

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: McGRAW-EDISON

Report Number: P821302

Luminaire Tested: **TT-D3-740-24VDC-RW-UPL**

Issue Date: 10/29/2020



Test Information

Test Method: LM-79-08
Report Number: P821302
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (G2-2002-677-1) AND
Test Lab: INNOVATION CENTER
Issue Date: 10/29/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-D3-740-24VDC-RW-UPL
Description: TOPTIER LED PARKING GARAGE LUMINAIRE WITH UPLIGHT
4000K, 70 CRI LEDS AND RECTANGULAR DISTRIBUTION
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

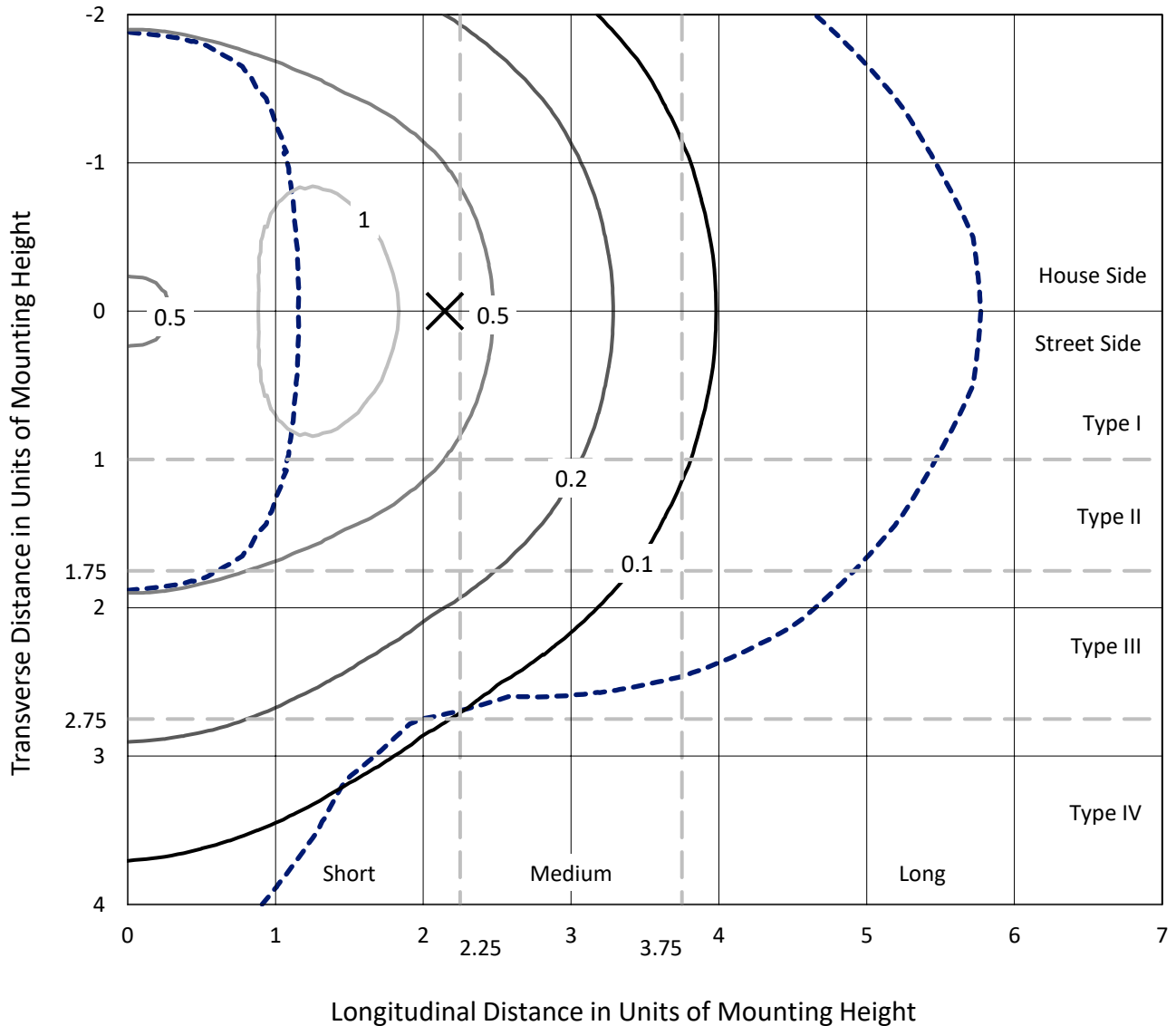
Lumens per Lamp: N/A
Luminaire Lumens: 5972.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.12' x H: 0.1')
IES Classification: Type IV - Short
BUG Rating: B3 - U4 - G3

Input Watts (W): 46
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

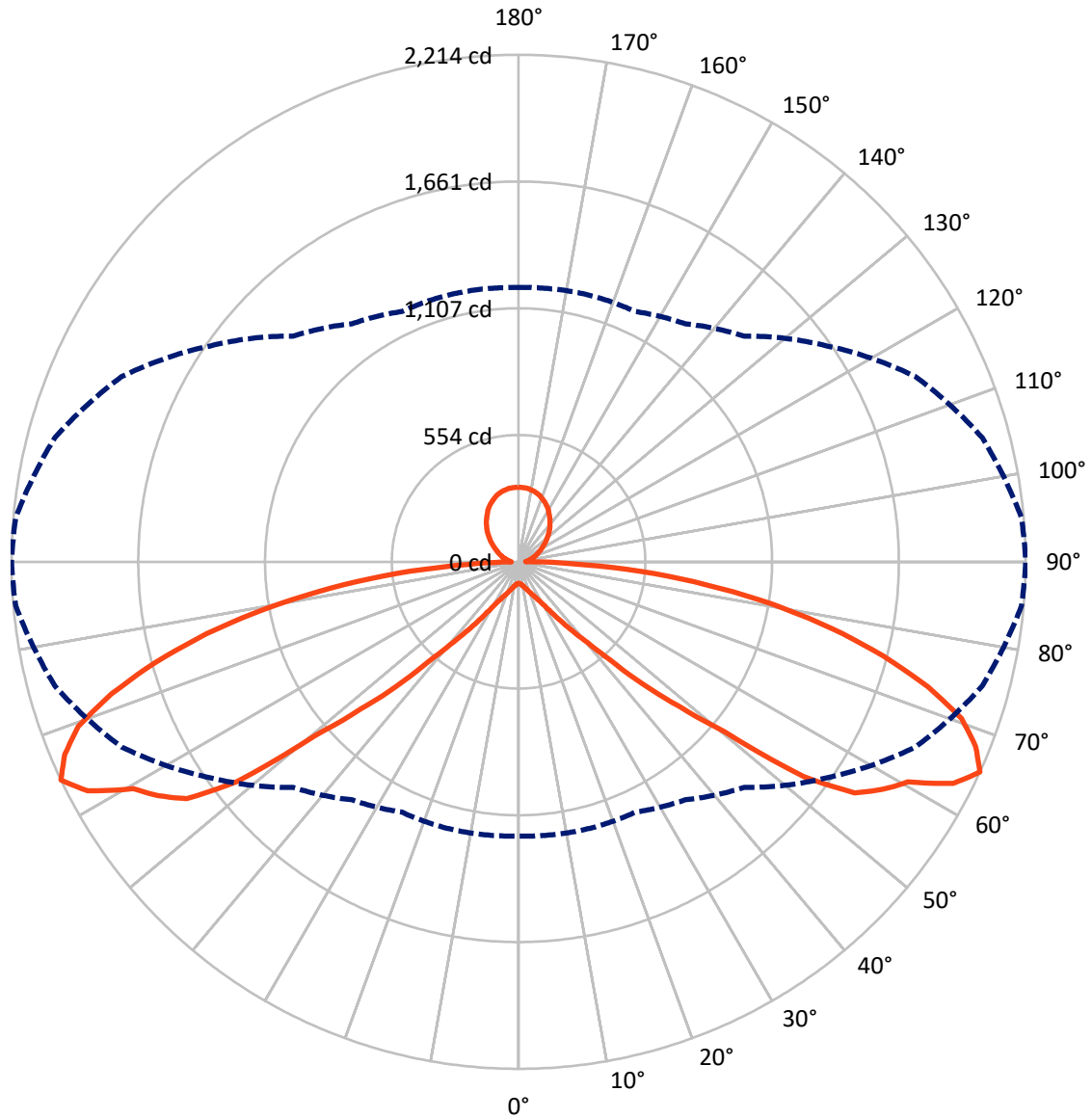
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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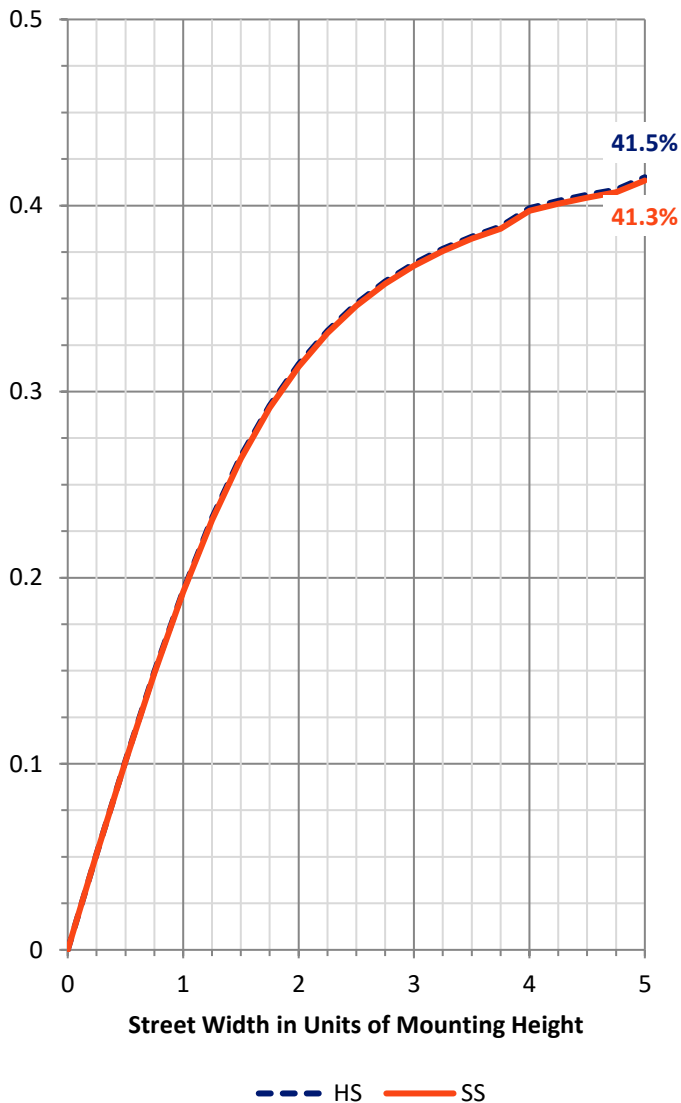
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2543.6	442.7	2986.4
	% Fixture	42.6	7.4	50.0
Street Side	Lumens	2543.6	442.7	2986.4
	% Fixture	42.6	7.4	50.0
Total	Lumens	5087.3	885.5	5972.7
	% Fixture	85.2	14.8	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.2
10°-20°	36.3	0.6
20°-30°	83.8	1.4
30°-40°	189.4	3.2
40°-50°	461.3	7.7
50°-60°	1037.4	17.4
60°-70°	1516.1	25.4
70°-80°	1321.1	22.1
80°-90°	432.2	7.2
90°-100°	45.4	0.8
100°-110°	70.3	1.2
110°-120°	97.7	1.6
120°-130°	126.6	2.1
130°-140°	147.6	2.5
140°-150°	149.5	2.5
150°-160°	129.8	2.2
160°-170°	87.7	1.5
170°-180°	30.8	0.5
0°-90°	5087.3	85.2
0°-180°	5972.7	100.0

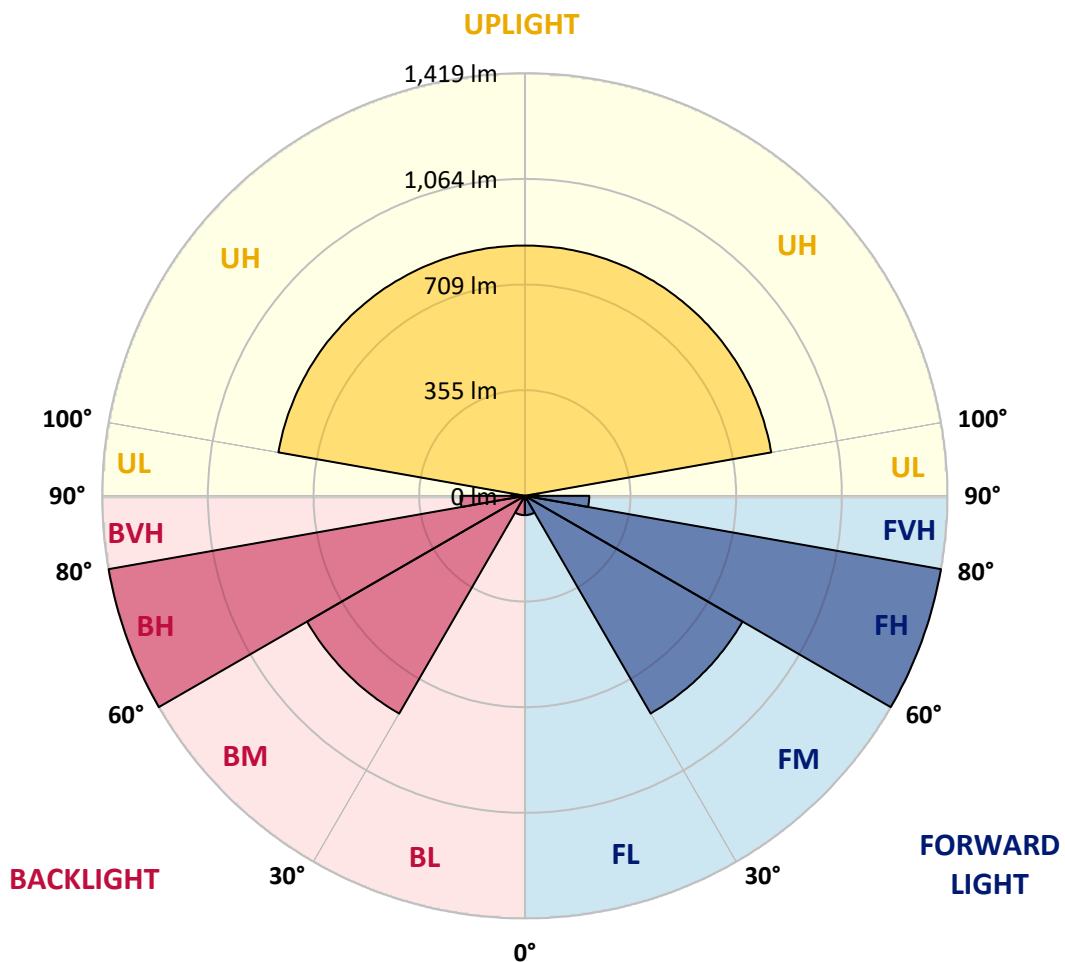


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	64.9	1.1			
FM (30°-60°)	844.1	14.1			
FH (60°-80°)	1418.6	23.8			G1/1800
FVH (80°-90°)	216.1	3.6			G2/225
BL (0°-30°)	64.9	1.1	B0/110		
BM (30°-60°)	844.1	14.1	B1/1000		
BH (60°-80°)	1418.6	23.8	B3/2500		G3/2500
BVH (80°-90°)	216.1	3.6			G2/225
UL (90°-100°)	45.4	0.8		U2/50	
UH (100°-180°)	840.1	14.1		U4/1000	

BUG Rating: B3-U4-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
2.5°	94.1	94.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
5°	97.7	97.7	97.7	97.7	98.9	98.9	97.7	97.7	97.7	97.7	97.7
7.5°	103.7	102.5	103.7	103.7	103.7	102.5	102.5	102.5	101.3	101.3	101.3
10°	109.8	109.8	111.0	109.8	109.8	108.5	108.5	108.5	107.3	107.3	107.3
12.5°	118.2	118.2	118.2	118.2	117.0	117.0	115.8	114.6	113.4	113.4	113.4
15°	129.0	127.8	127.8	126.6	125.4	124.2	123.0	123.0	121.8	121.8	121.8
17.5°	139.9	139.9	138.7	137.5	135.1	133.9	133.9	132.7	131.5	131.5	131.5
20°	153.2	153.2	152.0	149.6	147.1	145.9	144.7	144.7	143.5	143.5	143.5
22.5°	168.8	167.6	165.2	162.8	160.4	159.2	158.0	156.8	156.8	156.8	156.8
25°	185.7	184.5	183.3	179.7	176.1	174.9	172.5	172.5	171.3	172.5	172.5
27.5°	206.2	205.0	202.6	199.0	194.2	191.8	190.6	190.6	191.8	191.8	193.0
30°	231.6	229.2	226.7	221.9	217.1	213.5	213.5	214.7	218.3	220.7	220.7
32.5°	261.7	260.5	256.9	252.1	243.6	241.2	243.6	250.9	255.7	259.3	261.7
35°	296.7	295.5	290.7	282.2	276.2	275.0	282.2	294.3	310.0	314.8	317.2
37.5°	335.3	336.5	330.5	320.8	314.8	317.2	331.7	354.6	370.3	381.1	383.5
40°	383.5	385.9	378.7	367.9	361.8	371.5	394.4	420.9	448.7	461.9	465.5
42.5°	440.2	443.8	434.2	423.3	419.7	435.4	468.0	511.4	560.8	576.5	582.5
45°	510.2	512.6	500.5	490.9	488.5	516.2	571.7	644.0	722.4	758.6	764.6
47.5°	593.4	592.2	581.3	569.3	571.7	611.5	694.7	792.4	875.6	931.1	943.1
50°	688.7	682.6	674.2	659.7	675.4	733.3	838.2	956.4	1096.3	1145.8	1167.5
52.5°	783.9	773.1	765.9	756.2	783.9	858.7	1005.9	1212.1	1423.2	1536.5	1559.4
55°	869.6	861.1	857.5	858.7	902.1	1009.5	1202.4	1466.6	1670.4	1764.5	1781.4
57.5°	954.0	949.2	945.6	952.8	1021.5	1161.4	1378.5	1625.8	1793.4	1863.4	1875.4
60°	1033.6	1038.4	1036.0	1057.7	1140.9	1282.0	1470.2	1713.8	1875.4	1939.4	1952.6
62.5°	1121.6	1125.3	1125.3	1149.4	1216.9	1341.1	1532.9	1817.5	2022.6	2116.6	2131.1
65°	1197.6	1200.0	1204.9	1206.1	1268.8	1393.0	1643.9	1912.8	2096.1	2204.7	2214.3
67.5°	1254.3	1256.7	1250.7	1244.7	1292.9	1405.1	1635.4	1900.8	2063.6	2145.6	2152.8
70°	1300.1	1289.3	1272.4	1242.2	1257.9	1342.4	1565.5	1804.3	1968.3	2041.9	2052.7
72.5°	1306.2	1296.5	1243.5	1175.9	1156.6	1230.2	1442.5	1657.1	1798.2	1868.2	1869.4
75°	1270.0	1244.7	1156.6	1055.3	1019.1	1089.1	1271.2	1466.6	1579.9	1639.0	1645.1
77.5°	1148.2	1124.1	1013.1	897.3	856.3	916.6	1071.0	1229.0	1337.5	1395.4	1399.0
80°	932.3	923.8	822.5	716.4	667.0	701.9	837.0	961.2	1049.3	1118.0	1124.1
82.5°	687.5	680.2	603.0	510.2	470.4	499.3	595.8	687.5	769.5	824.9	828.6
85°	429.4	414.9	366.6	301.5	275.0	294.3	358.2	419.7	493.3	536.7	539.1
87.5°	143.5	137.5	118.2	97.7	82.0	85.6	104.9	127.8	186.9	206.2	218.3
90°	32.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
92.5°	37.0	37.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
95°	42.0	42.0	42.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
97.5°	48.0	48.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
100°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
102.5°	60.0	59.0	60.0	60.0	59.0	59.0	59.0	60.0	60.0	60.0	59.0
105°	66.0	66.0	66.0	66.0	66.0	66.0	66.0	67.0	66.0	66.0	66.0
107.5°	73.0	73.0	73.0	74.0	74.0	74.0	74.0	74.0	73.0	74.0	73.0
110°	80.0	80.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	89.0	89.0	89.0	89.0	89.0	90.0	90.0	90.0	90.0	90.0	89.0
115°	97.0	97.0	98.0	98.0	98.0	98.0	99.0	99.0	98.0	98.0	98.0
117.5°	107.0	107.0	107.0	107.0	107.0	108.0	108.0	108.0	108.0	108.0	107.0
120°	117.0	117.0	117.0	118.0	118.0	118.0	119.0	119.0	118.0	118.0	118.0
122.5°	129.0	128.0	129.0	129.0	129.0	129.0	130.0	130.0	130.0	130.0	129.0
125°	140.0	140.0	141.0	141.0	141.0	141.0	142.0	142.0	142.0	142.0	141.0
127.5°	153.0	153.0	153.0	153.0	153.0	154.0	154.0	154.0	154.0	154.0	154.0
130°	165.0	165.0	166.0	166.0	166.0	166.0	167.0	167.0	167.0	167.0	166.0
132.5°	179.0	178.0	179.0	178.0	178.0	179.0	179.0	180.0	179.0	180.0	179.0
135°	191.0	191.0	191.0	191.0	191.0	192.0	192.0	192.0	192.0	192.0	192.0
137.5°	204.0	203.0	204.0	203.0	203.0	204.0	204.0	204.0	204.0	204.0	204.0
140°	216.0	215.0	216.0	215.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
142.5°	228.0	227.0	228.0	227.0	227.0	228.0	228.0	228.0	228.0	228.0	228.0
145°	239.0	239.0	239.0	238.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
147.5°	250.0	249.0	250.0	249.0	249.0	250.0	250.0	250.0	250.0	250.0	250.0
150°	263.0	262.0	263.0	262.0	263.0	263.0	263.0	263.0	263.0	263.0	263.0
152.5°	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0
155°	282.0	282.0	283.0	282.0	282.0	282.0	283.0	282.0	282.0	282.0	282.0
157.5°	290.0	290.0	290.0	290.0	290.0	290.0	291.0	291.0	290.0	291.0	290.0
160°	298.0	298.0	299.0	298.0	298.0	298.0	299.0	298.0	298.0	298.0	298.0
162.5°	306.0	305.0	306.0	305.0	306.0	306.0	306.0	306.0	306.0	306.0	306.0
165°	311.0	311.0	312.0	311.0	311.0	311.0	312.0	311.0	311.0	311.0	311.0
167.5°	316.0	315.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
170°	319.0	319.0	320.0	319.0	319.0	319.0	320.0	319.0	319.0	319.0	319.0
172.5°	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0
175°	324.0	324.0	325.0	324.0	325.0	324.0	325.0	324.0	324.0	324.0	324.0
177.5°	325.0	325.0	326.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0
180°	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0	326.0

(END OF REPORT)