

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: P970922

Luminaire Tested: **NAV-SB6C-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35962.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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

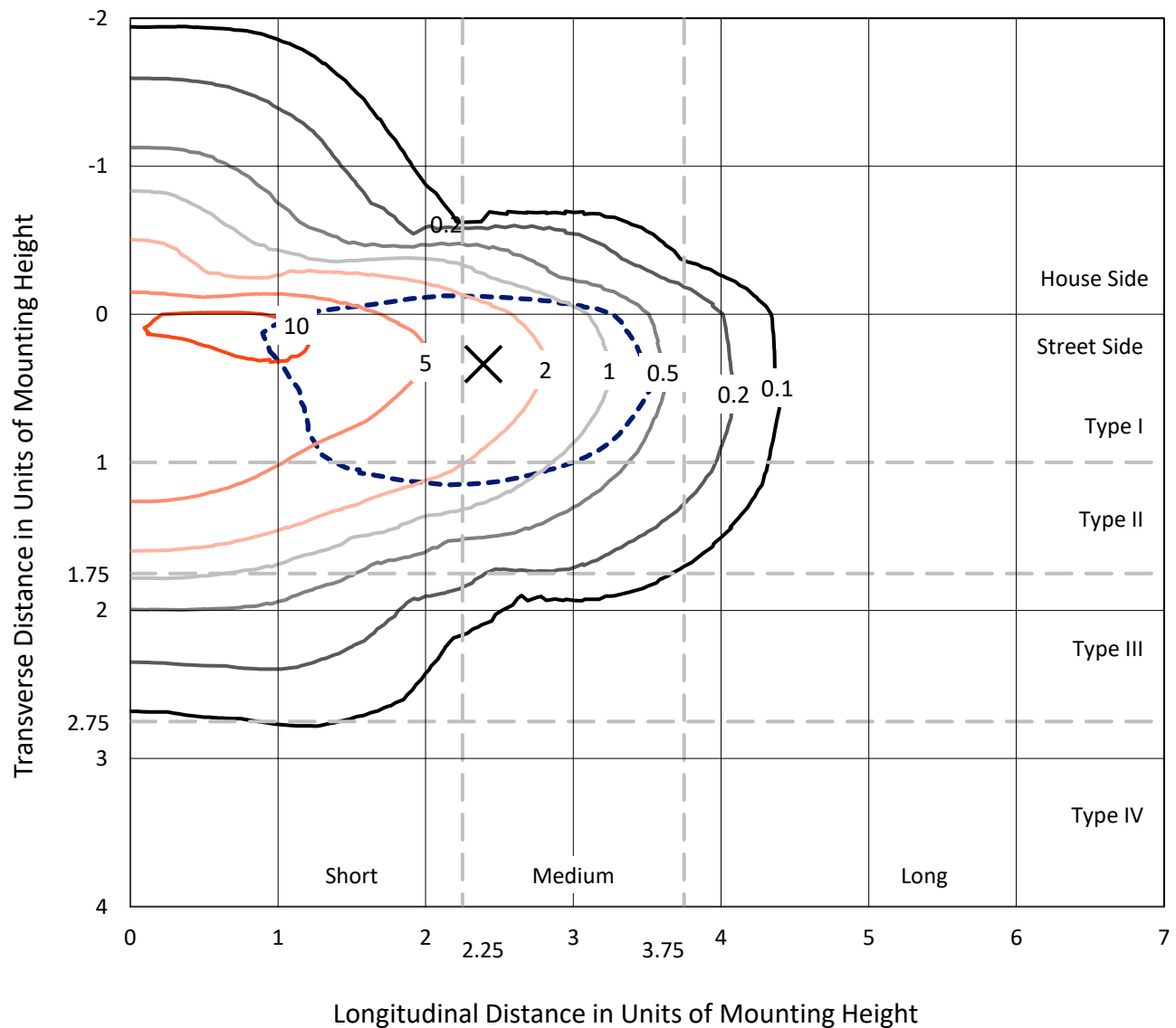


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Iso-Footcandle Lines of Horizontal Illumination

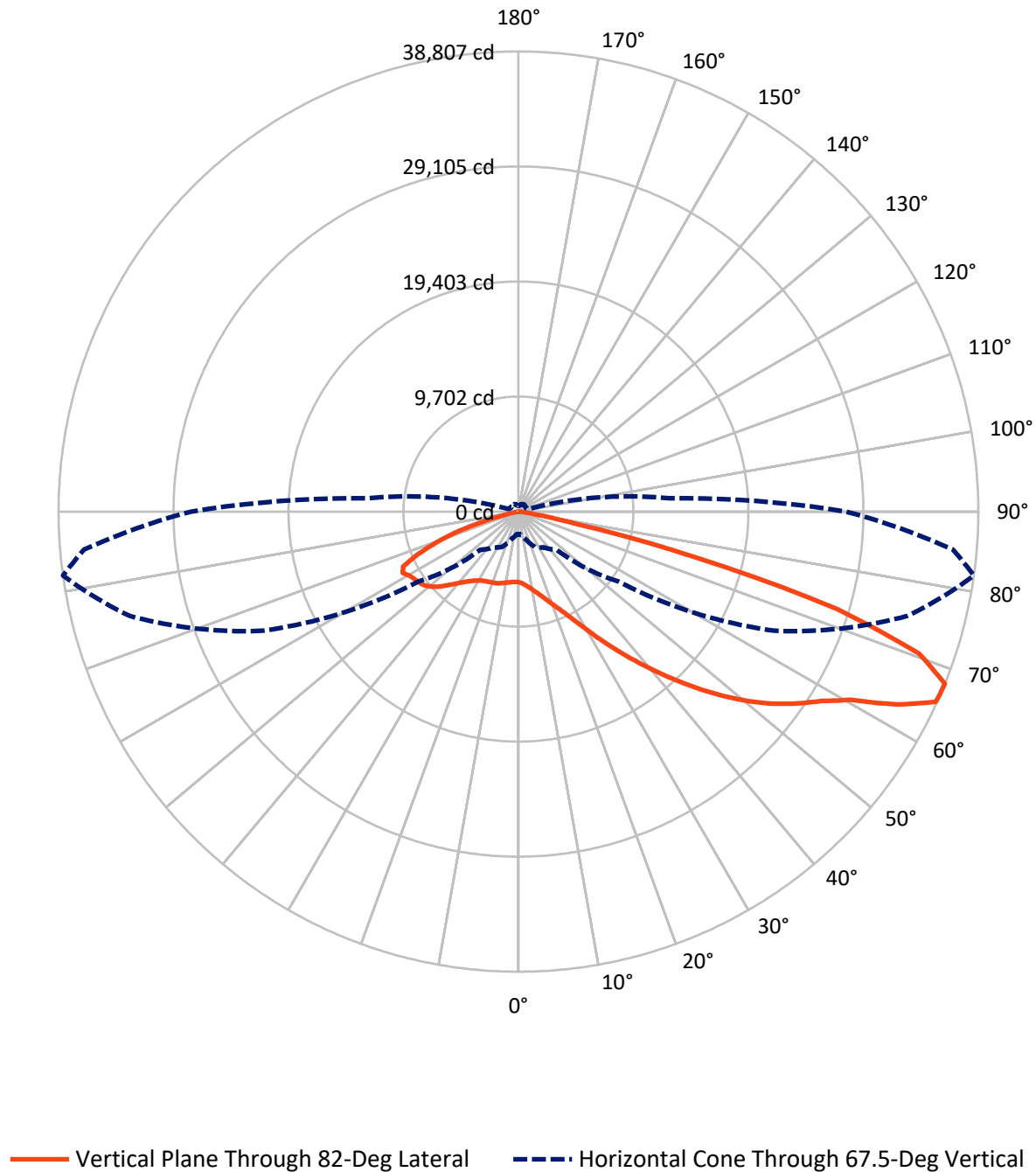
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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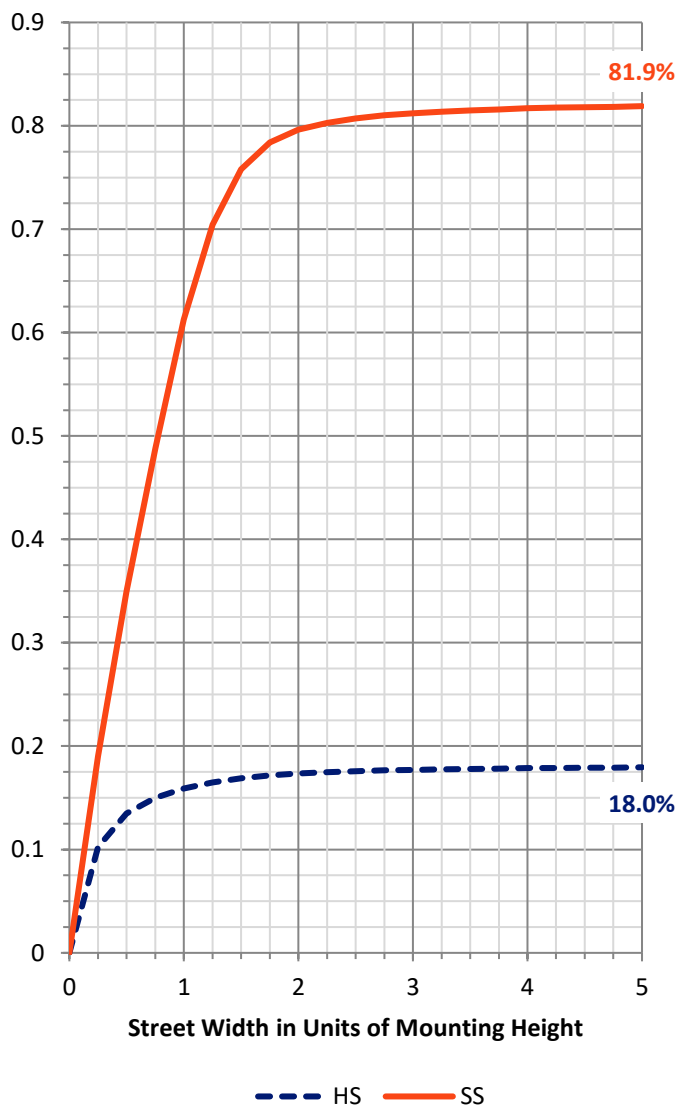
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6514.2	0.0	6514.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29447.9	0.0	29447.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	35962.1	0.0	35962.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	1.5
10°-20°	1379.3	3.8
20°-30°	2209.2	6.1
30°-40°	3906.5	10.9
40°-50°	6844.6	19.0
50°-60°	9128.8	25.4
60°-70°	8498.5	23.6
70°-80°	3261.7	9.1
80°-90°	202.6	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°	35962.1	100.0
0°-180°	35962.1	100.0

Coefficient of Utilization



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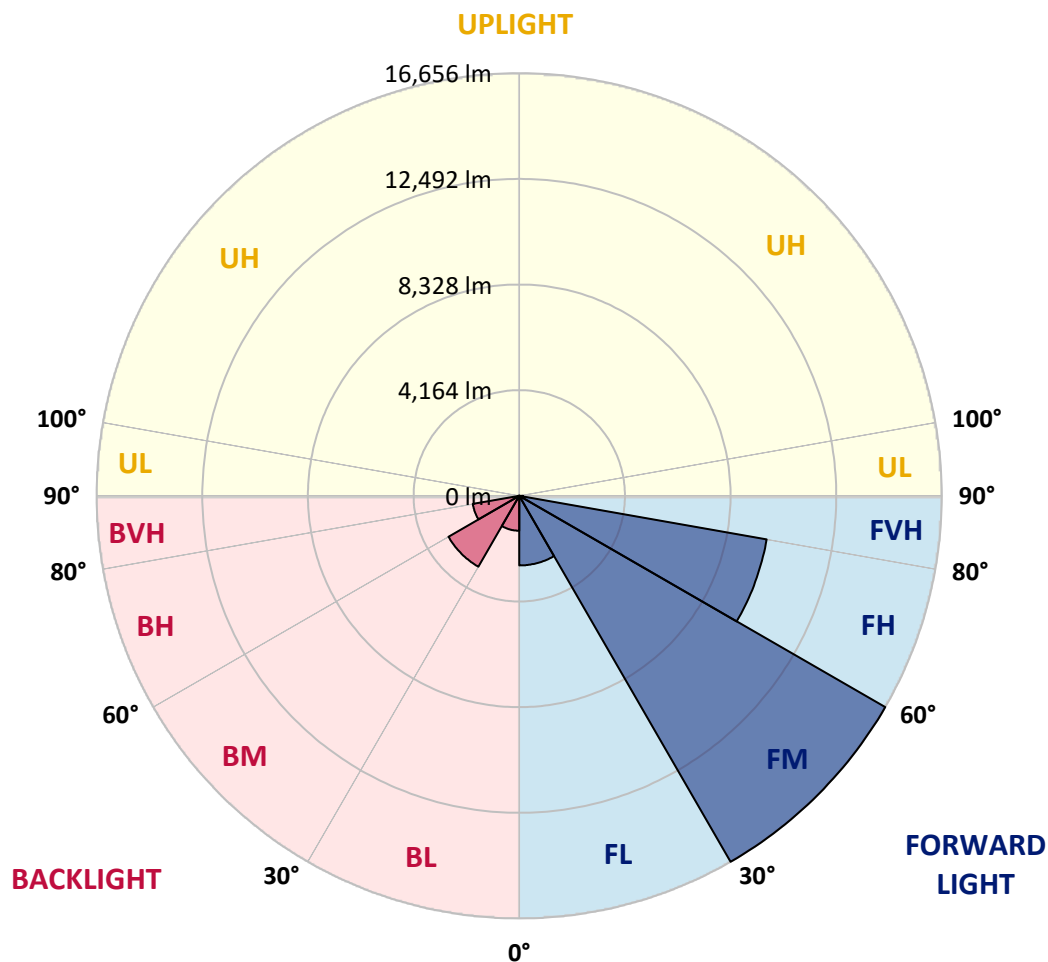
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2743.5	7.6			
FM	(30°-60°)	16656.2	46.3			
FH	(60°-80°)	9900.9	27.5			G4/12000
FVH	(80°-90°)	147.3	0.4			G2/225
BL	(0°-30°)	1375.8	3.8	B3/2500		
BM	(30°-60°)	3223.9	9.0	B3/5000		
BH	(60°-80°)	1859.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	55.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7
2.5°	6296.9	6333.2	6312.5	6302.1	6284.0	6258.0	6237.3	6172.7	6105.3	6061.2	6045.8
5°	6423.8	6460.0	6457.4	6467.7	6480.8	6488.5	6483.3	6410.9	6315.0	6239.9	6195.9
7.5°	6315.0	6356.4	6390.1	6441.9	6532.5	6628.3	6674.9	6659.4	6561.0	6457.4	6403.1
10°	6006.9	6050.9	6131.1	6252.9	6444.5	6651.6	6825.1	6905.3	6843.2	6729.3	6654.2
12.5°	5442.4	5486.5	5644.4	5908.5	6229.5	6589.4	6920.9	7135.7	7151.3	7037.4	6949.4
15°	4808.1	4852.1	5020.4	5351.8	5841.2	6418.5	6972.7	7379.2	7516.4	7418.0	7311.8
17.5°	4414.6	4453.4	4580.2	4846.9	5357.1	6076.8	6954.5	7638.1	7951.3	7873.7	7746.8
20°	4295.5	4329.1	4388.6	4575.1	4999.7	5722.1	6835.4	7881.4	8420.1	8376.0	8233.6
22.5°	4422.4	4453.4	4471.6	4554.4	4821.1	5489.1	6685.3	8130.0	8963.7	8969.0	8795.4
25°	4714.9	4746.0	4725.2	4777.0	4893.6	5416.6	6628.3	8422.6	9647.3	9704.3	9507.5
27.5°	5196.4	5199.1	5149.9	5147.2	5165.4	5525.4	6687.8	8735.9	10509.5	10615.6	10372.3
30°	6162.3	6123.5	5934.4	5729.9	5636.7	5851.5	6853.6	9106.2	11527.0	11716.1	11410.5
32.5°	7651.0	7594.0	7247.2	6757.7	6265.8	6377.1	7151.3	9528.2	12635.2	12977.0	12604.1
35°	9266.7	9251.1	8888.7	8161.0	7301.5	7125.4	7635.5	10082.3	13844.4	14388.1	13945.3
37.5°	10768.4	10760.7	10553.5	9696.5	8650.5	8168.8	8412.3	10807.3	15138.9	15926.0	15403.1
40°	12140.7	12164.0	11956.8	11190.4	10136.6	9507.5	9468.6	11703.1	16578.6	17601.3	16979.8
42.5°	13326.5	13352.4	13142.7	12575.6	11604.7	10988.5	10765.8	12800.9	17984.4	19400.7	18665.5
45°	14131.8	14292.3	14261.2	13808.1	13111.6	12472.1	12324.5	14178.3	19587.1	21308.9	20446.8
47.5°	14359.6	14507.2	14740.2	14802.3	14377.7	13748.5	13924.6	15838.0	21208.0	23219.7	22238.5
50°	13797.7	13935.0	14419.2	15063.8	15359.0	15164.9	15480.7	17616.8	22867.6	25125.4	23996.6
52.5°	12689.6	12829.4	13440.4	14460.6	15664.6	16275.6	17042.0	19369.6	24475.6	26930.0	25661.4
55°	11086.9	11234.4	12018.9	13173.7	15082.0	16733.8	18344.3	21119.9	25948.8	28553.5	27163.1
57.5°	8906.7	9015.5	9831.1	11446.8	13616.5	16278.2	19305.0	23030.7	27336.5	30148.4	28651.9
60°	5805.0	5900.7	6848.4	8650.5	11187.9	14755.8	19496.5	25161.7	29180.1	32222.4	30658.5
62.5°	3860.5	3925.2	4487.0	5810.1	7878.9	11832.6	18375.4	26862.8	31883.1	35831.6	34099.5
65°	2648.7	2713.5	3275.3	4197.1	5090.4	7827.1	15151.9	26637.5	34332.6	38698.0	36649.9
67.5°	1890.1	1944.4	2420.8	3290.9	3684.4	4546.6	10271.3	23758.4	33980.4	38806.7	36787.0
70°	1354.1	1385.2	1778.8	2563.3	2928.3	2731.6	5711.7	18170.9	29752.3	35834.3	33985.6
72.5°	947.6	958.0	1235.0	1952.2	2358.7	1993.6	2718.6	12114.8	22502.5	28126.3	26347.5
75°	642.2	655.1	831.2	1431.8	1892.7	1522.4	1439.6	6496.2	13210.0	15568.7	13955.7
77.5°	393.6	398.7	536.0	978.7	1416.2	1160.0	926.9	2752.3	5111.1	5017.8	4277.3
80°	222.6	222.6	341.7	608.4	965.8	748.2	649.8	1170.3	1618.3	1421.5	1253.2
82.5°	124.2	126.9	248.6	378.0	639.5	442.8	357.3	541.1	699.0	618.8	538.5
85°	51.8	57.0	152.7	178.7	305.6	220.1	145.0	227.9	258.9	230.4	168.3
87.5°	5.2	7.8	46.6	33.6	36.3	44.0	20.7	44.0	36.3	36.3	25.9
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°	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7	5957.7
2.5°	5996.6	5957.7	5859.3	5745.4	5595.3	5522.7	5424.3	5357.1	5300.1	5305.2	5253.4
5°	6113.1	6014.7	5794.6	5520.1	5178.4	4935.0	4676.0	4497.4	4352.5	4321.3	4251.4
7.5°	6273.6	6118.2	5732.4	5238.0	4660.6	4223.0	3832.0	3580.8	3402.2	3345.2	3288.3
10°	6480.8	6255.5	5652.2	4883.2	4052.0	3495.4	3075.9	2879.1	2757.5	2716.0	2685.0
12.5°	6721.5	6413.4	5546.1	4450.8	3425.4	2889.6	2622.9	2524.5	2485.6	2472.7	2464.9
15°	7024.4	6610.2	5385.5	3938.2	2894.7	2519.2	2405.4	2392.5	2397.6	2392.5	2389.8
17.5°	7384.3	6825.1	5124.0	3410.0	2537.4	2330.2	2288.8	2299.2	2312.1	2309.5	2304.4
20°	7777.9	7037.4	4790.0	2941.3	2294.1	2195.7	2172.3	2182.6	2193.0	2187.9	2185.3
22.5°	8225.8	7265.2	4419.7	2576.2	2130.9	2071.3	2045.5	2048.1	2048.1	2037.7	2032.5
25°	8761.8	7516.4	4031.3	2317.3	2006.6	1960.0	1928.9	1918.6	1903.0	1872.0	1866.8
27.5°	9401.3	7783.0	3658.5	2136.1	1908.2	1864.2	1828.0	1802.1	1763.2	1711.4	1706.3
30°	10121.2	8106.7	3342.6	2022.1	1830.5	1786.6	1745.1	1706.3	1649.3	1584.5	1579.4
32.5°	10967.8	8453.7	3112.2	1947.1	1760.6	1714.0	1664.8	1618.3	1556.1	1491.4	1493.9
35°	11977.5	8873.1	2977.5	1895.3	1706.3	1644.1	1589.8	1538.0	1491.4	1434.4	1429.3
37.5°	13072.7	9318.5	2936.1	1869.4	1670.0	1574.2	1512.1	1475.8	1470.7	1436.9	1434.4
40°	14271.6	9846.7	2967.2	1853.8	1631.2	1507.0	1439.6	1431.8	1444.7	1385.2	1387.8
42.5°	15540.2	10473.2	3019.0	1835.8	1576.9	1439.6	1374.8	1374.8	1364.5	1281.7	1281.7
45°	16912.5	11195.7	3070.8	1791.7	1512.1	1372.3	1323.1	1304.9	1261.0	1180.7	1178.0
47.5°	18295.1	11931.0	3109.6	1711.4	1434.4	1315.3	1271.3	1229.9	1165.1	1092.6	1090.1
50°	19607.8	12591.2	3068.1	1592.3	1346.3	1261.0	1214.3	1157.3	1087.4	1038.2	1030.5
52.5°	20780.7	13163.4	2892.1	1452.5	1253.2	1204.0	1162.6	1103.0	1046.0	994.2	989.0
55°	21800.9	13626.9	2581.5	1320.5	1170.3	1154.8	1113.4	1038.2	960.6	916.6	911.4
57.5°	22779.6	13979.0	2193.0	1211.8	1095.2	1100.4	1038.2	971.0	898.4	851.9	846.6
60°	24082.0	14450.2	1799.5	1110.8	1015.0	1030.5	963.2	914.0	823.4	763.8	756.0
62.5°	26163.6	15182.9	1429.3	986.5	921.8	926.9	898.4	838.9	730.1	660.2	655.1
65°	27815.6	14913.6	1126.3	851.9	815.6	823.4	823.4	758.6	642.2	561.8	554.1
67.5°	27629.2	12769.9	898.4	719.8	714.6	719.8	737.9	683.6	569.6	504.9	494.6
70°	25451.7	10157.3	719.8	598.1	621.4	608.4	660.2	624.0	512.7	447.9	440.1
72.5°	20767.8	7317.1	548.9	494.6	476.4	497.1	595.5	561.8	427.2	354.8	347.0
75°	12135.5	3904.5	409.1	390.9	344.4	414.3	528.2	479.0	326.3	261.5	253.8
77.5°	3951.1	1361.9	300.3	287.4	256.4	334.0	450.5	404.0	266.7	207.2	199.4
80°	1058.9	411.6	204.6	189.0	165.7	248.6	357.3	321.0	191.6	134.7	132.0
82.5°	424.7	173.4	119.1	106.2	90.6	170.9	282.2	258.9	142.4	85.5	85.5
85°	137.2	57.0	44.0	33.6	41.4	106.2	168.3	176.1	101.0	44.0	33.6
87.5°	18.1	7.8	7.8	10.4	7.8	18.1	51.8	49.2	28.5	5.2	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)