

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: P959982

Luminaire Tested: **NAV-SB1B-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

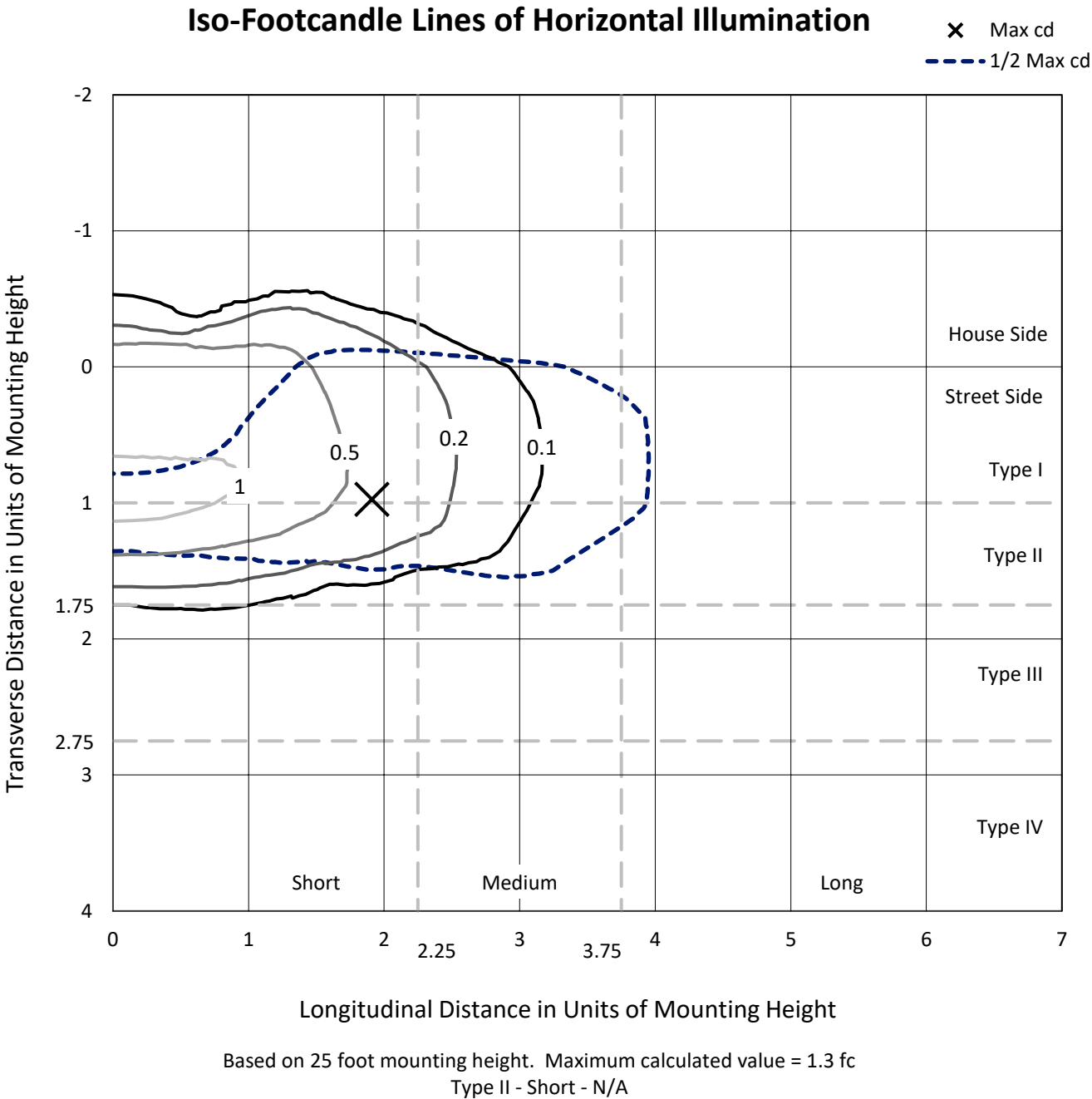
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3964.7 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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

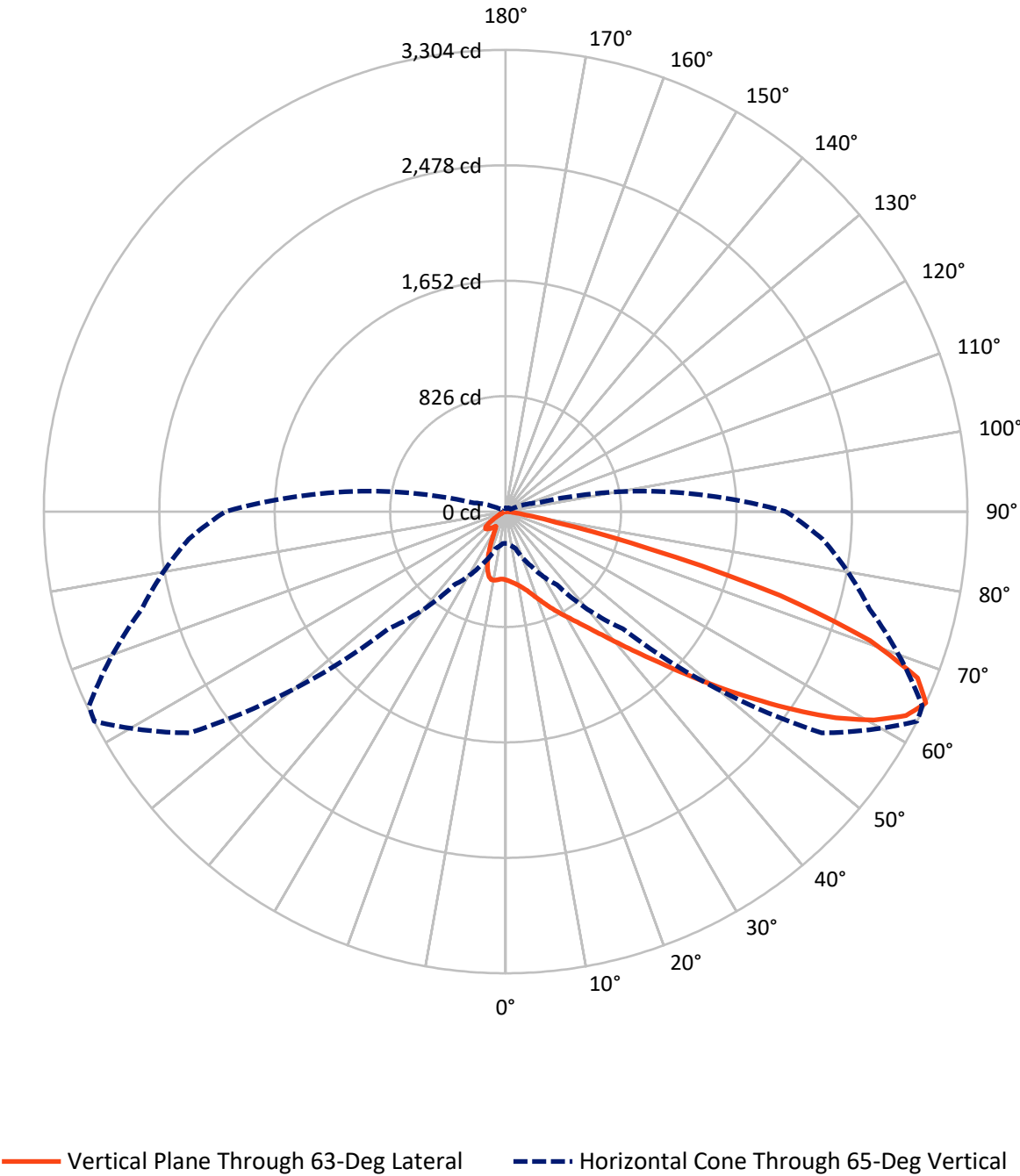


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Luminous Intensity Polar Plot



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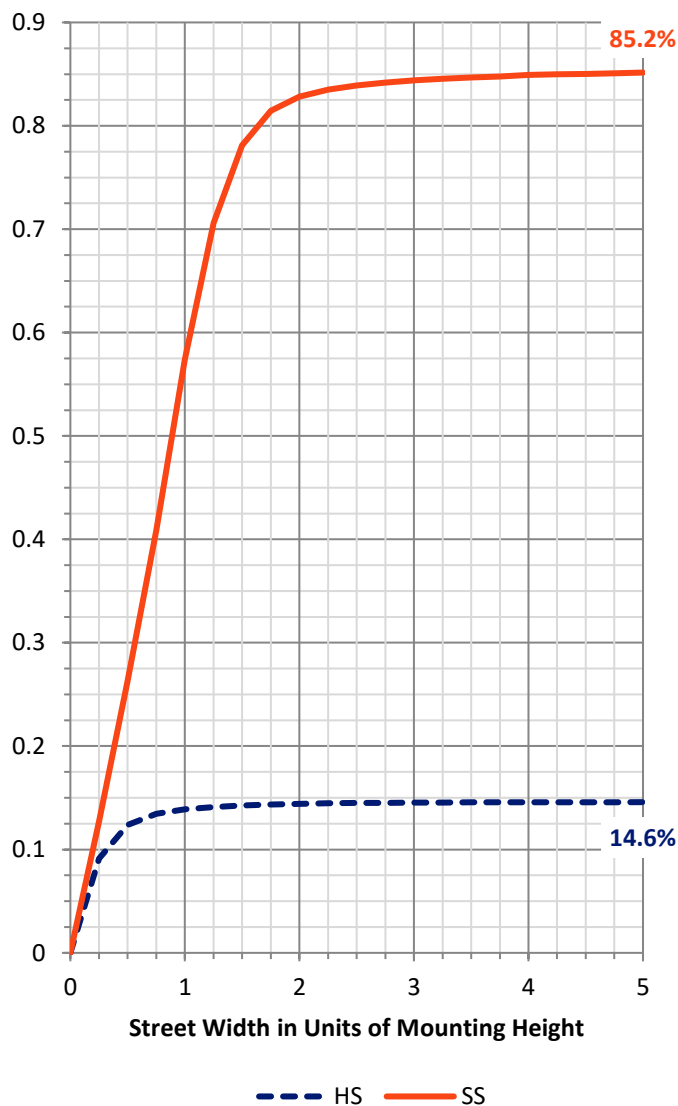
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	582.8	0.0	582.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3381.9	0.0	3381.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	3964.7	0.0	3964.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.2
10°-20°	127.9	3.2
20°-30°	222.7	5.6
30°-40°	401.5	10.1
40°-50°	796.2	20.1
50°-60°	1084.6	27.4
60°-70°	865.7	21.8
70°-80°	391.8	9.9
80°-90°	28.2	0.7
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°	3964.7	100.0
0°-180°	3964.7	100.0

Coefficient of Utilization



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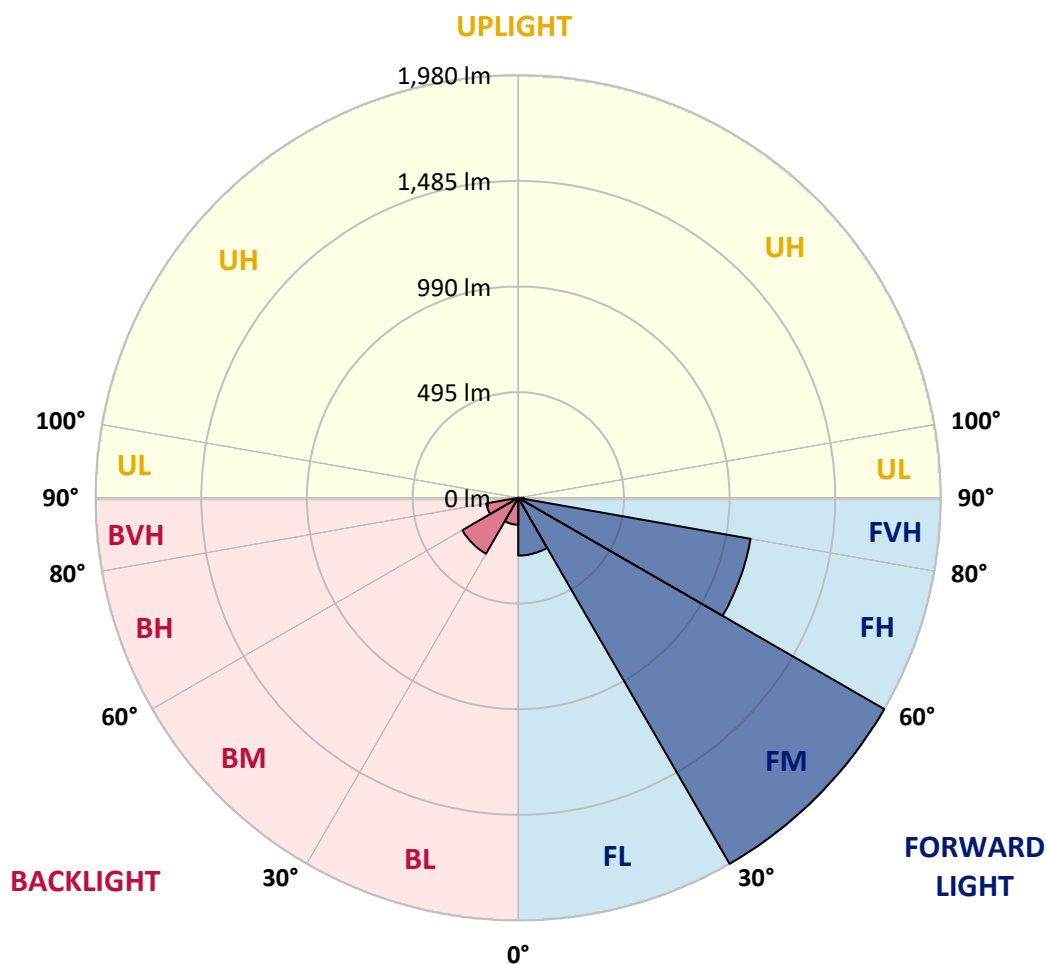
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.6	6.8			
FM	(30°-60°)	1979.9	49.9			
FH	(60°-80°)	1105.3	27.9			G1/1800
FVH	(80°-90°)	26.1	0.7			G1/100
BL	(0°-30°)	126.1	3.2	B1/500		
BM	(30°-60°)	302.4	7.6	B1/1000		
BH	(60°-80°)	152.1	3.8	B1/500		G1/500
BVH	(80°-90°)	2.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3
2.5°	500.8	499.4	501.3	500.5	500.0	498.9	498.4	497.7	496.7	495.9	492.6
5°	502.1	501.3	503.3	504.9	506.5	508.1	508.9	510.0	508.9	506.8	503.5
7.5°	490.7	490.2	494.3	499.2	506.5	512.8	519.6	523.4	523.7	522.9	519.4
10°	489.8	488.5	492.6	498.6	508.1	519.4	531.4	539.5	540.6	544.2	540.3
12.5°	502.7	501.3	507.1	513.6	523.4	535.2	549.9	561.3	562.9	567.8	565.2
15°	524.2	522.3	528.9	537.3	549.9	563.2	578.8	589.2	590.5	596.6	591.6
17.5°	549.3	547.5	555.0	564.1	577.7	595.9	614.0	625.5	627.1	630.9	621.9
20°	581.5	579.0	585.1	593.3	607.7	629.6	651.1	667.4	667.2	667.2	652.4
22.5°	618.9	615.1	620.2	626.8	640.4	666.9	695.6	714.8	714.8	707.2	683.0
25°	659.0	655.2	660.9	666.9	678.9	708.9	742.4	766.4	767.5	754.4	715.7
27.5°	709.2	704.3	708.6	715.7	722.8	753.4	793.1	821.0	821.5	801.3	746.8
30°	805.8	791.8	778.2	770.5	773.8	804.1	846.6	877.4	880.2	852.4	780.6
32.5°	982.5	979.7	931.7	869.0	836.3	858.6	906.4	943.4	945.0	909.4	824.5
35°	1257.2	1253.9	1176.7	1057.2	950.6	931.7	978.9	1022.8	1021.7	981.3	881.5
37.5°	1585.0	1582.0	1480.2	1320.4	1147.8	1042.2	1072.5	1118.6	1125.3	1072.5	955.2
40°	1865.1	1853.9	1789.5	1635.4	1409.6	1225.5	1205.6	1236.1	1243.2	1180.5	1048.8
42.5°	2077.3	2067.7	2035.0	1938.7	1726.5	1496.6	1362.4	1374.1	1382.0	1306.8	1156.2
45°	2187.2	2185.0	2198.1	2189.1	2049.5	1829.3	1586.6	1537.8	1540.8	1446.7	1278.1
47.5°	2202.7	2201.7	2261.4	2345.9	2327.2	2204.7	1874.3	1741.8	1731.1	1604.6	1410.7
50°	2111.1	2108.9	2223.5	2382.0	2512.6	2520.0	2201.1	1971.7	1948.3	1768.0	1549.0
52.5°	1818.5	1817.9	2006.1	2269.9	2577.8	2796.0	2524.1	2224.2	2185.0	1940.9	1695.1
55°	1399.2	1409.3	1625.0	1936.8	2458.9	2928.8	2814.0	2504.7	2444.4	2114.9	1829.9
57.5°	991.2	1005.9	1219.2	1496.9	2090.1	2850.3	3010.1	2785.6	2720.8	2288.4	1966.6
60°	532.4	545.5	759.1	1090.5	1554.9	2557.4	3113.4	3029.5	2968.1	2453.1	2089.9
62.5°	317.2	321.5	409.9	704.0	1051.8	1953.8	3069.6	3215.2	3164.8	2591.4	2197.0
65°	227.8	228.6	273.1	429.9	638.5	1187.1	2761.7	3304.1	3288.6	2695.6	2276.4
67.5°	191.8	191.2	209.7	285.6	435.0	594.6	2116.5	3178.4	3244.4	2761.7	2321.4
70°	164.5	165.3	187.1	209.2	327.1	336.6	1052.3	2767.4	2908.1	2779.1	2318.7
72.5°	122.5	125.2	145.3	190.6	246.8	231.5	363.3	2051.9	2306.4	2618.5	2198.4
75°	86.5	87.8	102.3	160.4	184.1	168.6	185.4	1060.8	1386.9	2007.5	1799.4
77.5°	66.5	69.0	77.5	112.1	181.4	118.4	113.5	367.2	564.1	1212.7	1233.7
80°	36.0	40.4	56.0	81.0	127.4	83.7	56.2	146.2	191.2	567.0	475.7
82.5°	18.6	20.7	39.1	58.3	72.6	73.1	27.8	60.8	78.8	175.1	65.2
85°	7.4	9.0	26.1	32.2	37.4	36.0	12.5	24.5	28.4	48.6	19.9
87.5°	1.6	2.8	9.5	7.4	7.1	7.7	3.0	5.7	5.4	5.7	3.6
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°	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3	489.3
2.5°	492.3	491.2	488.2	484.9	481.1	479.0	477.5	477.3	475.4	474.1	475.4
5°	500.5	499.4	493.6	486.9	479.5	473.8	468.3	463.4	456.3	455.0	454.4
7.5°	516.9	513.8	504.6	495.3	481.4	464.7	444.5	421.4	400.7	394.4	391.4
10°	537.1	533.0	521.2	504.9	474.1	428.8	380.0	334.7	298.7	288.5	284.7
12.5°	560.0	556.4	540.9	510.6	443.2	361.1	286.4	230.2	195.3	186.5	184.1
15°	587.2	582.1	560.5	501.8	388.2	274.4	196.7	163.4	150.9	149.2	147.6
17.5°	616.1	607.7	578.0	470.5	314.0	195.1	151.9	142.4	136.9	135.3	134.5
20°	642.6	631.7	588.3	423.0	234.5	151.9	136.1	129.9	124.9	123.0	121.9
22.5°	669.0	653.5	588.3	358.4	175.9	134.8	124.9	119.2	113.5	111.0	109.7
25°	696.6	675.9	578.0	286.4	141.6	123.5	114.3	108.0	103.1	100.1	99.0
27.5°	723.3	694.7	554.2	218.2	126.0	113.8	104.4	98.5	93.8	91.6	91.6
30°	748.7	713.3	521.0	165.5	115.9	104.2	95.4	90.3	85.7	83.4	83.7
32.5°	783.1	736.7	485.5	135.8	107.2	95.2	87.3	82.4	78.3	76.7	76.7
35°	830.8	771.3	455.0	133.4	99.8	87.8	79.9	75.2	71.2	69.8	69.8
37.5°	898.4	827.3	438.9	149.8	93.8	81.3	73.9	69.0	65.2	64.1	63.9
40°	982.0	903.1	447.6	166.2	89.7	75.5	68.5	63.6	60.3	58.9	58.6
42.5°	1081.0	996.6	495.9	178.7	87.0	70.6	63.2	57.8	55.7	55.1	55.1
45°	1194.6	1099.5	569.8	192.0	82.6	66.0	58.1	54.0	52.4	52.1	51.9
47.5°	1324.0	1212.4	655.4	208.7	78.3	61.6	54.0	51.2	49.9	49.4	49.4
50°	1452.1	1326.1	743.5	217.9	74.7	57.5	50.7	48.6	47.5	47.2	47.2
52.5°	1586.3	1443.1	814.7	209.2	71.8	54.3	48.0	46.3	45.3	45.0	45.0
55°	1714.2	1537.8	827.0	177.5	65.7	51.0	45.0	44.2	42.8	42.8	42.5
57.5°	1824.4	1585.3	740.3	130.4	59.8	46.1	42.0	41.2	40.1	39.9	39.6
60°	1925.7	1571.6	571.4	87.8	53.2	41.2	38.2	37.6	36.6	35.2	35.0
62.5°	1982.7	1511.6	390.8	57.3	46.6	36.0	33.8	33.5	31.1	28.4	27.8
65°	2004.2	1388.4	243.8	41.7	39.1	30.9	29.2	28.6	25.1	22.1	21.8
67.5°	1985.3	1185.4	123.0	33.0	30.9	25.6	24.0	24.0	21.5	18.9	18.6
70°	1910.1	888.7	51.9	26.4	23.8	19.7	19.7	20.7	18.2	15.3	15.0
72.5°	1746.7	597.9	27.6	20.2	17.7	13.9	16.1	16.9	14.5	11.5	11.5
75°	1388.6	364.7	19.1	15.0	11.2	9.8	12.3	12.8	9.8	7.7	7.4
77.5°	949.8	209.5	12.8	9.5	7.1	5.7	8.4	7.9	5.2	3.6	3.8
80°	417.1	87.3	7.4	4.4	2.8	2.2	3.0	2.2	1.6	1.1	1.1
82.5°	48.8	20.5	2.8	1.6	1.1	0.5	0.3	0.0	0.0	0.0	0.0
85°	10.0	2.5	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.5	0.3	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

(END OF REPORT)