

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: P232927

Luminaire Tested: **NFFLD-C55-D-UNV-66-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-236-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NFFLD-C55-D-UNV-66-7050
Description: LED FLOOD LIGHT LUMINAIRE
Light Source: (2) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20365.4 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.67 '
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

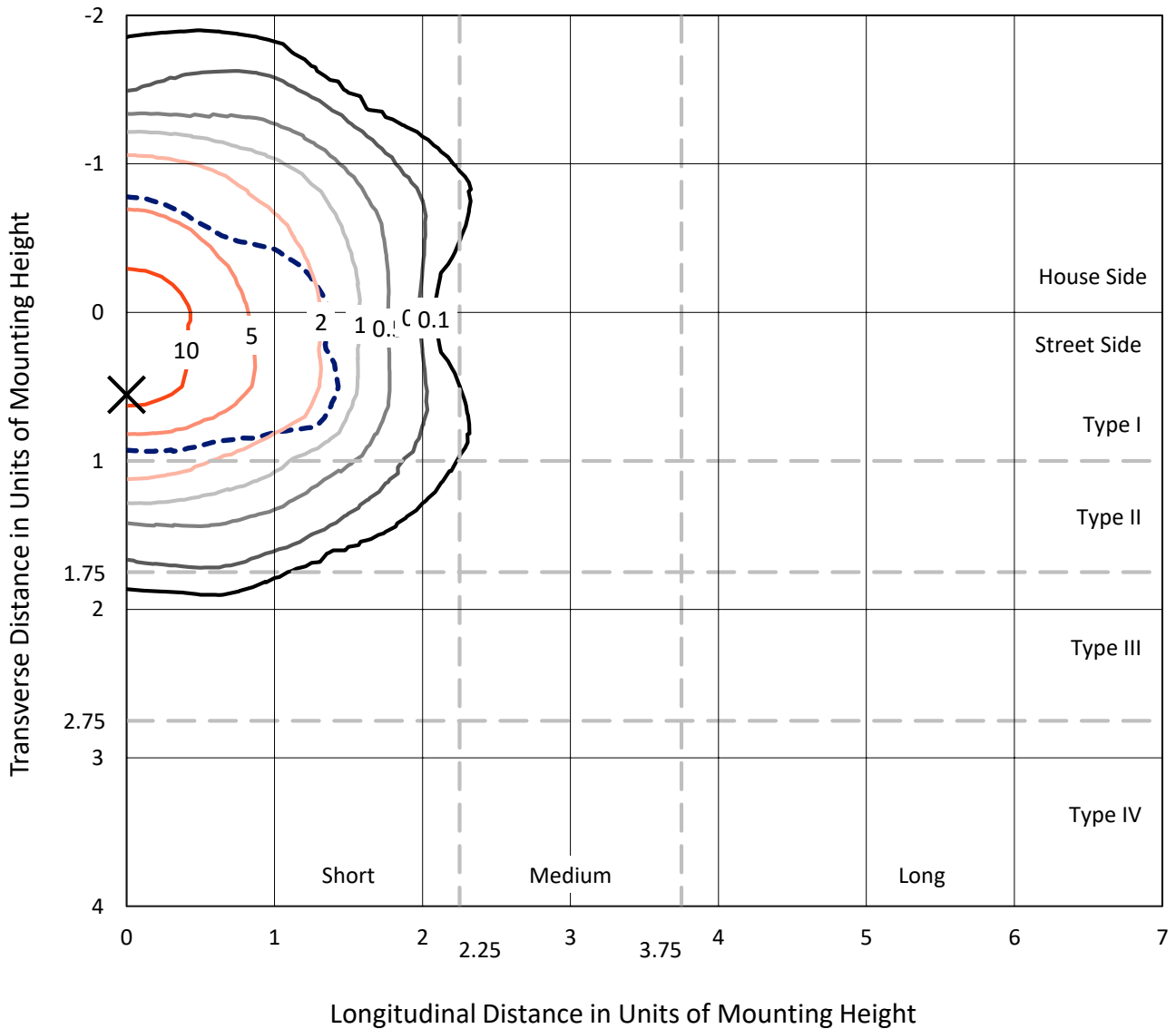
Input Watts (W): 145
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

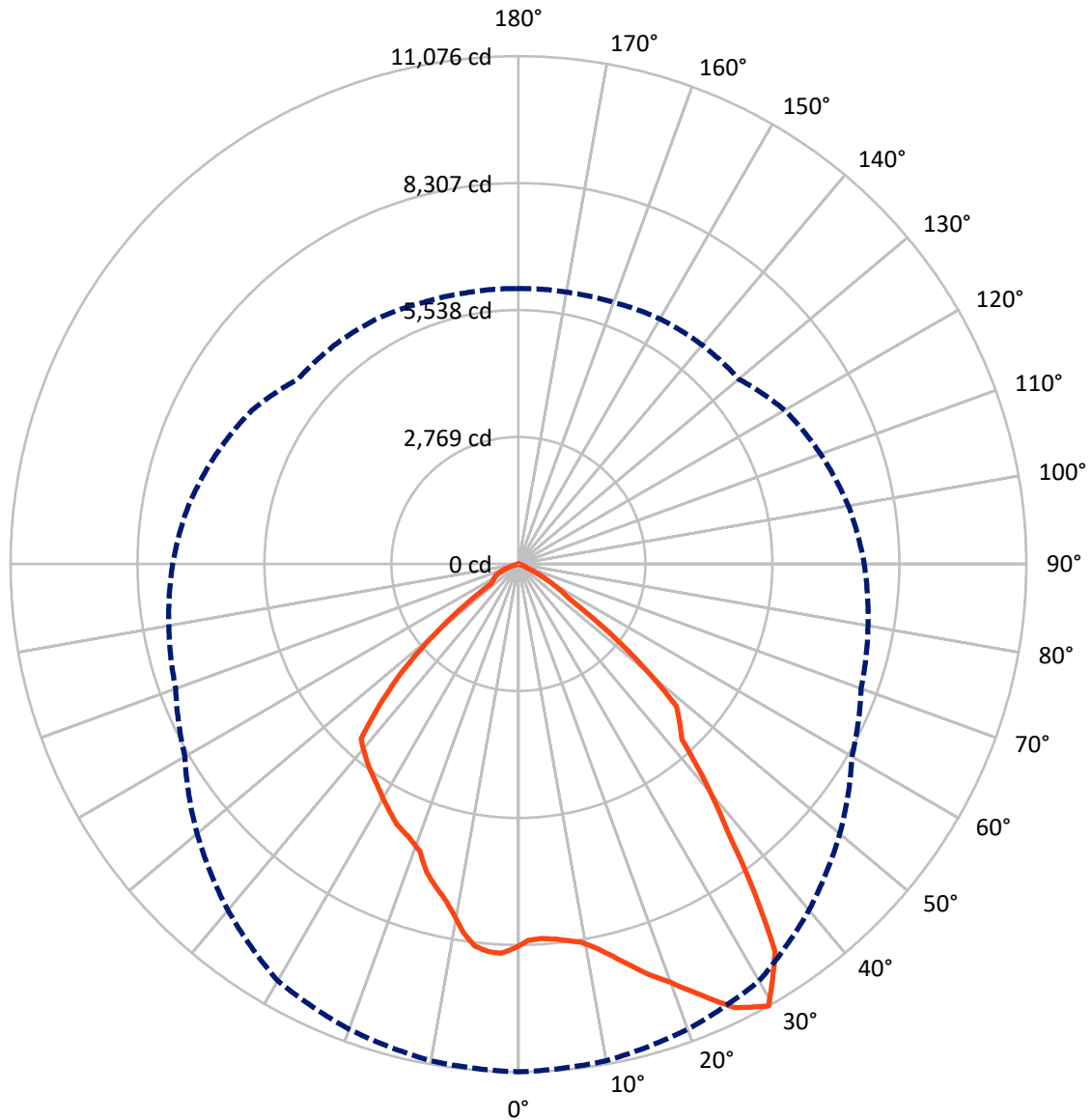
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 29-Deg Vertical

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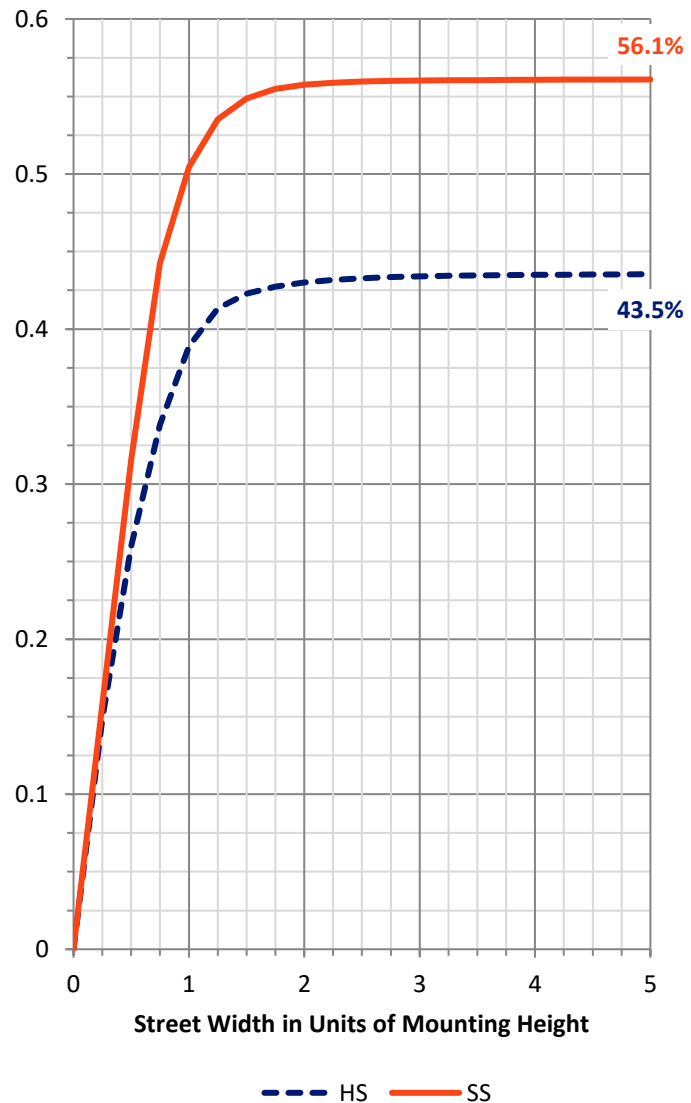
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8944.1	0.0	8944.1
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	11421.3	0.0	11421.3
	% Fixture	56.1	0.0	56.1
Total	Lumens	20365.4	0.0	20365.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.6	3.9
10°-20°	2304.4	11.3
20°-30°	3711.9	18.2
30°-40°	4596.0	22.6
40°-50°	4498.3	22.1
50°-60°	3135.0	15.4
60°-70°	1311.7	6.4
70°-80°	276.8	1.4
80°-90°	34.0	0.2
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°	20365.4	100.0
0°-180°	20365.4	100.0



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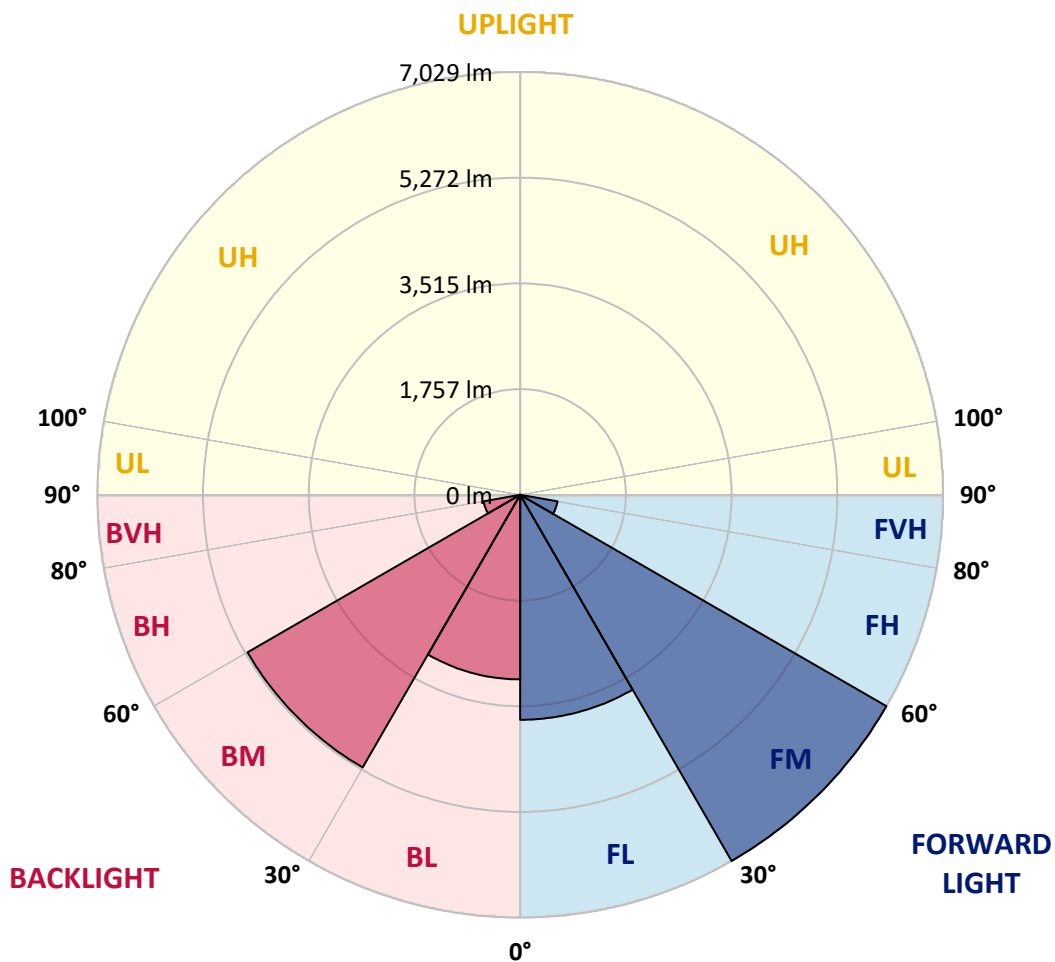
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3739.9	18.4			
FM	(30°-60°)	7029.3	34.5			
FH	(60°-80°)	630.2	3.1			G0/660
FVH	(80°-90°)	12.6	0.1			G1/100
BL	(0°-30°)	3067.4	15.1	B4/5000		
BM	(30°-60°)	5234.0	25.7	B4/8500		
BH	(60°-80°)	617.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	17.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9
1°	8209.0	8212.7	8218.6	8226.4	8235.8	8246.3	8257.8	8269.9	8282.4	8294.9	8308.4
3°	8180.8	8187.8	8195.6	8199.1	8204.7	8212.4	8221.9	8232.7	8270.2	8310.0	8348.2
5°	8217.1	8211.1	8207.6	8203.5	8198.9	8196.4	8208.7	8228.5	8255.3	8318.1	8382.0
7°	8282.8	8277.6	8259.7	8239.5	8216.7	8200.6	8192.9	8206.5	8243.1	8324.2	8390.5
9°	8364.6	8360.8	8332.8	8299.3	8250.3	8207.8	8174.3	8173.2	8228.2	8320.1	8377.1
11°	8549.4	8513.7	8463.5	8387.1	8292.6	8223.7	8167.2	8165.1	8220.5	8318.1	8348.8
13°	8794.9	8749.3	8673.8	8530.1	8378.3	8254.0	8183.5	8162.2	8225.8	8302.0	8317.6
15°	9073.7	9016.0	8926.1	8730.7	8504.0	8312.6	8206.8	8180.4	8250.1	8316.1	8266.6
17°	9372.7	9331.8	9190.0	8946.1	8674.6	8408.6	8229.3	8209.8	8281.4	8360.6	8203.1
19.5°	9709.0	9654.5	9501.4	9245.3	8899.9	8575.6	8282.7	8221.5	8276.4	8436.3	8092.9
22.5°	10212.1	10111.3	9882.6	9563.5	9199.0	8752.7	8343.8	8156.4	8146.3	8105.0	7858.4
25.5°	10762.6	10634.3	10356.6	9943.0	9501.4	8985.8	8389.2	8026.9	7982.2	7869.6	7618.8
29°	11075.7	11001.3	10796.4	10498.0	9856.1	9148.8	8400.0	7954.2	7741.3	7541.4	7308.0
33°	10142.4	10251.1	10426.0	10690.3	10142.9	9226.3	8429.0	7958.6	7457.5	7054.5	6842.7
37.5°	7415.1	7679.9	8366.9	9411.6	9822.3	9392.0	8479.2	7991.2	7232.6	6804.0	6479.6
42.5°	5223.2	5439.7	5928.6	6656.0	7858.3	8875.2	8613.8	7962.2	6972.8	6622.2	6265.5
47.5°	4637.3	4641.1	4715.5	4768.3	5445.8	7124.3	8501.7	7784.8	6527.0	6232.3	6022.5
55°	1368.7	1676.9	2202.0	2752.6	3534.3	3993.8	6154.9	6195.8	5165.3	5335.3	5029.4
65°	213.1	237.3	482.7	505.0	715.4	1137.6	1432.0	1633.2	997.3	319.2	1003.7
75°	28.3	22.3	64.3	55.9	48.5	35.3	81.4	90.4	102.3	159.6	157.1
85°	0.0	22.1	29.2	28.1	20.1	21.4	22.7	22.8	35.9	24.2	31.9
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):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9
1°	8321.4	8333.6	8344.7	8354.4	8362.4	8368.5	8372.3	8373.7	8372.3	8368.5	8362.4
3°	8384.4	8411.6	8436.3	8457.8	8475.4	8488.4	8497.0	8499.9	8497.0	8488.4	8475.4
5°	8422.4	8460.9	8487.5	8483.7	8478.6	8476.9	8478.3	8475.7	8478.3	8476.9	8478.6
7°	8440.9	8457.1	8448.6	8427.6	8391.2	8373.2	8373.0	8385.8	8373.0	8373.2	8391.2
9°	8424.9	8390.4	8340.4	8291.1	8213.9	8150.9	8120.9	8127.2	8120.9	8150.9	8213.9
11°	8336.4	8261.6	8162.1	8040.5	7947.0	7837.1	7759.6	7758.5	7759.6	7837.1	7947.0
13°	8239.2	8088.7	7906.4	7759.9	7645.6	7558.3	7477.4	7463.6	7477.4	7558.3	7645.6
15°	8122.0	7895.1	7687.9	7537.6	7418.3	7334.2	7258.4	7250.5	7258.4	7334.2	7418.3
17°	7977.5	7711.2	7523.7	7372.7	7243.0	7120.3	7023.9	7021.2	7023.9	7120.3	7243.0
19.5°	7816.9	7557.7	7365.6	7172.6	6978.0	6778.4	6638.8	6612.1	6638.8	6778.4	6978.0
22.5°	7620.8	7396.2	7144.9	6845.2	6557.6	6486.1	6427.0	6411.1	6427.0	6486.1	6557.6
25.5°	7371.1	7121.5	6816.7	6478.2	6388.3	6319.6	6271.9	6262.6	6271.9	6319.6	6388.3
29°	7011.4	6707.9	6273.9	6234.3	6173.3	6069.9	6019.9	6008.0	6019.9	6069.9	6173.3
33°	6562.6	6183.9	5912.5	5894.6	5820.4	5741.9	5737.0	5723.2	5737.0	5741.9	5820.4
37.5°	6156.0	5759.6	5566.1	5452.5	5409.8	5437.1	5450.8	5456.5	5450.8	5437.1	5409.8
42.5°	5807.1	5454.0	5145.4	5020.4	5046.4	5069.1	5084.6	5129.3	5084.6	5069.1	5046.4
47.5°	5542.5	5175.7	4701.3	4616.7	4462.5	3948.2	3605.8	3519.2	3605.8	3948.2	4462.5
55°	4710.2	4592.8	3960.2	3044.8	2096.3	1358.3	927.9	717.2	927.9	1358.3	2096.3
65°	1638.9	1219.6	752.6	570.0	674.1	579.1	520.8	512.1	520.8	579.1	674.1
75°	180.3	138.7	134.1	129.5	159.5	114.1	92.0	65.7	92.0	114.1	159.5
85°	24.3	24.8	27.6	30.5	26.3	23.6	15.1	0.0	15.1	23.6	26.3
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):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9	8290.9
1°	8354.4	8344.7	8333.6	8321.4	8308.4	8294.9	8282.4	8269.9	8257.8	8246.3	8235.8
3°	8457.8	8436.3	8411.6	8384.4	8348.2	8310.0	8270.2	8232.7	8221.9	8212.4	8204.7
5°	8483.7	8487.5	8460.9	8422.4	8382.0	8318.1	8255.3	8228.5	8208.7	8196.4	8198.9
7°	8427.6	8448.6	8457.1	8440.9	8390.5	8324.2	8243.1	8206.5	8192.9	8200.6	8216.7
9°	8291.1	8340.4	8390.4	8424.9	8377.1	8320.1	8228.2	8173.2	8174.3	8207.8	8250.3
11°	8040.5	8162.1	8261.6	8336.4	8348.8	8318.1	8220.5	8165.1	8167.2	8223.7	8292.6
13°	7759.9	7906.4	8088.7	8239.2	8317.6	8302.0	8225.8	8162.2	8183.5	8254.0	8378.3
15°	7537.6	7687.9	7895.1	8122.0	8266.6	8316.1	8250.1	8180.4	8206.8	8312.6	8504.0
17°	7372.7	7523.7	7711.2	7977.5	8203.1	8360.6	8281.4	8209.8	8229.3	8408.6	8674.6
19.5°	7172.6	7365.6	7557.7	7816.9	8092.9	8436.3	8276.4	8221.5	8282.7	8575.6	8899.9
22.5°	6845.2	7144.9	7396.2	7620.8	7858.4	8105.0	8146.3	8156.4	8343.8	8752.7	9199.0
25.5°	6478.2	6816.7	7121.5	7371.1	7618.8	7869.6	7982.2	8026.9	8389.2	8985.8	9501.4
29°	6234.3	6273.9	6707.9	7011.4	7308.0	7541.4	7741.3	7954.2	8400.0	9148.8	9856.1
33°	5894.6	5912.5	6183.9	6562.6	6842.7	7054.5	7457.5	7958.6	8429.0	9226.3	10142.9
37.5°	5452.5	5566.1	5759.6	6156.0	6479.6	6804.0	7232.6	7991.2	8479.2	9392.0	9822.3
42.5°	5020.4	5145.4	5454.0	5807.1	6265.5	6622.2	6972.8	7962.2	8613.8	8875.2	7858.3
47.5°	4616.7	4701.3	5175.7	5542.5	6022.5	6232.3	6527.0	7784.8	8501.7	7124.3	5445.8
55°	3044.8	3960.2	4592.8	4710.2	5029.4	5335.3	5165.3	6195.8	6154.9	3993.8	3534.3
65°	570.0	752.6	1219.6	1638.9	1003.7	319.2	997.3	1633.2	1432.0	1137.6	715.4
75°	129.5	134.1	138.7	180.3	157.1	159.6	102.3	90.4	81.4	35.3	48.5
85°	30.5	27.6	24.8	24.3	31.9	24.2	35.9	22.8	22.7	21.4	20.1
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):

	330°	340°	350°	360°
0°	8290.9	8290.9	8290.9	8290.9
1°	8226.4	8218.6	8212.7	8209.0
3°	8199.1	8195.6	8187.8	8180.8
5°	8203.5	8207.6	8211.1	8217.1
7°	8239.5	8259.7	8277.6	8282.8
9°	8299.3	8332.8	8360.8	8364.6
11°	8387.1	8463.5	8513.7	8549.4
13°	8530.1	8673.8	8749.3	8794.9
15°	8730.7	8926.1	9016.0	9073.7
17°	8946.1	9190.0	9331.8	9372.7
19.5°	9245.3	9501.4	9654.5	9709.0
22.5°	9563.5	9882.6	10111.3	10212.1
25.5°	9943.0	10356.6	10634.3	10762.6
29°	10498.0	10796.4	11001.3	11075.7
33°	10690.3	10426.0	10251.1	10142.4
37.5°	9411.6	8366.9	7679.9	7415.1
42.5°	6656.0	5928.6	5439.7	5223.2
47.5°	4768.3	4715.5	4641.1	4637.3
55°	2752.6	2202.0	1676.9	1368.7
65°	505.0	482.7	237.3	213.1
75°	55.9	64.3	22.3	28.3
85°	28.1	29.2	22.1	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)