

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: P458348

Luminaire Tested: **GLAN-SA9D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63305 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 552
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

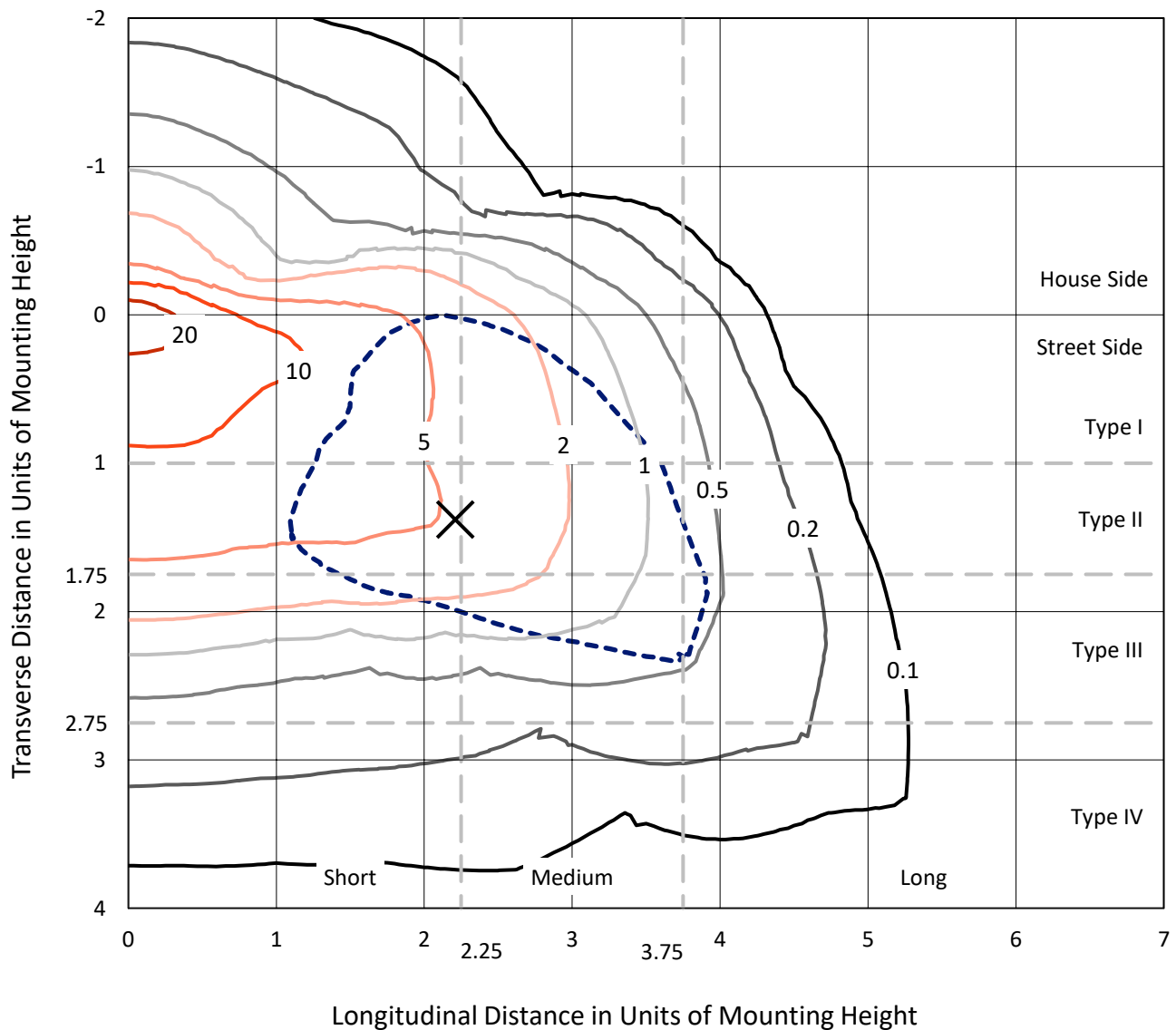


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

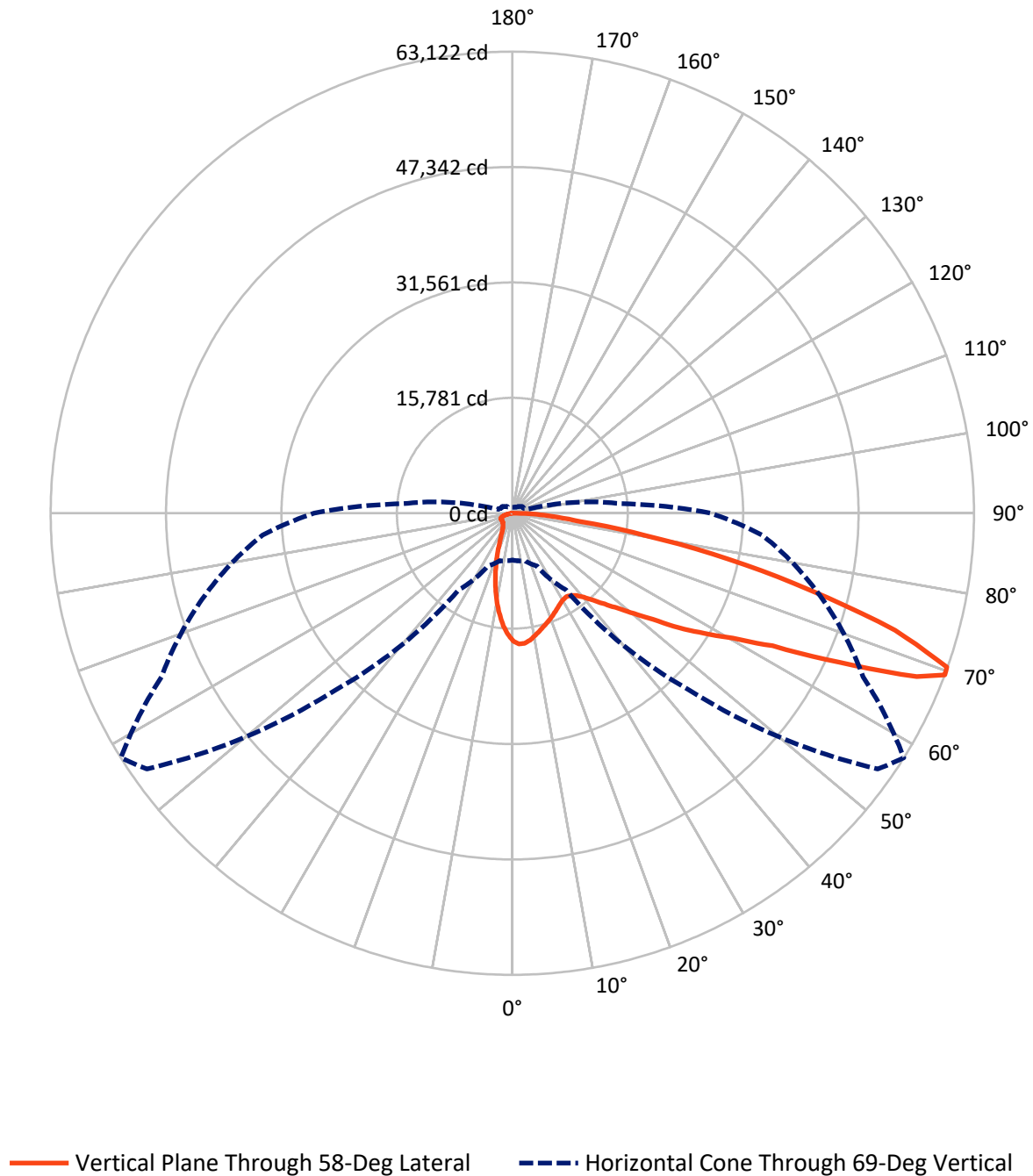


Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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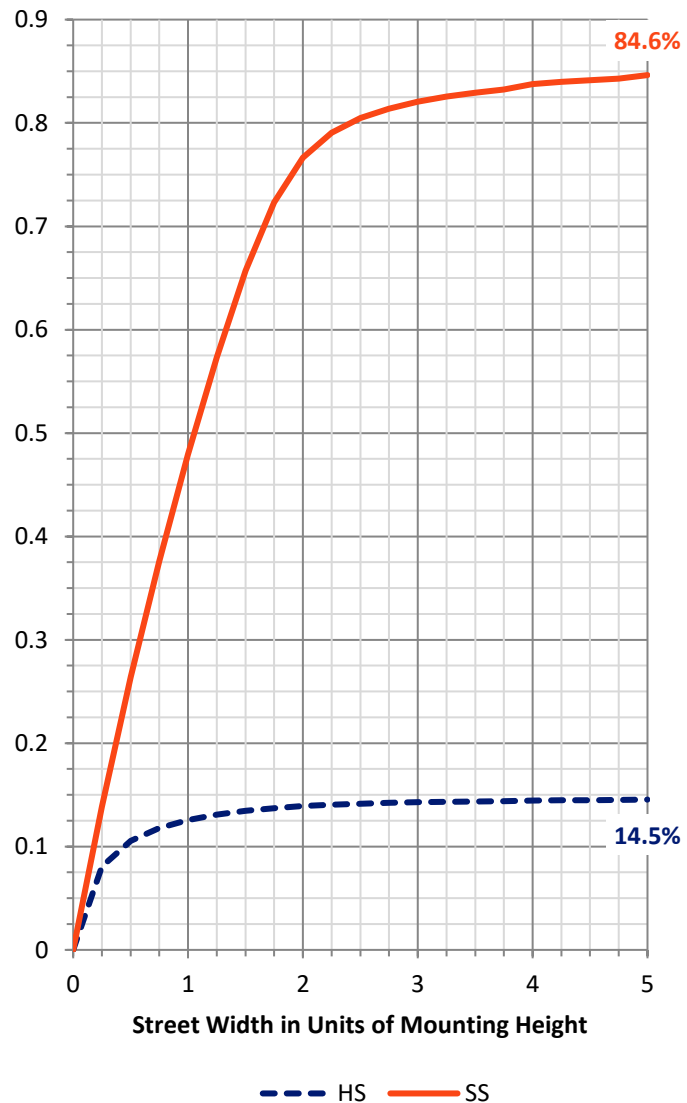
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9277.3	0.0	9277.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	54027.7	0.0	54027.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	63305.0	0.0	63305.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1485.6	2.3
10°-20°	3262.2	5.2
20°-30°	4214.8	6.7
30°-40°	5474.3	8.6
40°-50°	7958.8	12.6
50°-60°	12699.6	20.1
60°-70°	16965.1	26.8
70°-80°	9779.7	15.4
80°-90°	1464.8	2.3
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°	63305.0	100.0
0°-180°	63305.0	100.0

Coefficient of Utilization



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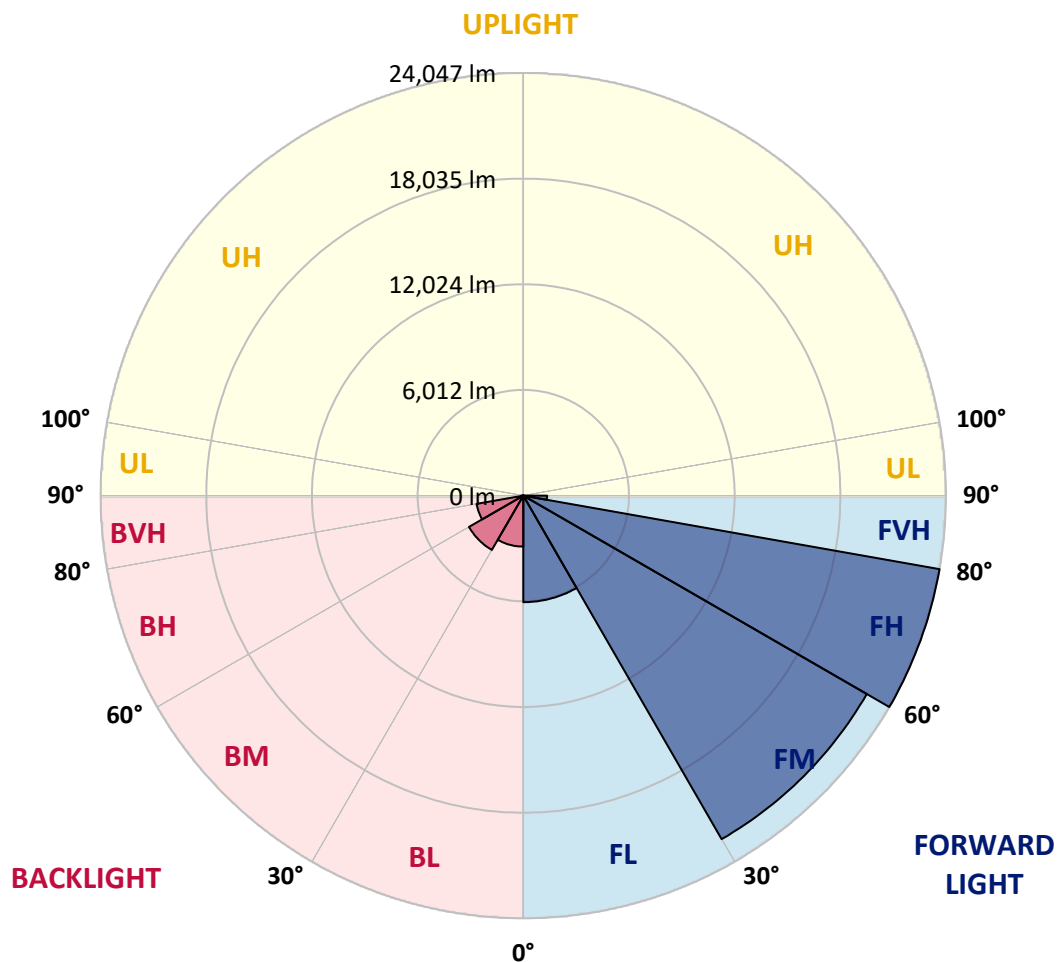
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6063.0	9.6			
FM	(30°-60°)	22564.9	35.6			
FH	(60°-80°)	24047.1	38.0			G5
FVH	(80°-90°)	1352.6	2.1			G5
BL	(0°-30°)	2899.7	4.6	B4/5000		
BM	(30°-60°)	3567.7	5.6	B3/5000		
BH	(60°-80°)	2697.7	4.3	B4/5000		G4/5000
BVH	(80°-90°)	112.2	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8
2.5°	18143.4	18192.8	18178.7	18161.1	18132.8	18055.2	17928.1	17906.9	17825.7	17652.7	17437.3
5°	17864.5	17906.9	17910.4	17935.1	17970.4	17956.3	17864.5	17853.9	17733.9	17500.9	17140.7
7.5°	16907.7	16964.2	17087.8	17225.5	17349.0	17465.6	17493.8	17511.4	17437.3	17169.0	16688.8
10°	15830.9	15887.4	15943.9	16148.7	16452.3	16741.8	16981.9	17013.6	17031.3	16784.2	16198.1
12.5°	14637.6	14754.1	14874.1	15177.8	15583.8	16039.2	16462.9	16530.0	16650.0	16462.9	15774.4
15°	13624.3	13744.4	13917.4	14189.2	14680.0	15336.6	15933.3	16042.7	16279.3	16184.0	15379.0
17.5°	12921.8	12964.1	13084.2	13394.8	13924.4	14616.4	15414.3	15633.2	16011.0	15986.3	15040.1
20°	12367.5	12420.4	12494.6	12685.2	13236.0	13966.8	14930.6	15213.1	15725.0	15809.7	14704.7
22.5°	12134.4	12173.3	12162.7	12265.1	12639.3	13373.7	14439.9	14775.3	15470.8	15689.7	14394.0
25°	12148.6	12183.9	12130.9	12106.2	12328.6	12851.1	13928.0	14355.2	15266.0	15608.5	14111.5
27.5°	12385.1	12409.8	12311.0	12212.1	12229.8	12526.3	13504.3	13977.4	15093.0	15643.8	13875.0
30°	12702.9	12748.8	12685.2	12565.2	12434.5	12448.7	13232.4	13698.5	15011.8	15767.4	13762.0
32.5°	13112.4	13154.8	13126.5	13031.2	12861.7	12674.6	13165.4	13596.1	15018.9	16018.0	13737.3
35°	13543.1	13627.9	13673.8	13666.7	13529.0	13204.2	13430.2	13786.7	15188.4	16438.2	13882.1
37.5°	14030.3	14101.0	14298.7	14425.8	14298.7	13920.9	14026.8	14273.9	15562.6	17045.4	14199.8
40°	14503.4	14609.3	14898.9	15294.3	15244.8	14913.0	14937.7	15100.1	16222.8	17949.2	14821.2
42.5°	14997.7	15124.8	15629.7	16215.7	16332.3	16074.5	16141.6	16286.4	17161.9	19202.6	15887.4
45°	15633.2	15785.0	16406.4	17137.2	17596.2	17437.3	17628.0	17698.6	18418.8	20833.7	17292.6
47.5°	16452.3	16628.8	17394.9	18305.8	18955.4	19100.2	19432.1	19389.7	19975.8	22764.9	19114.3
50°	17832.7	17931.6	18655.3	19583.9	20477.1	21130.2	21490.4	21557.4	21907.0	24643.1	21151.4
52.5°	19474.4	19562.7	20085.2	20897.2	22016.4	23400.4	24290.1	24071.2	24155.9	26930.9	23534.5
55°	21320.9	21469.2	21801.0	22341.2	23792.3	25829.4	27615.8	27668.8	26729.7	29119.8	25818.8
57.5°	22750.8	23001.4	23569.8	24339.5	26178.9	28530.2	30931.0	30966.3	29765.9	31457.1	28339.6
60°	22030.5	22327.1	23626.3	25501.0	29310.5	33243.5	34892.3	34691.0	32721.0	34119.1	31414.7
62.5°	18923.7	18976.6	20865.5	23795.8	30274.3	39549.0	40788.3	39937.4	36664.6	37494.3	34539.2
65°	12247.4	12593.4	14090.4	18196.4	27107.4	43047.8	51118.6	49152.1	42193.4	41324.9	37155.3
67.5°	7731.9	7643.6	8265.0	10390.4	18644.7	39965.6	59934.3	59623.7	49423.9	43743.3	36530.4
69°	6411.4	6510.3	6722.1	7964.9	12830.0	34122.6	60975.9	63122.4	52929.8	43552.7	34260.3
70°	5814.8	5860.7	6083.1	7061.1	9899.6	28579.7	59267.1	63027.1	54306.7	42754.8	32615.1
72.5°	4614.4	4610.9	4992.2	5874.8	7400.0	16314.6	48664.9	54719.7	52767.4	39040.6	26948.6
75°	3505.8	3562.3	3982.4	4971.0	6817.5	8914.6	33960.2	42140.5	42144.0	30835.7	16815.9
77.5°	2527.9	2563.2	3053.9	4173.1	6422.0	7227.0	22620.1	30224.9	28413.7	14129.2	5285.2
80°	1655.8	1677.0	2051.2	3304.6	5790.1	6817.5	13412.5	18500.0	13401.9	3749.4	1747.6
82.5°	907.3	1013.3	1253.3	2139.5	4646.2	6298.5	8152.0	9363.0	5027.5	1669.9	910.9
85°	455.4	483.7	706.1	1249.8	3036.3	5211.1	5677.1	5369.9	2594.9	829.7	473.1
87.5°	134.2	169.5	293.0	483.7	1232.2	2715.0	3159.8	2835.0	999.1	300.1	98.9
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°	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8	17493.8
2.5°	17349.0	17285.5	17003.1	16748.9	16515.8	16268.7	16060.4	15876.8	15894.5	15898.0	15710.9
5°	16953.6	16808.9	16272.2	15770.9	15347.2	14810.6	14351.6	14055.1	13906.8	13709.1	13779.7
7.5°	16417.0	16138.1	15393.1	14559.9	13779.7	13084.2	12328.6	11809.6	11477.8	11156.5	11198.9
10°	15862.7	15414.3	14330.4	13228.9	12219.2	11107.1	10143.2	9317.1	8702.8	8473.3	8321.5
12.5°	15294.3	14704.7	13327.8	11862.6	10468.0	9137.0	7770.7	6884.5	6206.7	5846.6	5892.5
15°	14775.3	14058.6	12282.7	10496.3	8685.1	7099.9	5737.1	4893.3	4420.2	4321.4	4377.9
17.5°	14295.1	13356.0	11304.8	9168.8	7054.0	5324.0	4310.8	3834.2	3643.5	3590.6	3587.0
20°	13800.9	12759.3	10206.8	7749.5	5497.0	4127.2	3537.6	3315.2	3279.9	3301.0	3304.6
22.5°	13299.5	12021.5	9077.0	6340.8	4377.9	3375.2	3092.7	3032.7	3061.0	3110.4	3117.5
25°	12837.0	11371.8	7989.6	5105.2	3495.2	2965.6	2828.0	2828.0	2891.5	2965.6	2969.2
27.5°	12455.7	10743.4	6905.7	4053.1	2926.8	2669.1	2623.2	2647.9	2736.2	2792.7	2796.2
30°	12141.5	10157.3	5881.9	3248.1	2573.8	2432.5	2421.9	2464.3	2527.9	2580.8	2584.4
32.5°	11905.0	9641.9	4925.1	2729.1	2330.2	2252.5	2249.0	2280.7	2316.0	2330.2	2344.3
35°	11813.2	9214.7	4049.5	2400.8	2167.7	2118.3	2118.3	2114.8	2128.9	2136.0	2143.0
37.5°	11887.3	8886.4	3371.7	2188.9	2047.7	2012.4	1991.2	1970.0	1963.0	1963.0	1966.5
40°	12201.5	8713.4	2866.8	2051.2	1963.0	1910.0	1871.2	1846.5	1821.8	1828.8	1835.9
42.5°	12868.8	8745.1	2524.3	1959.4	1888.8	1814.7	1758.2	1730.0	1712.3	1733.5	1730.0
45°	13931.5	9062.9	2305.4	1895.9	1814.7	1719.4	1666.4	1638.2	1638.2	1669.9	1680.5
47.5°	15417.8	9670.1	2188.9	1846.5	1758.2	1645.2	1592.3	1571.1	1578.1	1631.1	1634.6
50°	17232.5	10725.8	2167.7	1821.8	1730.0	1592.3	1532.3	1511.1	1528.7	1585.2	1592.3
52.5°	19234.3	12085.0	2270.1	1825.3	1705.2	1560.5	1482.8	1451.0	1468.7	1514.6	1528.7
55°	21606.9	13786.7	2534.9	1839.4	1669.9	1542.8	1447.5	1376.9	1398.1	1429.9	1433.4
57.5°	24028.8	15933.3	3001.0	1842.9	1641.7	1511.1	1387.5	1295.7	1295.7	1316.9	1327.5
60°	26987.4	18270.5	3615.3	1846.5	1645.2	1465.2	1306.3	1203.9	1189.8	1200.4	1203.9
62.5°	29924.8	20226.4	3717.7	1835.9	1680.5	1419.3	1218.0	1112.1	1087.4	1083.9	1076.8
65°	31220.5	19862.8	3046.9	1786.5	1719.4	1391.0	1147.4	1023.9	981.5	967.4	967.4
67.5°	29109.3	16801.8	2291.3	1719.4	1694.7	1362.8	1080.3	949.7	900.3	872.0	872.0
69°	27125.1	14944.8	2058.3	1673.5	1631.1	1316.9	1038.0	910.9	850.9	819.1	808.5
70°	25592.8	13666.7	1959.4	1634.6	1571.1	1263.9	1006.2	882.6	815.6	780.2	773.2
72.5°	20424.1	10722.2	1715.8	1486.4	1338.1	1062.7	893.2	794.4	730.8	692.0	681.4
75°	11770.8	5811.3	1422.8	1292.2	1076.8	826.1	755.5	692.0	642.6	607.3	596.7
77.5°	3622.3	2245.4	1030.9	1020.3	790.8	639.0	603.7	579.0	543.7	504.9	497.8
80°	1525.2	1143.9	699.0	688.5	526.0	444.8	434.3	430.7	416.6	384.8	374.2
82.5°	836.7	646.1	487.2	423.7	317.7	257.7	268.3	271.9	261.3	229.5	208.3
85°	409.5	353.1	236.5	190.6	144.8	91.8	88.3	105.9	98.9	70.6	77.7
87.5°	81.2	98.9	63.5	28.2	14.1	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)