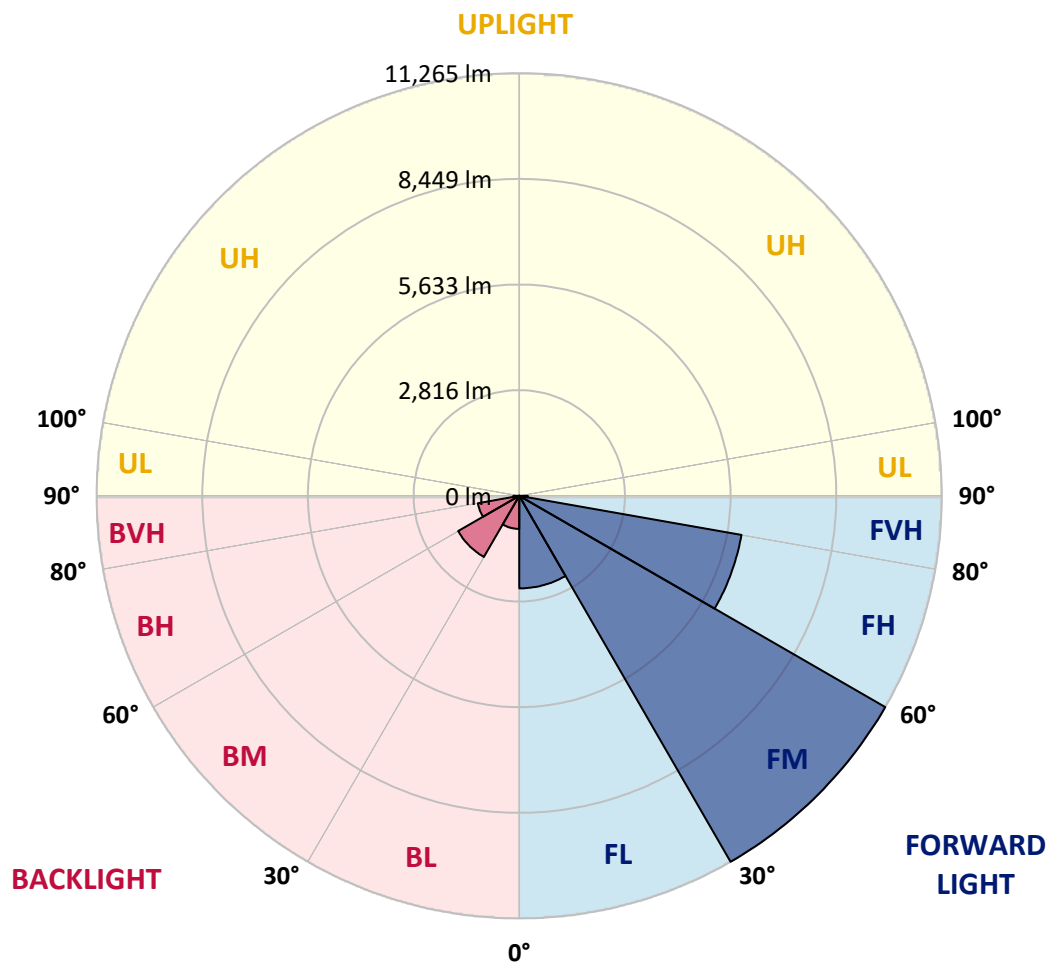
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.4	10.3			
FM	(30°-60°)	11265.2	46.9			
FH	(60°-80°)	6015.0	25.0			G3/7500
FVH	(80°-90°)	228.4	1.0			G3/500
BL	(0°-30°)	881.4	3.7	B2/1000		
BM	(30°-60°)	1881.8	7.8	B2/2500		
BH	(60°-80°)	1119.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	158.4	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2
2.5°	2911.5	2867.5	2863.4	2799.0	2784.3	2661.2	2570.7	2476.1	2368.5	2347.3	2262.5
5°	3739.9	3735.8	3679.5	3574.3	3492.0	3281.7	3073.7	2853.6	2612.3	2573.1	2382.4
7.5°	4485.1	4478.5	4435.3	4322.0	4203.0	3944.5	3647.7	3310.2	2918.8	2860.9	2544.6
10°	5050.9	5048.4	5033.8	4950.6	4849.5	4601.6	4273.9	3813.2	3275.1	3196.0	2747.6
12.5°	5487.9	5492.8	5502.6	5473.2	5425.1	5214.0	4878.0	4346.5	3655.1	3576.8	2973.5
15°	5783.9	5798.5	5849.1	5890.7	5915.9	5786.3	5461.0	4891.9	4080.7	3986.9	3223.8
17.5°	5933.1	5949.4	6036.6	6162.2	6277.9	6264.9	6006.4	5412.1	4489.1	4398.6	3492.8
20°	6061.9	6074.1	6171.9	6322.8	6527.4	6617.9	6472.8	5912.7	4936.7	4829.1	3778.2
22.5°	6435.3	6450.8	6480.1	6565.7	6746.7	6913.1	6843.0	6386.4	5346.8	5246.6	4048.9
25°	7156.0	7174.8	7111.2	7038.6	7072.9	7188.6	7201.7	6818.5	5762.7	5649.3	4339.9
27.5°	8024.3	8051.3	7942.8	7756.1	7593.0	7548.2	7532.7	7172.3	6159.7	6028.5	4627.7
30°	8874.7	8921.2	8780.1	8538.0	8238.8	8028.4	7872.7	7518.9	6551.1	6425.5	4899.2
32.5°	9705.5	9686.8	9482.1	9245.7	8895.1	8631.8	8255.1	7890.6	6991.3	6847.0	5169.1
35°	10274.6	10281.1	10091.2	9810.7	9476.4	9274.2	8767.1	8291.8	7440.6	7307.7	5475.7
37.5°	10758.9	10728.8	10513.5	10251.8	9964.0	9877.6	9366.4	8733.7	7927.3	7782.2	5801.8
40°	10920.4	10885.3	10744.2	10555.9	10325.2	10317.8	10027.6	9234.3	8477.7	8334.2	6169.5
42.5°	10822.5	10777.7	10719.8	10668.4	10597.5	10630.1	10648.9	9821.3	9082.6	8922.0	6595.1
45°	10461.3	10393.7	10434.4	10546.1	10700.2	10884.5	11209.8	10471.1	9760.2	9625.6	7094.9
47.5°	9906.1	9845.0	9972.1	10211.0	10630.1	11096.5	11740.6	11188.6	10569.0	10435.2	7806.7
50°	9125.0	9143.0	9324.8	9759.3	10392.8	11194.3	12394.4	12138.4	11744.6	11619.9	8777.7
52.5°	7843.3	7846.6	8358.6	9072.0	9972.1	11143.8	12757.3	13352.4	13350.0	13199.2	9702.3
55°	6653.0	6725.5	7130.8	8079.0	9290.5	10941.6	13010.8	13942.7	14404.2	14227.3	10564.1
57.5°	5490.3	5532.7	5916.8	6869.0	8317.9	10402.6	13270.9	14651.2	15619.0	15507.3	11635.4
60°	4167.9	4233.1	4630.2	5509.9	7073.7	9446.3	13295.4	15390.7	17071.1	16958.6	12831.5
62.5°	2705.2	2817.7	3189.5	4013.8	5568.6	8070.8	12727.9	15874.2	18447.4	18407.4	13893.0
65°	1554.8	1639.6	1898.1	2534.0	3841.8	6344.0	11378.6	15688.3	19294.5	19271.6	14290.1
66°	1270.3	1323.3	1521.4	1980.4	3170.0	5571.1	10594.2	15296.2	19378.5	19379.3	14244.4
67.5°	1015.9	1039.5	1128.4	1417.8	2339.1	4415.8	9192.7	14431.1	19274.1	19302.6	13950.1
70°	840.6	852.8	880.5	950.7	1276.8	2662.8	6525.0	12183.3	18226.4	18248.4	12801.3
72.5°	754.2	761.5	772.1	781.9	900.9	1488.0	3985.3	9746.3	15980.2	16008.7	11050.8
75°	683.2	687.3	685.7	686.5	755.8	948.2	2059.5	7276.7	12921.1	12864.1	8465.4
77.5°	600.1	604.1	596.0	597.6	668.6	728.9	1024.9	5094.1	8719.8	8317.0	4769.6
80°	507.1	510.4	507.1	512.8	582.1	550.3	596.0	2865.8	3855.6	3646.9	1695.9
82.5°	383.2	397.1	406.8	429.7	479.4	391.4	398.7	1116.2	1174.1	1117.8	520.2
85°	168.0	204.6	306.6	328.6	360.4	234.8	261.7	454.9	477.8	463.1	189.2
87.5°	44.0	48.1	151.6	190.8	199.8	106.0	136.2	207.1	218.5	207.1	62.8
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°	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2	2193.2
2.5°	2217.7	2177.7	2106.0	2042.4	1994.3	1961.7	1929.0	1912.7	1902.9	1893.2	1894.8
5°	2288.6	2207.9	2084.8	1997.5	1948.6	1917.6	1901.3	1894.8	1890.7	1880.9	1880.9
7.5°	2395.4	2281.3	2111.7	2022.0	1983.7	1960.0	1950.2	1947.0	1942.1	1930.7	1932.3
10°	2529.9	2370.1	2167.9	2080.7	2045.6	2019.5	2005.7	2000.8	1991.8	1978.8	1980.4
12.5°	2688.1	2480.2	2242.1	2150.8	2108.4	2073.4	2050.5	2036.7	2021.2	2004.0	2004.9
15°	2860.9	2600.0	2322.0	2213.6	2155.7	2106.8	2070.1	2046.4	2022.0	2000.8	2000.0
17.5°	3036.2	2715.8	2383.2	2247.8	2169.6	2105.1	2055.4	2018.7	1988.6	1962.5	1960.0
20°	3225.4	2820.2	2417.4	2244.6	2143.5	2066.8	2000.8	1955.1	1921.7	1895.6	1891.5
22.5°	3417.8	2918.0	2423.1	2211.1	2085.6	1991.8	1922.5	1872.0	1837.7	1810.8	1801.0
25°	3593.9	2993.8	2399.5	2146.7	2004.9	1903.8	1836.1	1784.7	1757.0	1725.2	1715.4
27.5°	3754.5	3046.8	2352.2	2064.4	1914.4	1814.9	1751.3	1707.3	1677.1	1652.6	1644.5
30°	3898.8	3075.4	2274.7	1966.5	1821.4	1730.9	1677.1	1646.9	1620.8	1589.9	1584.2
32.5°	4035.8	3075.4	2175.3	1859.7	1729.3	1656.7	1624.9	1606.2	1576.8	1546.7	1538.5
35°	4172.8	3056.6	2057.9	1748.0	1644.5	1603.7	1602.1	1580.1	1535.2	1494.5	1483.9
37.5°	4317.1	3018.3	1925.8	1643.7	1575.2	1580.1	1593.9	1545.0	1481.4	1423.5	1408.1
40°	4480.2	2965.3	1788.8	1553.2	1517.3	1569.5	1571.9	1494.5	1370.5	1317.6	1303.7
42.5°	4671.8	2912.3	1661.6	1473.3	1471.6	1537.7	1530.3	1385.2	1311.0	1284.1	1276.8
45°	4923.7	2882.1	1540.9	1397.5	1435.8	1486.3	1459.4	1324.9	1293.9	1278.4	1271.9
47.5°	5320.8	2897.6	1430.1	1337.1	1399.9	1435.0	1327.3	1300.4	1278.4	1259.7	1253.1
50°	5818.1	2888.7	1340.4	1295.5	1359.1	1381.1	1267.8	1268.6	1257.2	1236.0	1226.2
52.5°	6192.3	2818.6	1282.5	1271.9	1323.3	1285.8	1230.3	1237.7	1231.9	1201.0	1190.4
55°	6553.5	2758.2	1253.1	1262.9	1297.2	1166.7	1186.3	1204.2	1198.5	1168.3	1163.5
57.5°	7002.8	2746.8	1235.2	1265.4	1275.2	1107.2	1143.9	1167.5	1163.5	1150.4	1148.0
60°	7553.1	2750.1	1218.9	1269.4	1250.7	1063.2	1103.9	1134.1	1136.6	1134.1	1132.5
62.5°	7855.6	2661.2	1178.1	1258.0	1207.5	1024.9	1062.4	1106.4	1107.2	1112.1	1111.3
65°	7598.8	2395.4	1102.3	1218.1	1134.9	993.1	1026.5	1074.6	1062.4	1084.4	1084.4
66°	7349.3	2242.1	1064.8	1192.0	1103.9	980.8	1015.1	1058.3	1042.8	1073.0	1073.0
67.5°	6839.7	1983.7	997.1	1136.6	1059.9	963.7	1002.0	1031.4	1010.2	1055.0	1051.8
70°	5908.6	1534.4	861.0	1011.0	987.3	938.4	984.1	977.6	946.6	1015.1	1002.0
72.5°	4981.6	1165.9	691.4	846.3	877.3	906.6	958.8	909.1	869.9	918.0	889.5
75°	3865.4	876.5	546.3	658.0	741.1	856.9	928.6	830.0	773.7	768.8	753.4
77.5°	2089.7	601.7	432.9	502.2	588.7	794.9	908.3	745.2	660.4	640.8	628.6
80°	827.5	391.4	314.7	380.8	411.7	705.2	859.3	646.5	544.6	525.1	506.3
82.5°	341.6	231.5	203.0	255.2	268.2	603.3	771.3	530.0	420.7	582.1	618.0
85°	146.8	127.2	120.7	132.1	151.6	423.1	613.9	404.4	454.1	405.2	322.1
87.5°	44.0	53.8	51.4	50.5	55.4	101.1	326.9	225.0	333.5	126.4	94.6
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)