

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: P324076

Luminaire Tested: **GAN-SA2B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7249 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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



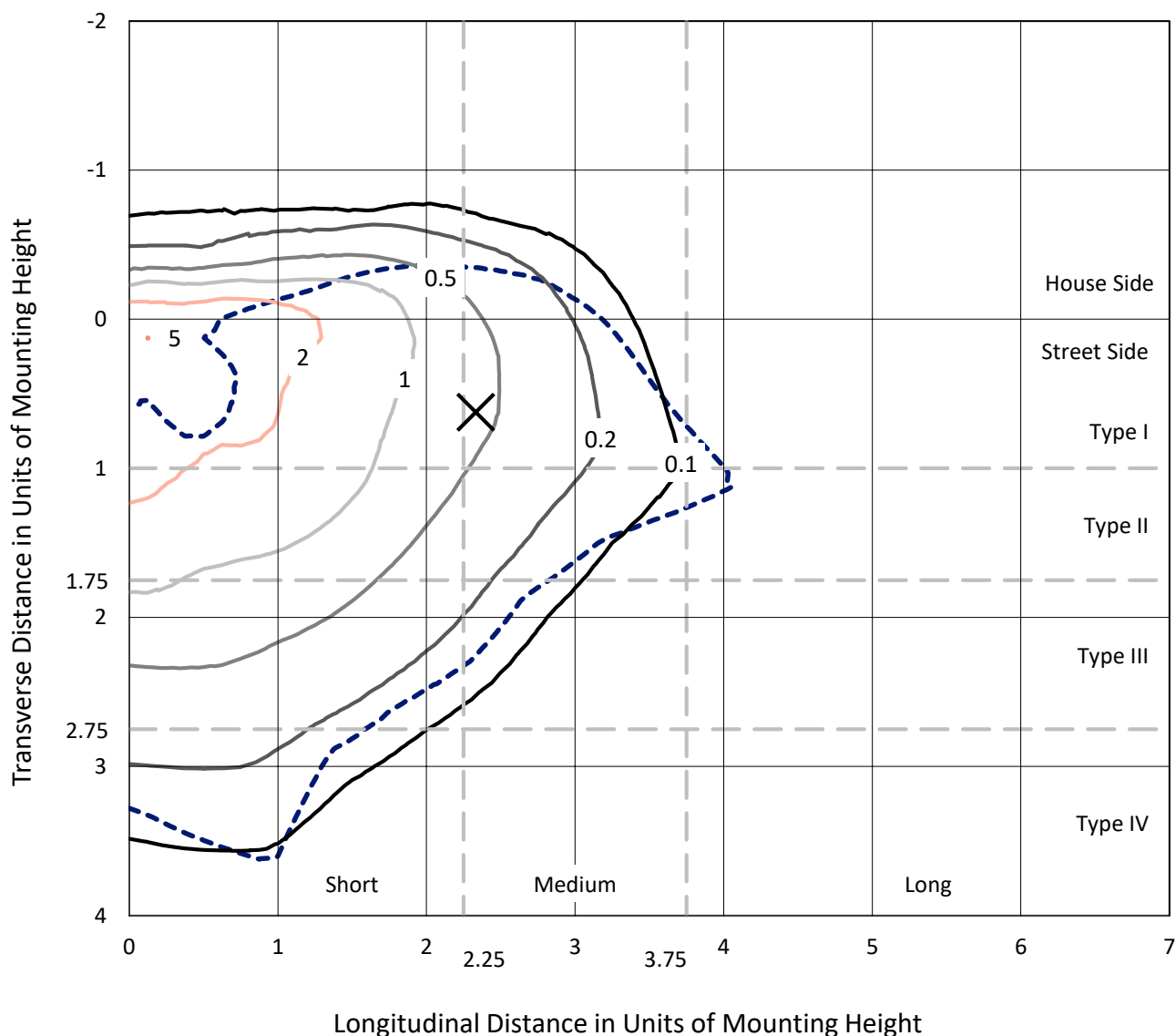
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

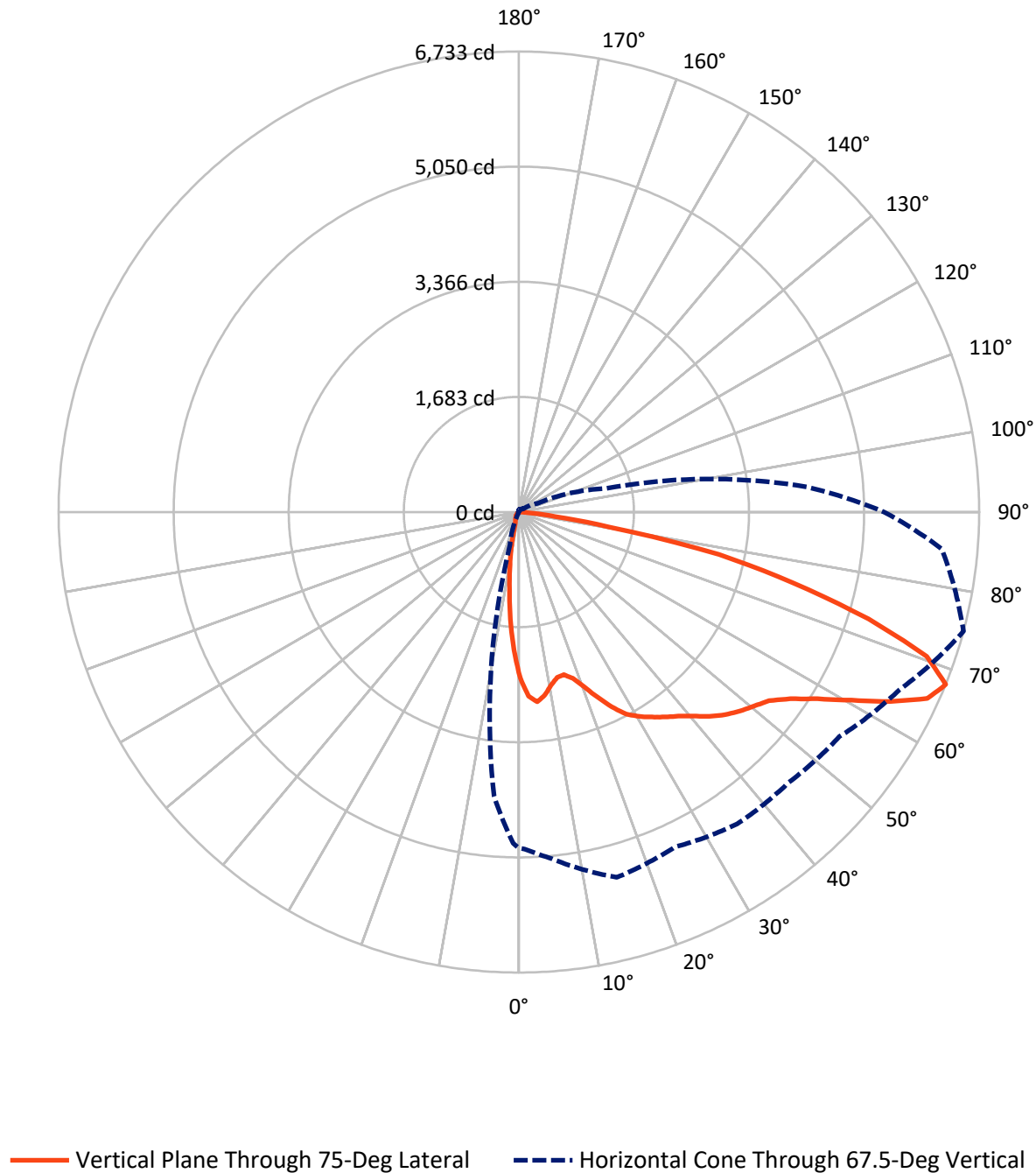


Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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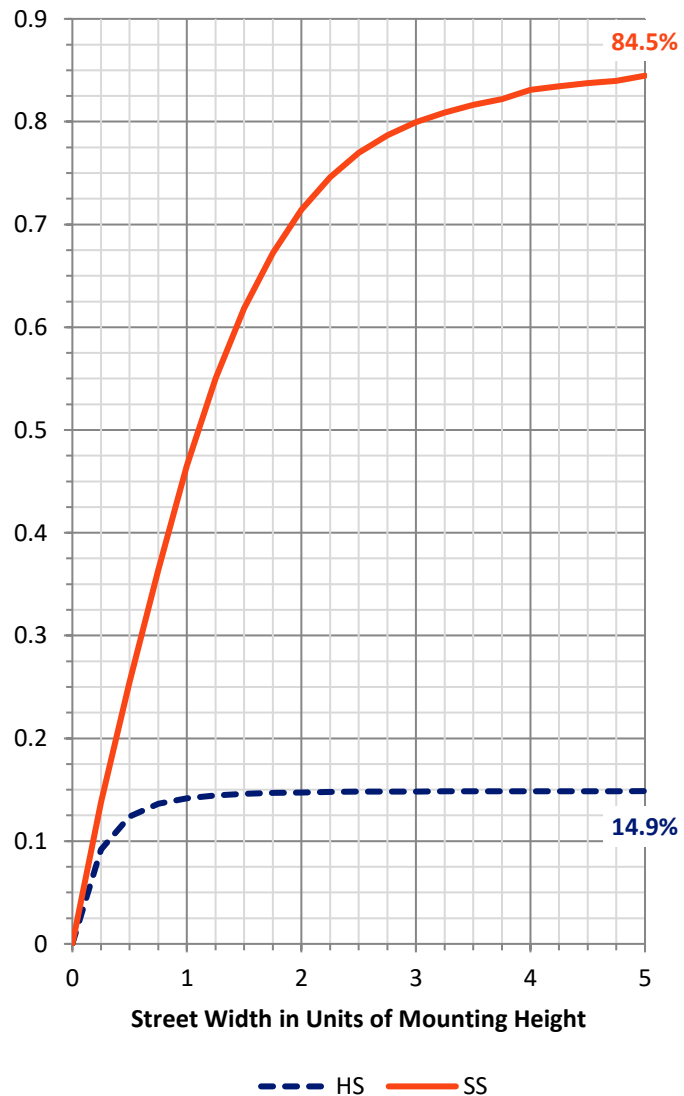
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.8	0.0	1087.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6161.2	0.0	6161.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	7249.0	0.0	7249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	2.5
10°-20°	363.2	5.0
20°-30°	513.9	7.1
30°-40°	755.5	10.4
40°-50°	1085.9	15.0
50°-60°	1528.7	21.1
60°-70°	1785.4	24.6
70°-80°	910.9	12.6
80°-90°	121.0	1.7
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°	7249.0	100.0
0°-180°	7249.0	100.0

Coefficient of Utilization



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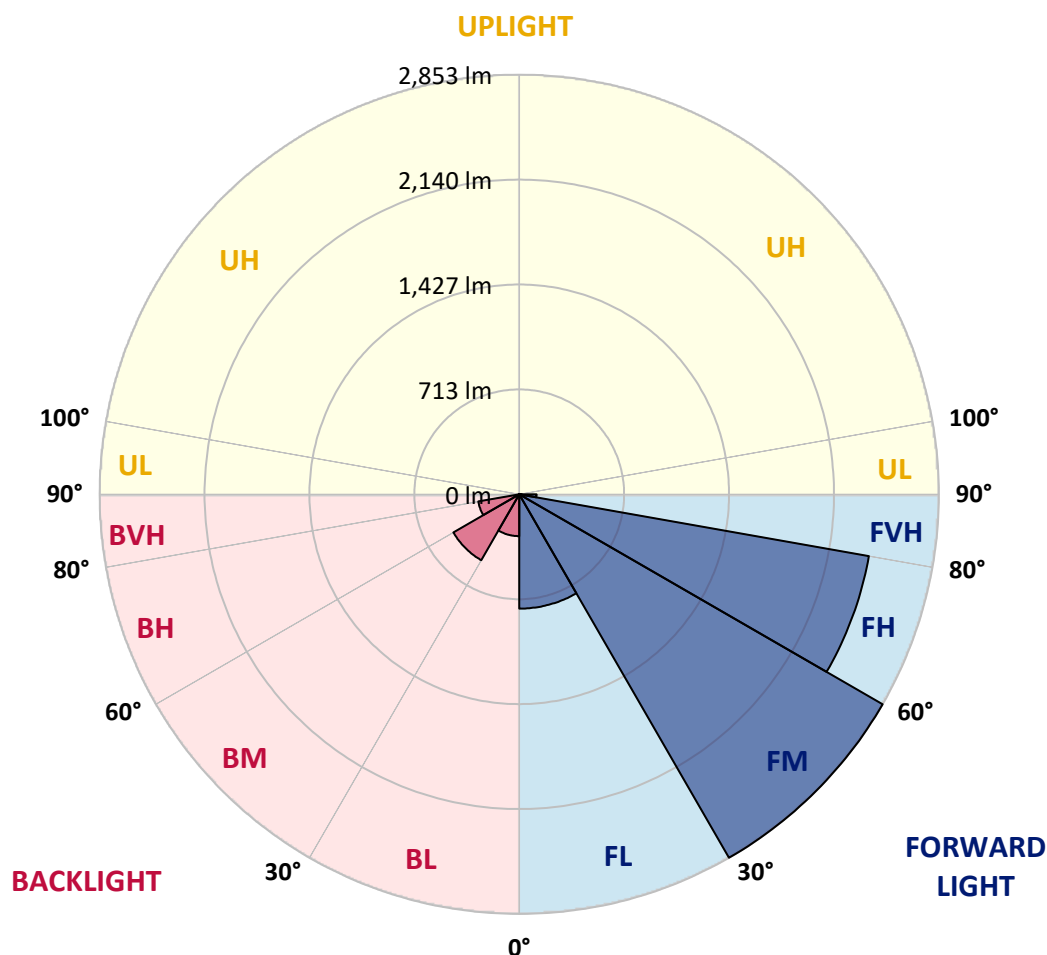
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.1	10.7			
FM	(30°-60°)	2853.1	39.4			
FH	(60°-80°)	2413.7	33.3			G2/5000
FVH	(80°-90°)	117.3	1.6			G2/225
BL	(0°-30°)	284.5	3.9	B1/500		
BM	(30°-60°)	517.1	7.1	B1/1000		
BH	(60°-80°)	282.6	3.9	B1/500		G1/500
BVH	(80°-90°)	3.7	0.1			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2636.2	2640.4	2661.6	2711.1	2765.0	2769.1	2805.5	2768.1	2755.4	2695.0	2632.5
5°	2656.2	2671.9	2745.1	2890.3	3016.4	3056.9	3085.7	3012.3	2935.0	2787.3	2629.7
7.5°	2495.8	2522.2	2637.3	2909.9	3135.2	3234.8	3253.7	3138.6	2949.4	2706.3	2469.3
10°	2290.4	2320.7	2459.4	2794.5	3103.9	3274.6	3300.7	3150.0	2878.0	2575.1	2295.9
12.5°	2124.2	2159.6	2301.4	2664.7	2996.5	3185.3	3236.8	3111.8	2816.2	2482.1	2177.5
15°	2047.7	2088.2	2237.2	2580.9	2877.3	3026.0	3068.6	3014.7	2781.8	2467.3	2150.0
17.5°	2091.6	2135.6	2289.4	2588.2	2765.4	2828.9	2863.2	2885.2	2781.8	2556.2	2230.3
20°	2271.9	2319.3	2482.1	2661.3	2672.6	2648.9	2685.7	2762.9	2814.1	2725.2	2423.3
22.5°	2521.2	2576.8	2760.5	2786.6	2627.3	2537.7	2542.5	2663.7	2872.8	2939.5	2691.2
25°	2825.1	2893.1	3079.9	2973.4	2646.2	2471.4	2469.7	2582.0	2930.2	3154.1	2989.6
27.5°	3126.9	3201.8	3365.9	3201.5	2724.1	2459.4	2456.0	2557.3	2986.2	3345.0	3315.5
30°	3380.0	3452.8	3594.3	3366.6	2808.3	2487.5	2471.1	2583.7	3019.5	3469.0	3553.1
32.5°	3586.1	3644.4	3758.8	3480.3	2898.2	2542.1	2506.4	2654.4	3076.1	3573.7	3771.5
35°	3812.7	3874.2	3919.8	3588.5	2999.2	2620.8	2569.6	2766.7	3163.3	3680.2	4010.8
37.5°	4071.3	4132.4	4126.9	3687.4	3127.3	2750.9	2718.3	2944.6	3299.0	3785.6	4278.0
40°	4324.4	4386.9	4342.2	3795.5	3277.7	2965.5	2941.5	3211.8	3480.6	3920.5	4591.2
42.5°	4561.3	4628.9	4533.5	3897.9	3456.9	3236.1	3277.4	3555.8	3708.0	4086.7	4861.1
45°	4752.2	4821.3	4693.9	3997.4	3645.8	3564.4	3688.4	3937.0	3981.3	4227.2	5043.4
47.5°	4891.0	4956.2	4805.1	4097.0	3887.6	3965.9	4181.9	4336.7	4228.2	4349.1	5172.9
50°	4979.6	5030.4	4837.7	4221.7	4204.9	4434.2	4695.9	4771.5	4460.7	4459.0	5330.2
52.5°	5035.9	5058.9	4861.8	4351.8	4535.9	4944.2	5199.3	5223.0	4700.0	4579.8	5542.0
55°	5229.9	5248.4	5032.1	4509.4	4809.6	5390.9	5654.7	5632.7	4971.0	4816.4	5792.0
57.5°	5560.9	5580.5	5384.1	4736.1	5031.1	5667.0	5984.7	6024.2	5288.6	5148.8	6059.9
60°	5727.1	5763.5	5693.5	5023.2	5245.7	5843.5	6209.6	6335.6	5685.6	5587.0	6319.5
62.5°	5576.4	5629.3	5730.9	5341.5	5458.9	5940.7	6279.6	6447.2	6092.2	6097.6	6479.5
65°	5275.6	5317.8	5490.2	5515.9	5582.6	5928.7	6106.6	6291.3	6341.1	6566.7	6470.9
67.5°	4912.2	4928.0	5074.3	5529.7	5403.3	5567.4	5586.7	5723.3	6144.3	6732.9	6211.0
70°	4389.3	4397.8	4525.6	5069.9	4643.4	4679.4	4650.9	4678.7	5282.4	6328.1	5554.7
72.5°	3532.5	3554.1	3735.8	4210.4	3382.8	3278.7	3502.6	3490.3	4068.2	5346.3	4125.5
75°	2600.9	2638.3	2912.7	3391.4	2374.2	2147.6	2311.0	2354.7	2892.1	4135.5	2579.9
77.5°	1821.0	1848.8	2114.6	2493.0	1718.3	1535.7	1476.6	1528.4	1908.9	2991.6	1299.7
80°	1049.1	1059.4	1229.0	1439.5	1157.9	1324.8	1200.2	1235.9	1143.8	1331.0	559.0
82.5°	686.4	688.2	754.4	856.8	721.1	837.9	620.2	792.9	703.6	534.7	182.0
85°	370.9	372.9	437.5	608.2	408.3	230.8	135.6	278.5	435.1	122.6	49.8
87.5°	40.9	37.4	131.9	221.1	113.3	20.9	7.2	31.2	69.7	7.9	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2600.5	2572.0	2500.9	2425.7	2365.3	2308.6	2251.6	2181.9	2128.0	2117.0	2099.2
5°	2544.9	2454.6	2305.5	2155.8	2035.3	1883.2	1786.7	1711.5	1638.0	1633.5	1618.8
7.5°	2350.5	2231.7	2021.9	1814.8	1645.2	1500.3	1354.0	1256.1	1179.2	1152.1	1135.9
10°	2163.7	2030.1	1768.1	1531.9	1380.4	1252.4	1149.3	1047.0	954.3	890.4	861.6
12.5°	2033.2	1885.6	1596.8	1393.1	1284.6	1163.1	1037.4	909.7	802.9	725.9	678.9
15°	1982.8	1825.1	1539.4	1338.2	1204.3	1050.4	889.7	743.8	625.3	555.6	513.4
17.5°	2042.9	1859.5	1535.0	1271.2	1084.1	892.8	715.3	542.9	431.3	378.4	351.3
20°	2195.3	1968.7	1533.3	1189.2	941.2	706.0	484.5	357.1	289.5	259.9	247.2
22.5°	2411.0	2108.1	1547.0	1108.1	792.6	504.4	334.5	262.4	227.7	211.9	204.7
25°	2688.4	2303.8	1585.8	1034.6	652.8	376.4	260.6	219.8	195.4	183.0	177.9
27.5°	2984.1	2529.1	1646.2	970.8	539.1	300.1	223.2	188.2	170.7	162.1	157.3
30°	3227.9	2790.1	1707.4	899.7	456.7	261.7	204.3	171.7	151.4	145.9	141.5
32.5°	3441.2	2987.5	1750.6	835.5	402.8	232.5	184.7	153.5	139.8	129.1	124.3
35°	3662.0	3152.0	1749.2	790.5	365.7	210.5	168.3	137.4	120.9	108.5	104.7
37.5°	3901.0	3337.8	1719.4	752.0	349.6	193.0	159.0	128.8	112.3	99.9	95.1
40°	4180.8	3532.8	1688.8	716.0	345.1	178.9	152.5	121.9	104.4	92.4	87.6
42.5°	4453.5	3708.7	1662.0	689.2	325.9	178.6	146.6	116.8	98.2	86.5	81.0
45°	4671.5	3872.5	1656.9	673.1	305.6	184.7	143.5	113.3	93.4	81.7	76.6
47.5°	4852.8	4050.3	1689.8	661.7	286.4	168.6	151.1	110.9	88.9	77.6	71.8
50°	5068.5	4268.7	1767.4	643.2	266.1	151.8	173.1	111.6	85.2	73.5	67.3
52.5°	5369.3	4570.9	1881.5	611.9	238.3	136.3	170.3	112.3	81.0	69.0	62.8
55°	5706.5	4948.3	2004.0	560.1	199.5	116.1	145.9	107.5	73.1	64.2	58.4
57.5°	6060.9	5290.7	2076.8	498.3	158.6	100.3	116.8	97.9	64.6	57.7	53.9
60°	6116.5	5420.8	2043.5	422.4	126.0	87.2	86.5	99.6	57.7	50.8	48.1
62.5°	5978.1	5257.4	1882.5	354.7	105.4	76.6	71.1	86.9	52.2	45.3	42.6
65°	5712.0	4815.4	1621.5	319.7	97.9	65.6	59.1	61.1	45.7	39.5	37.1
67.5°	5341.8	4225.5	1331.3	299.8	96.8	56.3	50.5	46.4	39.5	34.3	32.3
70°	4585.0	3520.1	1062.1	288.8	94.1	47.4	42.6	37.8	33.0	29.2	27.5
72.5°	3374.5	2494.4	826.2	276.8	94.8	37.8	37.1	31.2	26.4	22.7	22.0
75°	1949.8	1425.1	541.9	224.2	90.3	29.2	30.9	22.0	18.5	15.8	15.8
77.5°	1039.1	869.1	206.4	93.4	33.0	18.5	17.5	13.0	11.7	9.6	9.3
80°	452.9	382.5	62.2	26.1	18.2	10.0	6.5	5.8	5.2	4.1	3.8
82.5°	160.4	138.4	20.3	12.7	7.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.4	26.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2062.8	2055.2	2010.6	2012.3	2020.2	2031.5	2004.7	2017.1	2050.4	2082.3	2094.4
5°	1595.1	1596.8	1569.7	1586.5	1601.6	1611.9	1568.6	1569.3	1595.8	1631.8	1650.7
7.5°	1123.9	1121.2	1122.6	1162.7	1191.2	1170.6	1186.8	1130.8	1134.2	1160.0	1140.8
10°	835.5	797.7	776.4	806.6	837.9	826.5	798.7	780.5	793.2	821.7	819.7
12.5°	656.6	602.3	570.4	548.7	574.5	553.2	552.5	536.7	519.6	522.6	568.3
15°	493.8	454.3	416.5	381.9	381.2	374.0	337.2	296.0	292.6	294.6	318.3
17.5°	339.6	326.2	310.8	280.9	273.0	242.8	207.1	190.6	182.3	186.1	194.0
20°	238.7	233.5	235.2	219.1	207.8	178.9	158.0	151.4	150.1	153.8	157.6
22.5°	197.8	188.5	187.5	180.3	168.9	148.0	136.7	132.9	131.2	134.6	137.4
25°	173.1	163.8	160.0	155.6	143.5	129.1	122.2	118.8	117.1	119.2	120.9
27.5°	152.5	143.9	140.4	137.4	125.7	115.4	109.9	106.8	105.4	106.1	107.8
30°	137.0	129.5	125.0	121.2	111.3	104.0	99.2	96.2	94.8	94.8	96.5
32.5°	120.9	116.8	112.6	107.8	98.6	93.7	88.9	85.5	84.1	84.5	85.8
35°	100.6	99.2	100.3	95.8	87.9	83.8	79.0	75.2	74.2	74.5	75.9
37.5°	89.3	83.1	86.9	84.5	80.0	74.5	68.3	64.9	63.2	64.2	64.9
40°	82.1	74.5	71.8	74.2	73.5	64.6	59.1	55.6	54.3	54.6	55.3
42.5°	75.9	67.0	60.8	60.4	64.6	56.3	50.5	47.4	45.7	45.7	46.4
45°	70.1	60.4	52.9	47.0	54.3	47.7	42.2	39.5	37.4	37.4	37.8
47.5°	65.6	54.9	46.0	38.5	40.9	39.1	34.7	31.9	29.9	29.9	30.2
50°	61.5	49.4	39.8	32.3	30.6	32.3	28.2	25.1	23.7	23.4	24.0
52.5°	57.0	44.0	34.0	27.5	24.0	24.4	22.0	19.9	18.2	18.2	18.9
55°	52.5	39.5	29.5	23.4	19.9	18.2	17.5	16.1	14.8	14.8	15.5
57.5°	48.1	34.7	25.1	19.2	15.8	14.4	14.4	13.4	12.4	12.4	13.0
60°	44.0	29.9	20.6	15.8	12.4	12.0	12.4	11.3	10.6	10.6	11.3
62.5°	39.1	25.4	16.8	13.0	10.0	9.6	10.6	10.0	9.3	9.3	10.0
65°	33.3	21.6	13.4	10.0	7.6	7.6	8.9	8.2	7.6	7.6	8.2
67.5°	28.2	18.2	10.3	7.2	5.5	5.8	7.6	6.9	6.5	6.5	7.2
70°	23.4	14.1	7.2	4.5	3.1	4.5	5.8	5.8	5.8	5.8	6.5
72.5°	17.5	9.6	4.1	1.7	1.4	3.1	4.8	5.5	5.2	5.2	6.2
75°	11.3	5.5	1.4	0.0	0.0	1.7	3.8	4.5	4.5	4.1	5.2
77.5°	6.5	1.7	0.0	0.0	0.0	0.0	2.4	2.1	1.7	1.4	2.4
80°	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2142.8	2183.3	2240.3	2300.7	2393.8	2467.6	2540.1	2602.2	2626.3	2636.2
5°	1696.0	1755.4	1838.9	1946.0	2113.9	2265.0	2418.2	2572.4	2639.3	2656.2
7.5°	1217.0	1292.9	1399.0	1533.3	1730.0	1925.8	2139.7	2366.0	2469.7	2495.8
10°	900.7	993.4	1115.0	1256.5	1444.3	1645.5	1878.7	2137.3	2255.8	2290.4
12.5°	639.1	764.4	927.2	1099.2	1262.0	1441.6	1677.5	1962.5	2086.8	2124.2
15°	375.3	496.5	689.2	919.6	1128.0	1310.0	1549.7	1872.9	2009.9	2047.7
17.5°	215.3	275.7	421.3	678.2	961.2	1213.2	1509.6	1895.2	2056.6	2091.6
20°	164.5	183.7	242.8	436.8	766.1	1118.1	1509.6	2021.6	2220.4	2271.9
22.5°	143.9	158.0	182.0	260.6	563.9	1016.1	1527.1	2204.2	2464.2	2521.2
25°	127.7	140.4	161.1	196.1	384.6	894.9	1568.6	2428.5	2751.3	2825.1
27.5°	114.4	126.4	144.9	171.7	263.0	748.6	1624.6	2691.5	3067.9	3126.9
30°	102.3	113.7	130.5	149.4	202.9	582.7	1672.3	2939.5	3316.5	3380.0
32.5°	91.0	101.3	116.4	130.5	166.2	431.0	1677.5	3135.9	3522.9	3586.1
35°	80.4	89.6	103.4	114.4	137.7	340.3	1597.5	3306.2	3729.3	3812.7
37.5°	70.1	79.0	91.0	99.2	121.2	277.5	1475.2	3496.1	3994.0	4071.3
40°	60.4	68.3	80.7	86.2	114.7	213.2	1342.3	3695.3	4253.6	4324.4
42.5°	51.5	59.1	71.1	81.7	100.6	159.3	1198.8	3882.1	4487.1	4561.3
45°	42.9	50.8	62.8	86.5	83.4	119.2	1045.3	4006.0	4671.5	4752.2
47.5°	34.7	43.6	60.1	82.4	66.6	87.6	923.7	4123.5	4811.3	4891.0
50°	27.8	36.7	67.6	73.5	54.6	67.0	872.9	4228.6	4903.0	4979.6
52.5°	22.7	30.9	63.9	56.3	45.7	55.3	900.4	4398.9	4987.8	5035.9
55°	18.9	24.4	38.5	39.1	38.8	47.0	934.4	4643.4	5207.2	5229.9
57.5°	16.5	19.6	26.8	30.2	32.6	41.9	935.1	4994.3	5546.8	5560.9
60°	14.1	17.2	22.3	24.4	28.2	37.4	901.1	5116.9	5680.4	5727.1
62.5°	12.4	15.1	18.5	20.3	23.7	33.7	821.4	4939.4	5497.0	5576.4
65°	11.0	13.7	15.5	17.2	20.9	30.2	690.2	4584.3	5192.8	5275.6
67.5°	9.6	12.0	13.7	15.5	18.9	26.8	508.2	4171.9	4843.6	4912.2
70°	8.6	10.6	12.4	13.7	16.5	22.7	308.4	3540.0	4360.8	4389.3
72.5°	8.2	9.6	11.3	12.4	14.4	19.9	156.2	2601.6	3486.1	3532.5
75°	7.2	8.6	10.3	11.0	12.7	17.2	63.5	1708.7	2526.3	2600.9
77.5°	5.8	7.9	9.3	10.0	11.0	14.1	32.3	1092.0	1772.9	1821.0
80°	2.1	5.8	7.9	8.2	9.3	10.3	21.3	597.8	1028.5	1049.1
82.5°	0.0	3.8	6.2	5.8	6.5	7.9	13.7	284.3	678.9	686.4
85°	0.0	1.7	4.8	3.8	2.7	5.5	4.8	62.2	356.1	370.9
87.5°	0.0	0.0	0.3	1.7	1.4	2.1	0.7	0.3	32.3	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)