Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P970385

Luminaire Tested: **NVN-SB6B-740-U-SL2**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P970385
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	NVN-SB6B-740-U-SL2
Description:	NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
	(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	36805.7 lumens
Efficiency:	N/A
Efficacy:	167.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B4 - U0 - G4

Input Watts (W):	220.4
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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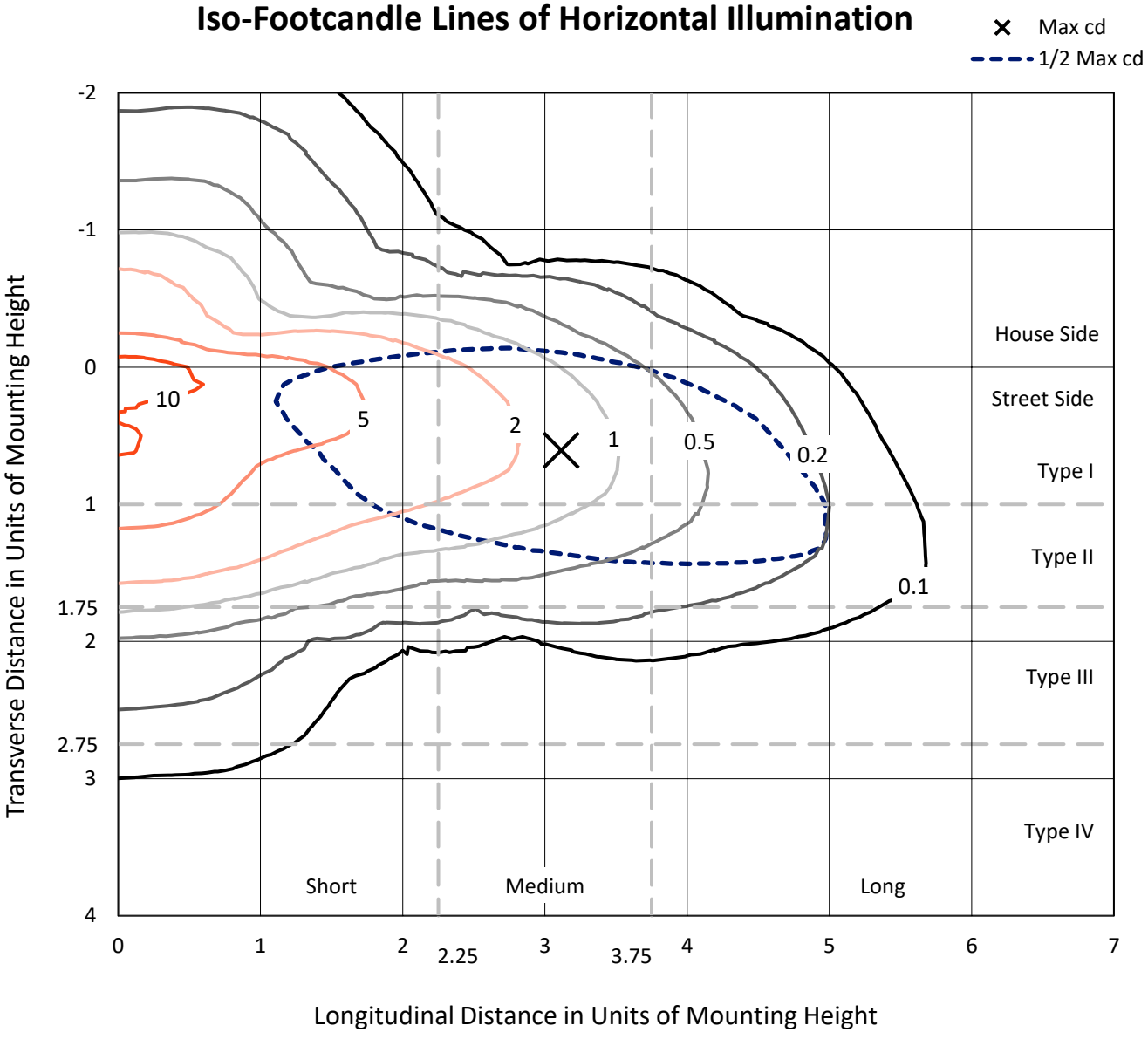
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type II - Medium - N/A

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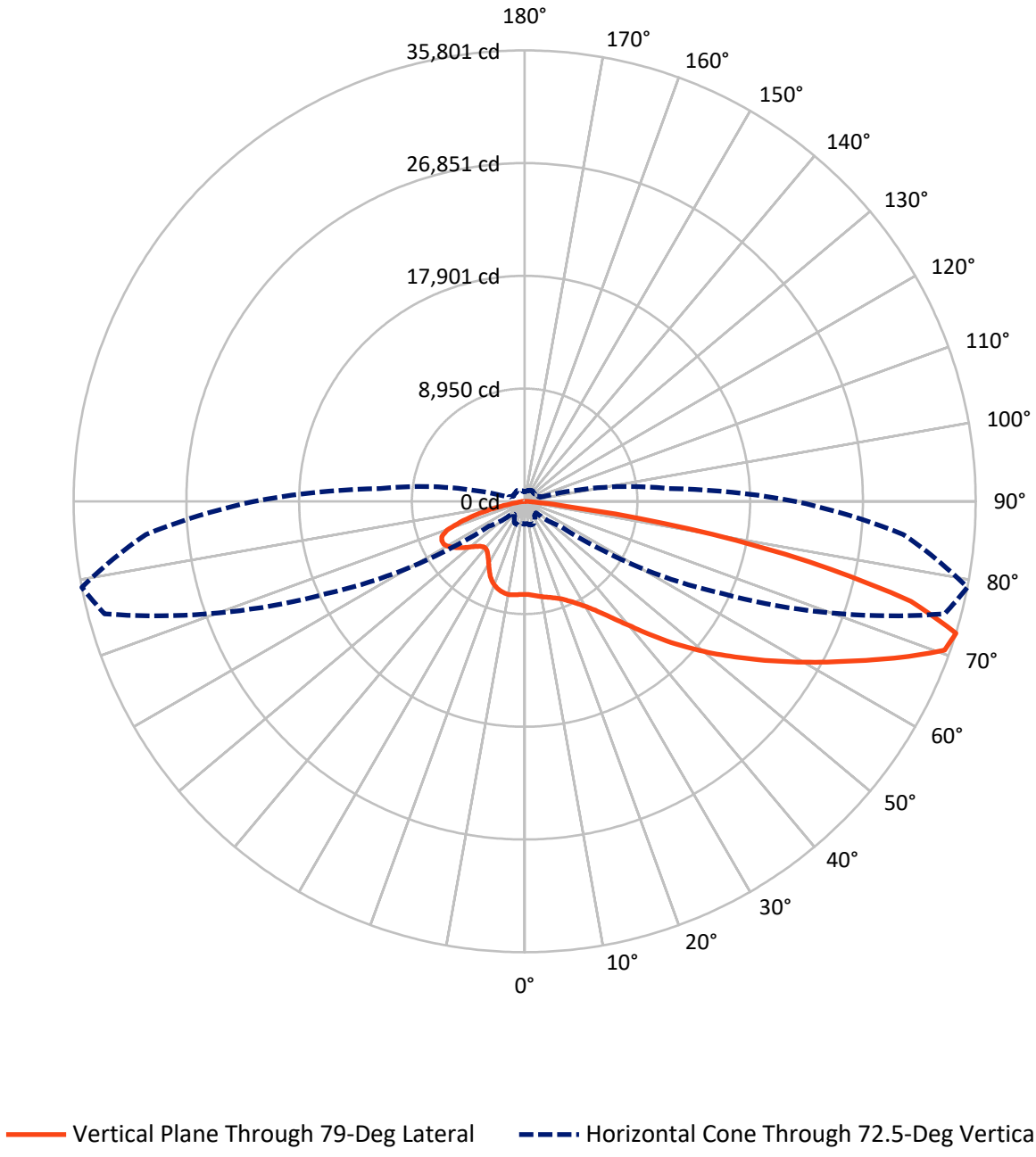
Luminous Intensity Polar Plot



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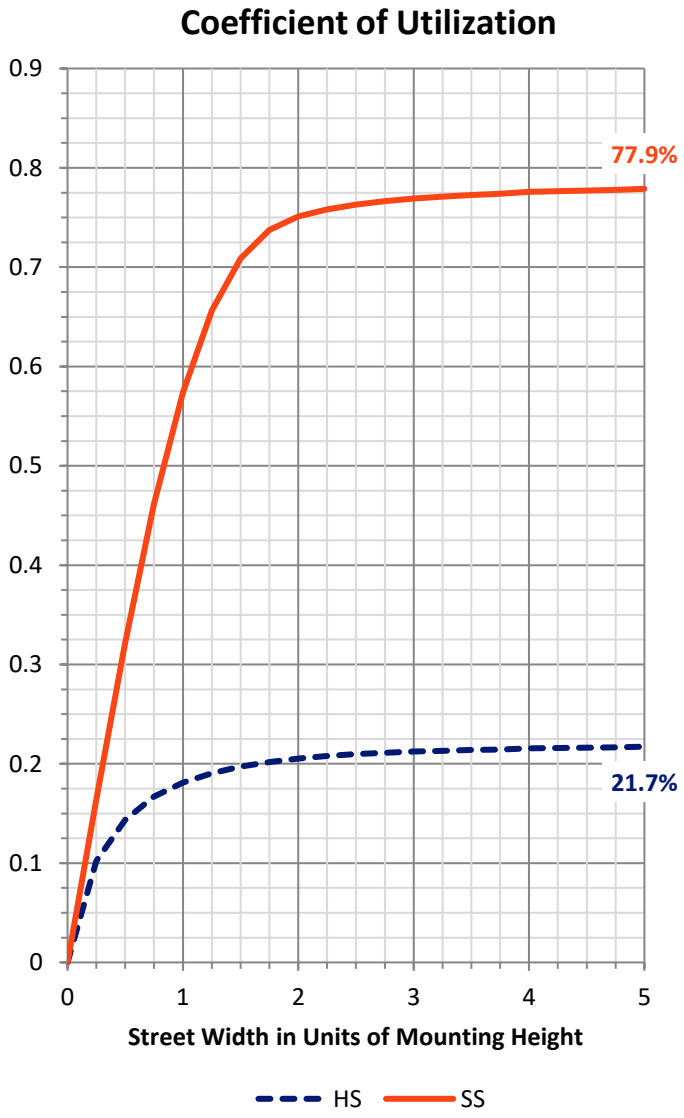
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8099.3	0.0	8099.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28706.4	0.0	28706.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	36805.7	0.0	36805.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.7	1.8
10°-20°	1753.4	4.8
20°-30°	2829.3	7.7
30°-40°	4246.4	11.5
40°-50°	6023.7	16.4
50°-60°	7607.2	20.7
60°-70°	7726.1	21.0
70°-80°	5265.7	14.3
80°-90°	683.2	1.9
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°	36805.7	100.0
0°-180°	36805.7	100.0



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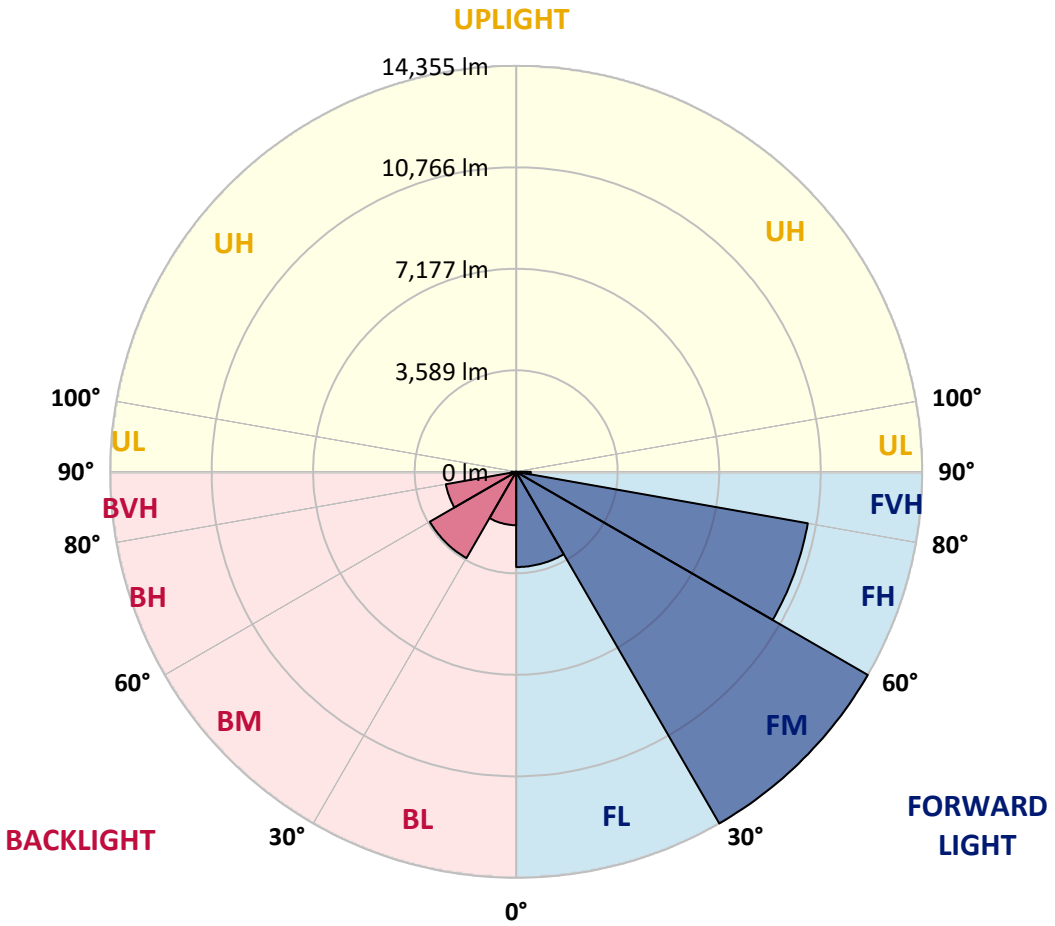
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3366.8	9.1			
FM	(30°-60°)	14355.0	39.0			
FH	(60°-80°)	10470.0	28.4			G4/12000
FVH	(80°-90°)	514.6	1.4			G4/750
BL	(0°-30°)	1886.6	5.1	B3/2500		
BM	(30°-60°)	3522.3	9.6	B3/5000		
BH	(60°-80°)	2521.8	6.9	B4/5000		G4/5000
BVH	(80°-90°)	168.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	*7388.4*	7388.4
2.5°	7392.3	7357.2	7378.7	7370.9	7380.6	7392.3	7396.2	7402.0	7421.5	*7419.6*	7417.6
5°	7376.7	7341.7	7370.9	7361.1	7386.5	7413.7	7437.1	7458.5	7489.7	*7503.3*	7483.8
7.5°	7343.6	7320.2	7349.5	7378.7	7425.4	7466.3	7499.4	7548.0	7592.8	*7600.6*	7614.2
10°	7150.9	7133.4	7201.4	7277.4	7405.9	7516.8	7588.9	7645.4	7694.1	*7701.8*	7721.3
12.5°	6950.3	6928.9	7004.8	7108.1	7316.3	7516.8	7668.7	7742.7	7785.6	*7810.9*	7840.0
15°	6917.2	6899.7	6942.5	7032.1	7205.3	7464.4	7723.3	7859.5	7896.5	*7925.7*	7937.4
17.5°	7076.9	7043.8	7061.3	7092.5	7193.8	7415.7	7766.1	7991.9	8048.4	*8079.6*	8079.6
20°	7446.8	7400.1	7372.8	7310.5	7293.0	7423.5	7762.2	8151.6	8225.5	*8264.5*	8274.2
22.5°	7939.3	7908.2	7849.8	7692.1	7520.7	7518.8	7836.1	8356.0	8494.2	*8531.2*	8507.8
25°	8535.1	8488.3	8414.4	8200.2	7871.2	7707.7	7960.8	8616.9	8848.5	*8858.3*	8790.2
27.5°	9220.4	9150.3	9049.1	8766.8	8322.9	8003.6	8151.6	8916.7	9255.4	*9251.5*	9111.4
30°	9942.7	9872.6	9765.5	9422.9	8864.1	8402.7	8416.4	9239.9	9738.3	*9716.9*	9477.4
32.5°	10470.3	10417.7	10396.3	10131.5	9487.1	8873.8	8720.1	9598.1	10334.0	*10314.6*	9979.7
35°	10875.2	10807.1	10832.4	10698.1	10166.6	9401.5	9092.0	10024.5	11058.2	*11056.3*	10639.7
37.5°	11276.3	11216.0	11237.4	11147.8	10795.4	10071.2	9545.5	10546.2	11955.8	*11998.5*	11437.9
40°	11642.4	11578.1	11663.8	11580.0	11284.1	10783.7	10061.5	11136.1	12995.4	*13077.2*	12403.5
42.5°	11862.3	11811.7	11953.9	11955.8	11708.5	11385.3	10628.0	11786.4	14198.6	*14381.6*	13591.1
45°	11938.3	11920.7	12134.9	12179.7	12084.2	11733.8	11138.1	12495.1	15495.2	*15822.3*	14944.2
47.5°	11856.5	11823.4	12119.3	12284.8	12360.7	11897.4	11560.6	13262.2	16819.0	*17298.0*	16420.0
50°	11443.7	11379.4	11819.5	12168.0	12438.6	12004.4	11987.0	14148.0	18324.0	*18847.7*	17903.5
52.5°	10702.0	10653.3	11153.6	11759.1	12267.3	12057.0	12465.8	15115.6	19753.0	*20430.5*	19424.0
55°	9753.8	9689.6	10240.6	11031.0	11840.9	12039.4	12944.8	16198.0	21439.0	*22126.3*	20995.1
57.5°	8250.8	8122.4	8819.3	9753.8	11145.8	12018.0	13443.2	17274.6	23152.3	*23975.8*	22671.4
60°	6058.7	5867.9	6722.6	7830.4	9786.9	11809.7	14060.3	18481.7	25208.1	*25949.9*	24501.4
62.5°	3527.7	3416.7	3975.6	5009.3	7376.7	10583.2	14406.9	19885.4	27229.0	*28007.7*	26300.4
65°	2739.2	2708.2	2756.7	2836.6	4105.9	7923.8	13338.0	21254.1	29798.9	*30344.0*	28175.2
67.5°	2505.6	2482.2	2503.7	2353.8	2083.1	4413.5	10552.1	21600.5	32551.7	*32882.7*	29816.4
70°	2227.2	2200.0	2270.1	2141.5	1639.3	2007.3	6818.0	20342.9	34742.0	*35363.0*	31064.4
72.5°	*1814.5*	*1783.3*	*1946.9*	*1888.5*	*1380.4*	*1288.8*	*3424.5*	*17354.5*	*34512.3*	*35801.1*	*30170.8*
75°	1394.0	1376.5	1571.1	1619.8	1125.2	1014.3	1643.2	12900.0	30371.3	*31669.8*	26002.5
77.5°	1082.5	1068.9	1168.1	1345.3	907.2	786.6	1010.4	8182.7	22887.4	*23115.3*	17919.0
80°	811.8	773.0	864.4	1041.6	706.7	574.3	685.3	4771.8	14467.3	*13114.2*	7799.2
82.5°	508.1	488.6	564.6	695.1	498.4	395.2	445.9	2636.1	5797.8	*3414.8*	1504.9
85°	290.1	282.3	307.6	397.2	270.6	227.8	255.0	1164.2	1059.1	*728.2*	453.7
87.5°	116.8	113.0	140.2	177.1	99.3	83.7	89.6	280.3	233.6	*216.1*	150.0
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°	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4	7388.4
2.5°	7409.8	7409.8	7382.6	7339.7	7291.0	7259.9	7209.2	7195.6	7143.1	7127.5	7152.9
5°	7499.4	7483.8	7400.1	7279.3	7113.9	6962.0	6794.6	6689.5	6541.5	6489.0	6527.9
7.5°	7612.3	7569.4	7425.4	7160.6	6814.1	6473.4	6119.0	5850.4	5593.4	5501.9	5513.6
10°	7715.5	7655.1	7409.8	6946.4	6346.8	5756.9	5192.3	4797.1	4497.3	4374.6	4401.9
12.5°	7818.7	7707.7	7306.6	6590.1	5682.9	4882.8	4281.2	3973.6	3788.6	3640.7	3689.3
15°	7916.0	7760.3	7147.0	6113.2	4954.8	4142.9	3699.0	3453.7	3305.8	3208.5	3226.0
17.5°	8028.9	7805.1	6907.5	5507.7	4261.7	3631.0	3268.8	3120.8	3091.6	3079.9	3087.7
20°	8186.6	7845.9	6592.1	4830.2	3751.6	3222.1	3035.2	3021.6	3019.6	3013.8	3033.3
22.5°	8356.0	7894.6	6175.5	4215.0	3317.5	2967.1	2934.0	2906.7	2889.2	2887.2	2908.6
25°	8556.5	7910.1	5653.7	3710.7	2947.6	2846.3	2807.4	2766.5	2754.8	2754.8	2766.5
27.5°	8751.2	7857.5	5046.3	3272.7	2739.2	2735.3	2684.8	2671.1	2669.2	2675.0	2690.6
30°	8945.9	7758.3	4442.8	2867.7	2618.6	2618.6	2601.0	2610.8	2618.6	2638.0	2651.7
32.5°	9208.7	7653.2	3938.6	2567.9	2513.4	2493.9	2511.5	2530.9	2538.7	2564.0	2585.5
35°	9594.2	7579.2	3537.5	2404.3	2404.3	2379.1	2388.9	2385.0	2367.4	2355.8	2383.0
37.5°	10104.2	7575.3	3206.5	2328.5	2312.9	2309.0	2311.0	2285.6	2217.5	2135.7	2137.6
40°	10717.5	7680.4	2951.5	2275.9	2264.2	2287.6	2275.9	2207.7	2020.9	1878.7	1874.8
42.5°	11541.1	7980.2	2787.9	2211.6	2246.7	2275.9	2229.2	1993.6	1867.0	1771.6	1767.7
45°	12510.6	8467.0	2704.3	2143.5	2213.6	2248.6	2022.8	1919.6	1818.4	1703.6	1695.8
47.5°	13608.6	9080.3	2684.8	2079.2	2139.6	2161.0	1935.2	1888.5	1773.6	1649.0	1639.3
50°	14804.1	9806.4	2737.3	2003.4	2032.6	1958.6	1906.0	1863.1	1744.4	1621.8	1608.1
52.5°	16040.3	10606.6	2842.4	1900.1	1925.5	1843.7	1894.3	1857.3	1726.9	1561.4	1549.7
55°	17255.2	11412.6	2943.7	1779.4	1816.4	1740.6	1861.2	1833.9	1647.1	1460.1	1450.4
57.5°	18489.5	12214.7	3042.9	1672.4	1711.3	1641.2	1808.6	1771.6	1557.5	1366.7	1362.8
60°	19772.5	12993.4	3089.7	1569.2	1596.4	1549.7	1728.9	1664.6	1456.2	1271.3	1265.5
62.5°	20973.7	13641.7	3013.8	1466.0	1483.5	1464.0	1623.7	1538.0	1355.0	1164.2	1162.2
65°	22178.8	14027.2	2780.1	1364.8	1368.7	1358.9	1475.7	1401.8	1236.3	1070.8	1059.1
67.5°	23271.0	14243.3	2408.2	1255.7	1246.0	1242.1	1337.5	1253.8	1121.4	977.3	965.7
70°	23502.7	13694.3	1839.8	1127.2	1127.2	1117.6	1185.6	1100.0	994.9	878.0	874.1
72.5°	*21466.3*	*11519.7*	*1306.4*	*981.2*	*996.8*	*977.3*	*1033.8*	*961.8*	*866.3*	*788.5*	*765.2*
75°	17309.7	8447.5	950.1	831.3	858.5	825.4	878.0	827.4	745.7	743.7	669.7
77.5°	11893.5	5223.5	689.2	685.3	704.8	661.9	722.3	695.1	621.0	587.9	550.9
80°	5075.5	2083.1	502.2	529.5	529.5	490.6	560.7	568.5	504.2	488.6	488.6
82.5°	1010.4	591.8	352.4	364.1	342.7	331.0	397.2	440.0	607.4	675.6	677.5
85°	303.7	218.0	212.2	198.5	175.2	177.1	233.6	442.0	545.1	311.5	268.7
87.5°	83.7	54.5	56.5	44.8	37.0	48.7	79.8	334.9	183.0	77.9	66.2
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)