

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: P964745

Luminaire Tested: **NAV-SB3C-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20878.2 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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



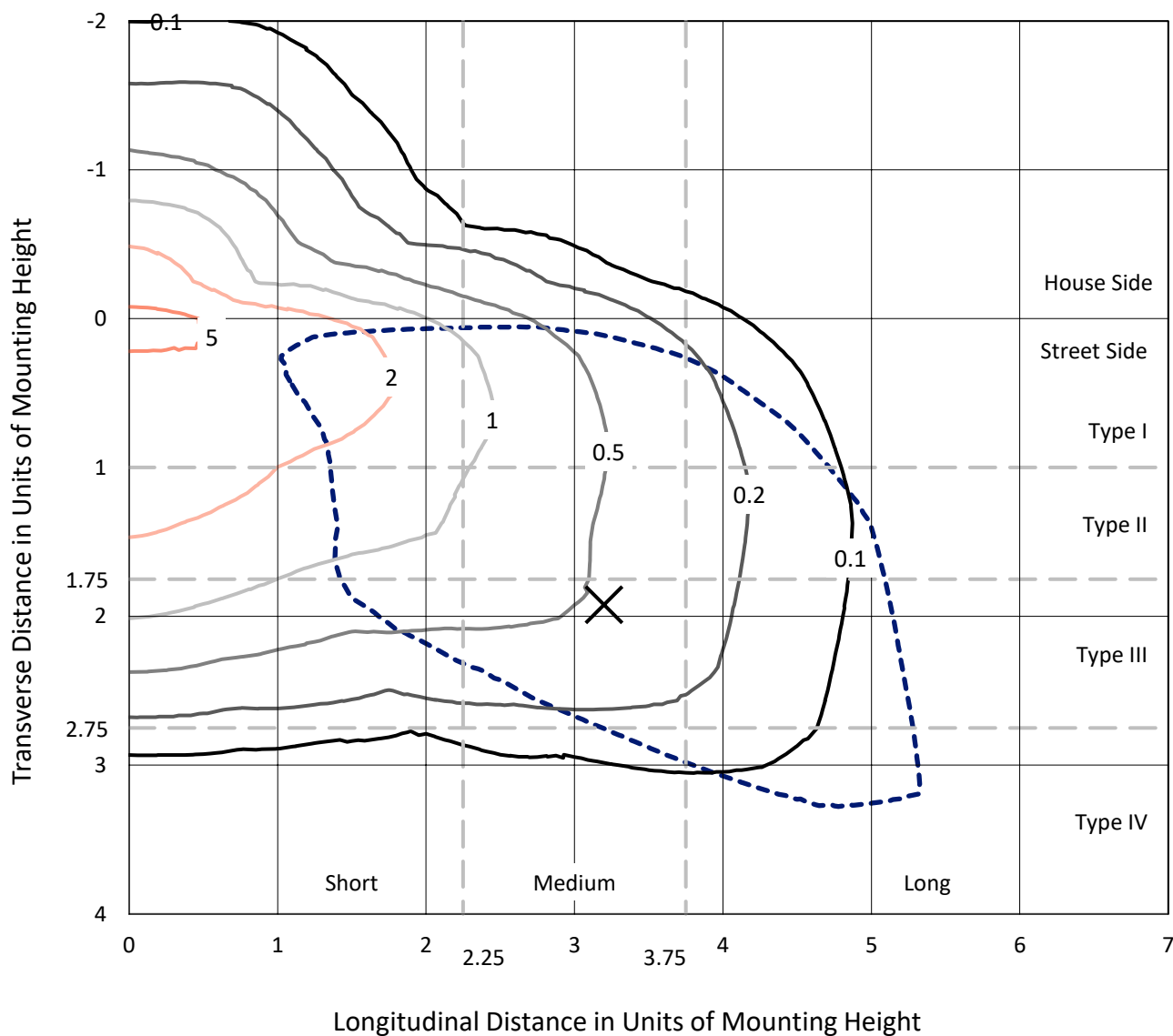
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

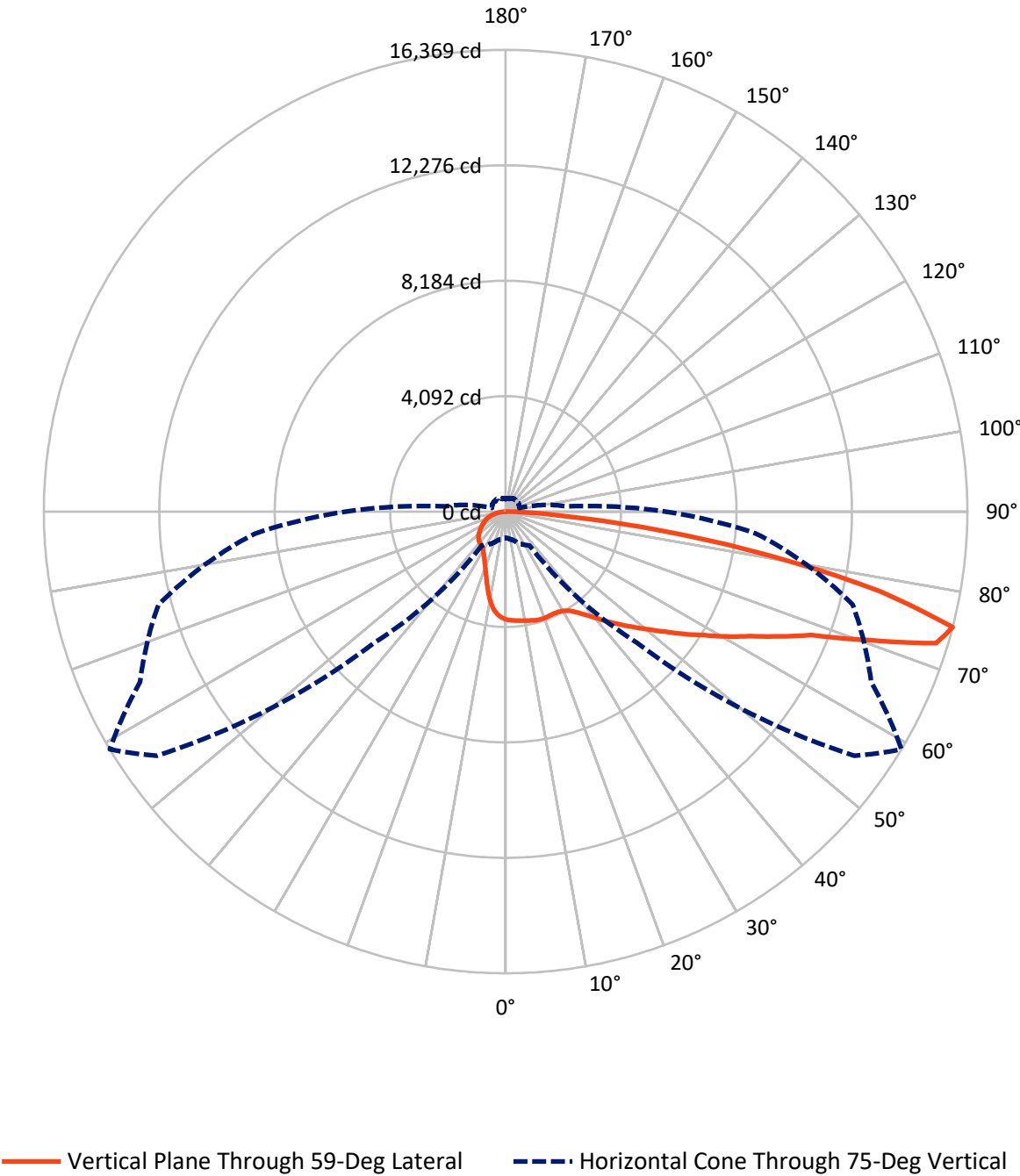
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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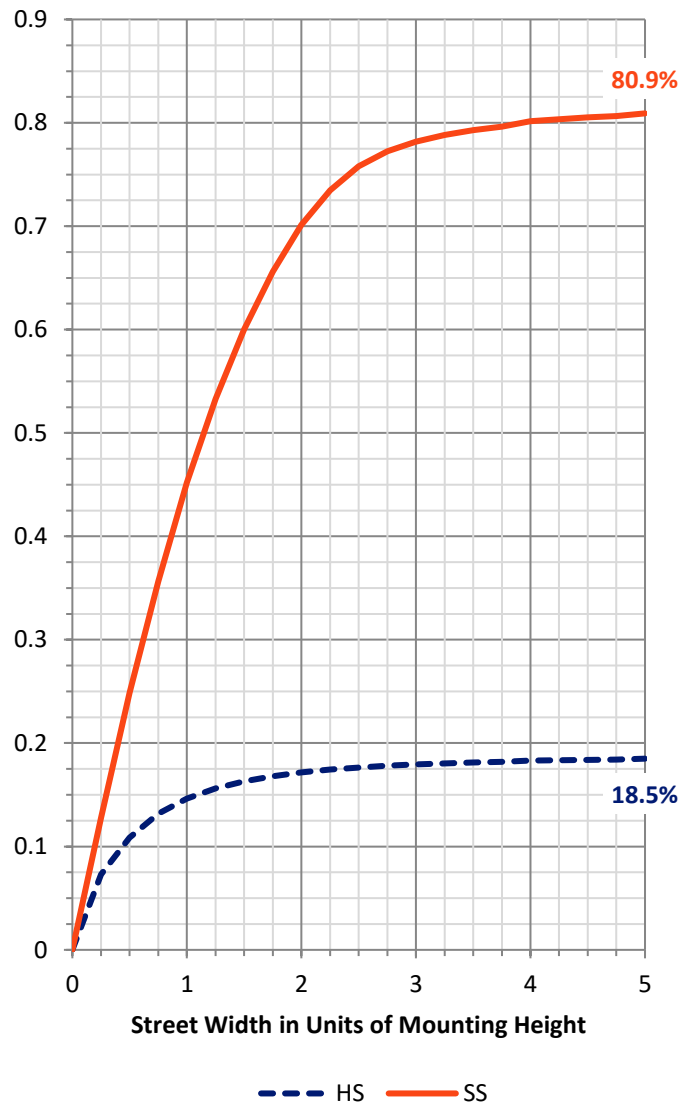
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3915.8	0.0	3915.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16962.4	0.0	16962.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	20878.2	0.0	20878.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.6	1.6
10°-20°	878.3	4.2
20°-30°	1334.1	6.4
30°-40°	1983.1	9.5
40°-50°	2949.1	14.1
50°-60°	4003.1	19.2
60°-70°	4887.2	23.4
70°-80°	3835.4	18.4
80°-90°	664.4	3.2
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°	20878.2	100.0
0°-180°	20878.2	100.0

Coefficient of Utilization



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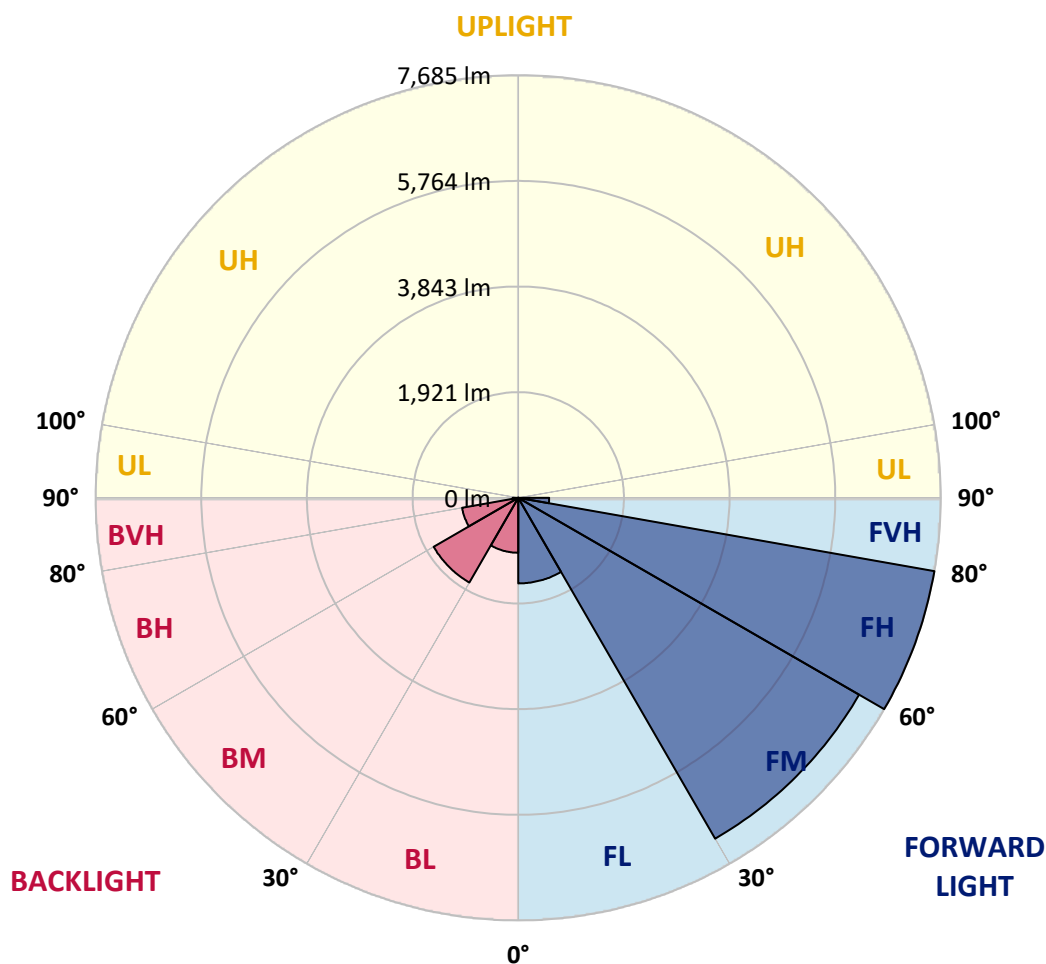
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1556.7	7.5			
FM	(30°-60°)	7157.9	34.3			
FH	(60°-80°)	7685.1	36.8			G4/12000
FVH	(80°-90°)	562.7	2.7			G4/750
BL	(0°-30°)	999.3	4.8	B2/1000		
BM	(30°-60°)	1777.4	8.5	B2/2500		
BH	(60°-80°)	1037.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	101.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2
2.5°	3864.8	3851.2	3864.8	3859.1	3856.9	3852.4	3853.5	3861.4	3856.9	3862.5	3843.3
5°	3838.9	3831.0	3844.5	3841.2	3855.7	3858.0	3872.6	3881.6	3887.2	3888.3	3873.7
7.5°	3796.2	3788.4	3807.5	3823.1	3854.6	3863.6	3894.0	3908.5	3916.4	3929.8	3908.5
10°	3640.1	3636.7	3683.8	3743.4	3817.5	3863.6	3909.7	3934.4	3946.8	3982.6	3957.9
12.5°	3363.8	3368.3	3430.1	3544.7	3692.9	3841.2	3927.6	3963.6	3982.6	4027.5	4016.4
15°	3099.9	3098.8	3166.1	3288.5	3496.4	3742.3	3936.6	3998.4	4030.9	4097.2	4088.2
17.5°	2947.1	2942.7	2989.8	3083.0	3276.2	3590.7	3914.2	4017.5	4087.1	4170.2	4162.3
20°	2919.0	2910.1	2934.8	2980.8	3117.8	3424.4	3855.7	4017.5	4132.0	4239.8	4235.4
22.5°	3021.3	3006.6	2996.5	2991.0	3051.5	3287.4	3789.4	4004.0	4198.3	4339.8	4332.0
25°	3226.8	3204.4	3152.7	3102.1	3084.1	3225.7	3731.1	4000.6	4297.1	4474.6	4445.4
27.5°	3559.2	3531.1	3426.7	3305.4	3196.5	3257.1	3705.3	4020.9	4406.1	4617.2	4558.8
30°	3971.5	3941.1	3809.7	3623.3	3427.8	3373.9	3737.8	4080.3	4545.4	4807.0	4692.4
32.5°	4341.0	4307.3	4194.9	4005.1	3741.1	3576.1	3841.2	4193.8	4764.4	5071.0	4893.6
35°	4668.9	4629.6	4528.4	4353.3	4125.3	3860.3	4027.5	4394.9	5075.5	5500.0	5166.4
37.5°	4990.1	4944.1	4834.0	4648.7	4489.2	4238.7	4284.8	4653.2	5488.8	6021.2	5528.1
40°	5349.5	5283.3	5149.6	4966.5	4811.6	4682.4	4622.9	4969.9	5908.8	6602.9	5979.6
42.5°	5697.7	5634.8	5475.3	5319.2	5124.9	5087.8	5014.8	5340.6	6368.2	7242.0	6437.8
45°	6072.8	5997.6	5804.4	5606.7	5484.3	5357.4	5394.5	5711.2	6818.6	7893.4	6918.5
47.5°	6424.4	6340.1	6112.1	5892.0	5824.6	5584.2	5742.6	6118.8	7286.9	8553.8	7394.8
50°	6614.1	6531.1	6341.3	6142.4	6089.6	5863.9	6120.0	6567.0	7777.7	9212.0	7851.9
52.5°	6772.5	6682.7	6434.4	6324.4	6308.7	6168.2	6585.0	7079.2	8268.6	9793.8	8293.3
55°	6941.0	6841.1	6524.3	6425.5	6497.4	6509.7	7136.5	7659.8	8787.4	10361.0	8709.9
57.5°	7135.3	7008.4	6610.8	6510.8	6681.6	6909.5	7769.9	8261.8	9297.4	10886.6	9080.6
60°	7318.4	7190.4	6777.0	6646.7	6880.3	7373.4	8496.5	8990.7	9874.6	11354.9	9431.0
62.5°	7354.3	7248.7	6909.5	6908.4	7149.9	7914.7	9356.9	9726.4	10378.9	11817.6	9745.5
65°	6732.1	6665.9	6464.8	6898.4	7536.3	8694.3	10314.9	10667.6	11020.3	12222.0	10021.7
67.5°	5123.8	5132.8	5118.1	5954.8	7224.0	9814.0	11702.0	11675.1	11812.1	12675.8	10339.6
70°	2342.8	2395.6	2739.3	4110.7	5787.6	9943.1	13995.5	13646.1	12806.0	13263.2	10614.8
72.5°	1265.8	1306.3	1446.6	1991.4	3479.5	8840.2	15709.4	15957.6	14128.0	13658.5	10312.6
75°	928.9	951.3	1049.0	1265.8	1461.2	6570.4	15095.0	16368.6	14293.1	12736.4	8905.4
77.5°	695.3	705.3	785.0	1003.0	748.0	3463.8	12061.4	13556.3	12235.5	10464.3	6578.2
80°	504.3	515.5	575.0	752.5	524.5	1266.9	8282.0	9515.3	8379.8	6670.3	3278.5
82.5°	348.2	352.7	378.5	512.2	366.1	491.9	4699.2	5579.8	4677.9	2340.6	885.0
85°	210.0	215.7	226.8	298.8	207.8	233.6	2028.4	2098.1	1398.3	559.3	275.2
87.5°	86.5	92.1	101.1	125.8	82.0	65.2	334.7	420.0	261.7	164.0	85.4
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°	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2	3832.2
2.5°	3837.8	3829.9	3808.6	3779.4	3752.4	3718.7	3704.1	3691.7	3680.6	3659.1	3649.1
5°	3861.4	3840.1	3782.8	3708.7	3624.4	3532.3	3442.5	3380.7	3327.9	3288.5	3256.0
7.5°	3897.3	3856.9	3752.4	3600.8	3407.6	3209.9	3031.3	2904.4	2809.0	2774.2	2713.5
10°	3934.4	3886.1	3704.1	3436.8	3103.2	2798.9	2561.9	2431.6	2355.2	2330.5	2292.3
12.5°	3978.1	3907.4	3628.9	3208.8	2762.9	2429.4	2222.7	2146.4	2107.0	2093.6	2096.9
15°	4042.2	3925.3	3515.4	2923.5	2438.4	2159.8	2026.1	1973.3	1953.1	1952.0	1956.5
17.5°	4090.5	3928.7	3339.1	2618.1	2189.0	1996.9	1886.9	1866.6	1880.2	1900.4	1908.2
20°	4144.4	3898.4	3107.7	2339.5	2013.8	1854.3	1808.3	1821.7	1854.3	1883.5	1893.6
22.5°	4182.6	3843.3	2828.1	2122.8	1862.1	1772.3	1770.1	1798.2	1816.1	1830.8	1838.5
25°	4216.2	3750.2	2531.5	1940.7	1737.5	1722.9	1747.6	1738.6	1726.3	1738.6	1746.5
27.5°	4240.9	3603.1	2266.5	1781.3	1649.9	1689.2	1674.6	1654.4	1653.2	1660.0	1671.3
30°	4233.1	3406.5	2048.6	1629.6	1588.1	1626.3	1591.5	1588.1	1584.8	1588.1	1600.4
32.5°	4233.1	3182.9	1881.3	1525.2	1548.8	1534.2	1530.8	1522.9	1509.5	1508.4	1522.9
35°	4256.7	2959.5	1737.5	1469.0	1516.3	1481.4	1483.7	1464.6	1436.5	1423.0	1436.5
37.5°	4305.0	2779.8	1594.9	1442.1	1459.0	1457.9	1448.8	1416.2	1366.8	1324.2	1338.8
40°	4421.8	2727.0	1497.1	1429.8	1432.0	1445.5	1421.9	1359.0	1246.7	1177.0	1186.0
42.5°	4604.9	2815.7	1475.8	1399.4	1414.0	1427.5	1381.5	1235.4	1155.7	1114.2	1114.2
45°	4837.4	2970.7	1521.8	1355.7	1371.3	1394.9	1257.9	1188.3	1152.3	1153.4	1159.1
47.5°	5131.7	3133.5	1607.2	1317.4	1309.5	1323.1	1175.9	1133.2	1083.8	1096.1	1127.6
50°	5472.0	3298.7	1688.1	1265.8	1241.1	1197.3	1123.1	1082.7	1019.8	990.6	998.5
52.5°	5840.3	3458.1	1720.7	1202.8	1167.0	1116.4	1087.2	1037.8	961.4	913.1	911.9
55°	6189.7	3603.1	1684.7	1127.6	1092.9	1053.5	1049.0	1018.6	936.7	869.3	869.3
57.5°	6519.8	3724.3	1594.9	1051.2	1017.5	993.9	1024.3	1009.7	906.4	819.9	815.4
60°	6799.4	3807.5	1464.6	973.7	950.2	937.8	983.9	979.4	863.7	767.1	763.7
62.5°	7021.9	3840.1	1320.8	899.6	894.0	871.6	927.7	927.7	809.7	715.4	712.1
65°	7195.9	3808.6	1174.9	826.7	837.8	804.2	859.2	852.5	752.5	669.4	664.9
67.5°	7349.9	3705.3	1013.1	754.7	780.5	737.9	787.3	771.6	689.6	623.3	618.9
70°	7418.3	3464.9	828.9	682.9	714.3	672.8	715.4	686.2	618.9	573.9	565.0
72.5°	6868.0	2879.7	652.5	607.6	634.6	600.9	638.0	604.2	542.4	522.2	505.4
75°	5682.0	2160.9	502.0	525.6	545.8	520.0	544.7	520.0	463.8	478.5	436.9
77.5°	4126.4	1459.0	384.1	439.1	448.1	434.7	456.0	427.9	377.4	374.0	357.1
80°	2051.9	854.7	301.0	347.1	343.7	334.7	359.4	345.9	303.3	321.2	317.9
82.5°	594.1	366.1	219.0	243.7	237.0	239.2	257.2	263.9	395.3	392.0	401.0
85°	186.4	143.8	131.4	135.9	129.1	132.5	151.6	301.0	278.5	162.9	176.3
87.5°	48.3	49.4	32.6	34.8	36.0	42.6	48.3	183.1	87.6	57.3	60.7
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)