

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: P269640

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL3-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39497.8 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

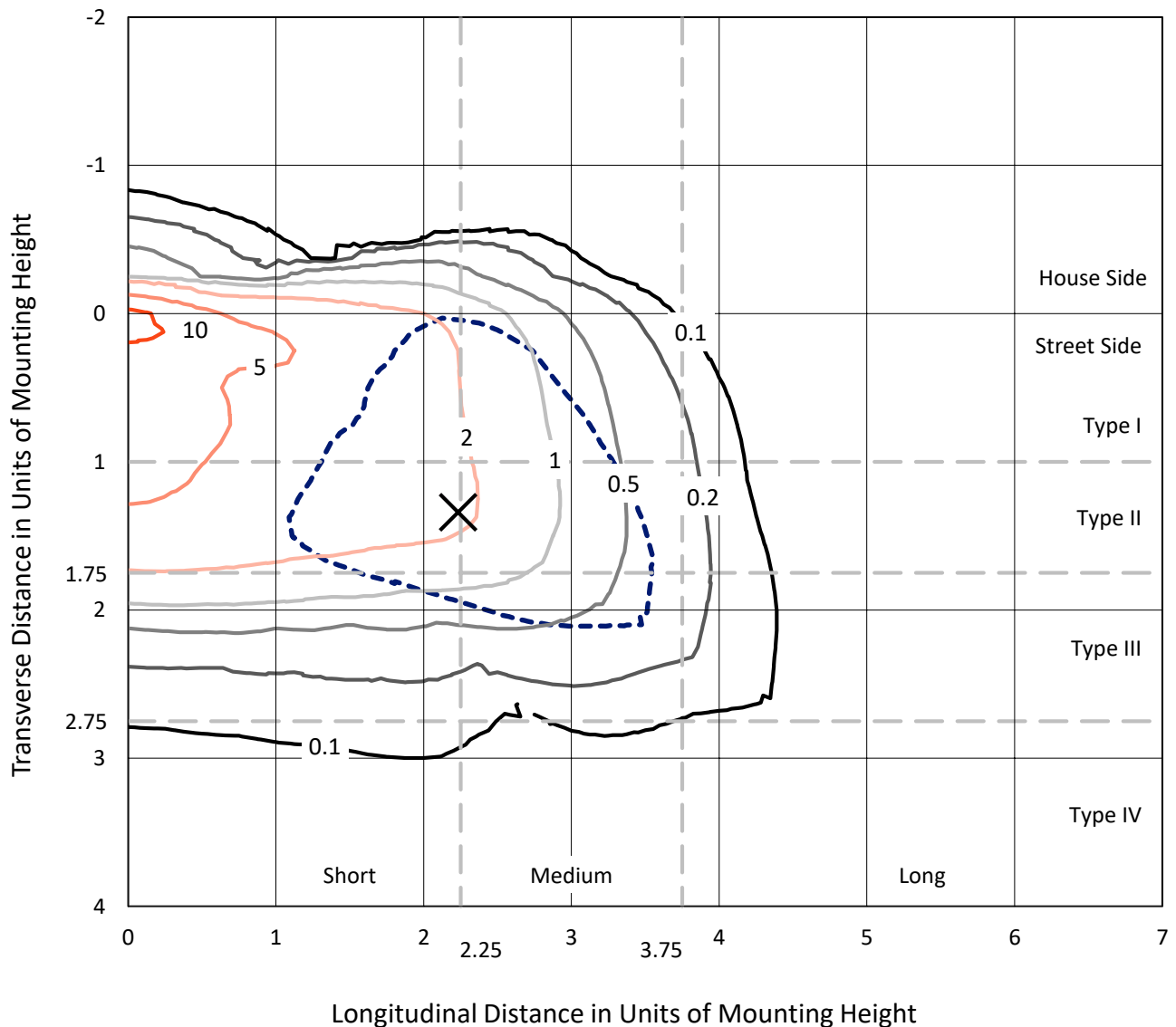


REPORT NUMBER: P269640

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7027-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

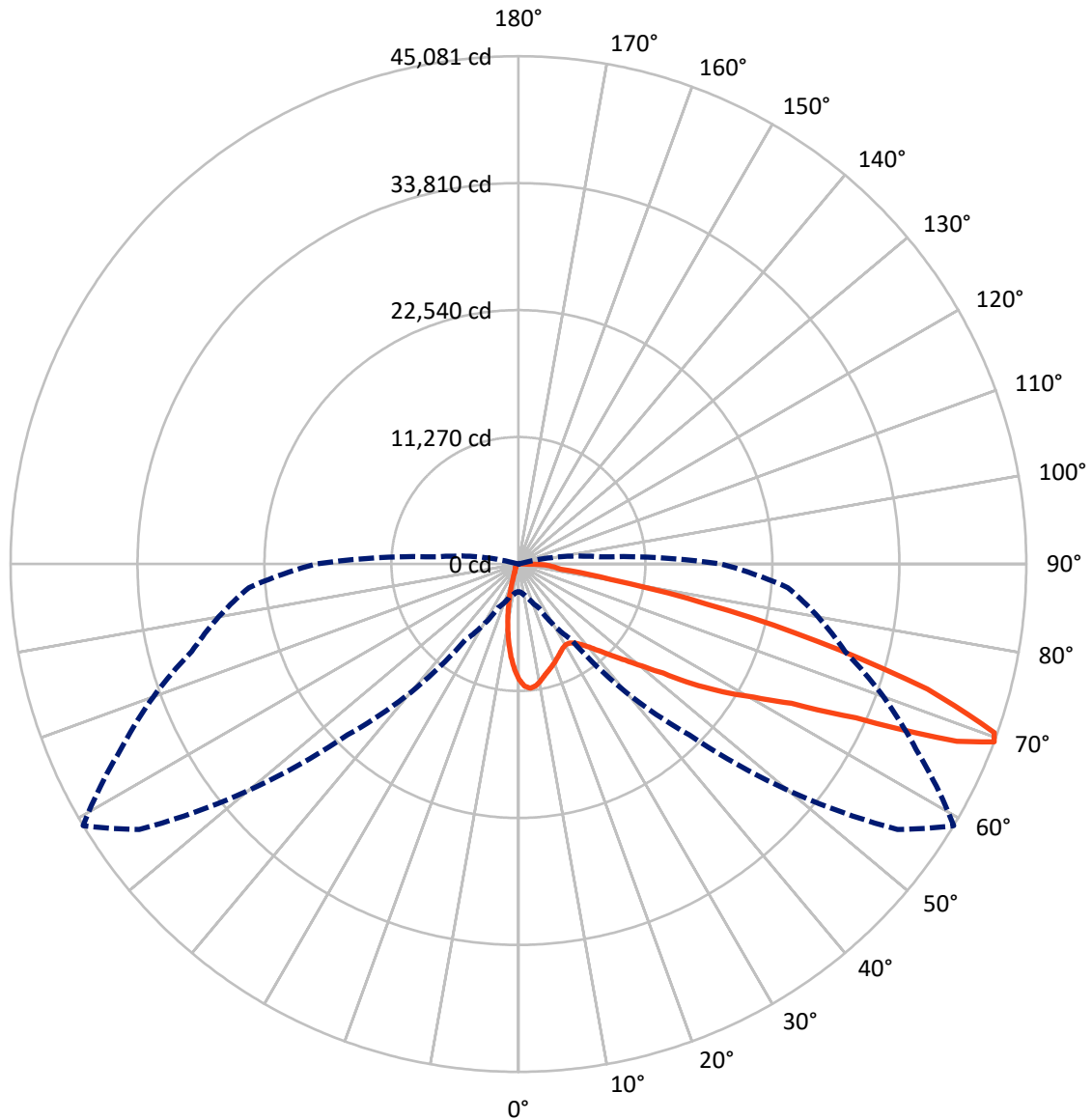


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P269640

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7027-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P269640

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL3-7027-HSS

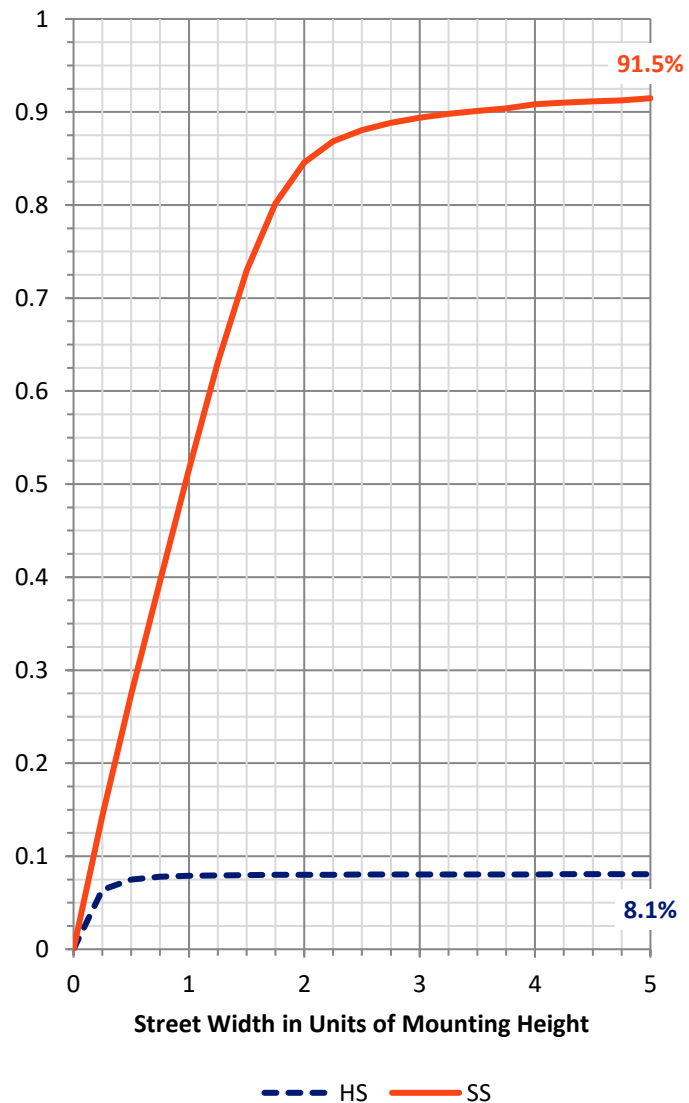
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3216.6	0.0	3216.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	36281.2	0.0	36281.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	39497.8	0.0	39497.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.5	2.1
10°-20°	1724.3	4.4
20°-30°	2320.3	5.9
30°-40°	3368.9	8.5
40°-50°	5609.4	14.2
50°-60°	8750.6	22.2
60°-70°	10828.1	27.4
70°-80°	5487.6	13.9
80°-90°	574.2	1.5
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°	39497.8	100.0
0°-180°	39497.8	100.0



REPORT NUMBER: P269640

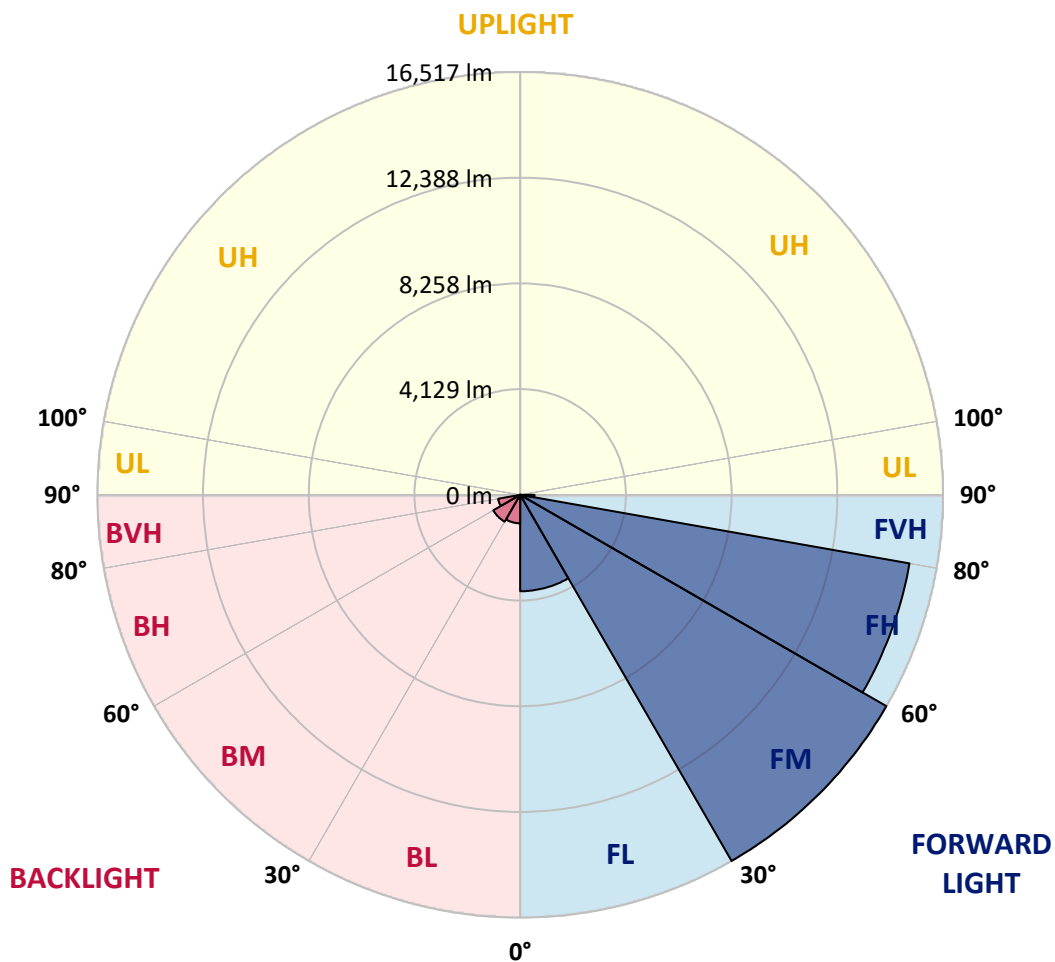
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3765.7	9.5			
FM	(30°-60°)	16516.8	41.8			
FH	(60°-80°)	15442.2	39.1			G5
FVH	(80°-90°)	556.5	1.4			G4/750
BL	(0°-30°)	1113.3	2.8	B3/2500		
BM	(30°-60°)	1212.0	3.1	B2/2500		
BH	(60°-80°)	873.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	17.7	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P269640

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7
2.5°	11267.9	11263.5	11214.4	11192.1	11151.7	11066.8	10935.2	10865.9	10754.1	10559.8	10298.6
5°	11165.2	11218.8	11247.8	11250.1	11279.1	11247.8	11129.5	11071.4	10917.2	10604.6	10135.5
7.5°	10468.3	10488.4	10571.1	10642.5	10781.0	10912.8	10955.2	10930.7	10839.0	10504.2	9880.9
10°	9722.4	9742.5	9840.8	9934.5	10122.1	10325.4	10539.9	10584.5	10622.5	10361.1	9635.2
12.5°	9079.1	9099.2	9199.7	9322.6	9541.4	9791.5	10124.3	10198.1	10365.6	10224.9	9438.8
15°	8525.3	8534.2	8632.4	8784.3	9045.7	9367.3	9744.6	9863.1	10119.9	10128.8	9266.7
17.5°	8053.9	8076.3	8136.6	8281.7	8567.7	8965.3	9405.3	9574.9	9876.4	10048.4	9099.2
20°	7765.8	7788.1	7785.9	7866.3	8123.2	8547.6	9065.8	9268.9	9635.2	9965.7	8949.5
22.5°	7710.1	7710.1	7651.9	7640.8	7792.6	8147.7	8712.8	8960.8	9418.5	9930.0	8844.6
25°	7908.8	7899.9	7754.7	7636.3	7643.0	7855.1	8371.0	8665.9	9235.5	9954.7	8788.7
27.5°	8328.6	8317.4	8134.3	7908.8	7727.8	7725.7	8112.1	8429.2	9090.3	10070.8	8811.0
30°	8909.4	8904.9	8706.2	8422.5	8094.2	7792.6	8022.7	8310.8	8996.4	10280.7	8862.5
32.5°	9543.7	9536.9	9387.3	9088.1	8672.5	8094.2	8116.5	8357.7	9023.3	10559.8	8987.5
35°	10216.0	10204.7	10140.0	9878.8	9420.9	8650.3	8424.8	8612.3	9193.1	10977.6	9233.1
37.5°	10944.1	10955.2	11002.1	10752.1	10271.8	9429.8	8940.7	9067.9	9534.7	11544.8	9633.1
40°	12018.3	12016.2	12031.8	11703.5	11241.1	10383.5	9662.0	9702.2	10106.6	12297.5	10240.5
42.5°	13968.3	13831.9	13418.7	12748.7	12284.1	11473.4	10571.1	10528.7	10805.6	13228.9	11091.5
45°	16588.1	16297.7	15225.6	13941.3	13347.2	12701.9	11690.1	11553.8	11730.2	14347.9	12141.2
47.5°	18841.7	18540.2	17023.6	15183.2	14475.2	13867.7	13001.1	12755.5	12813.6	15600.9	13472.4
50°	19607.8	19460.3	18135.9	16264.3	15567.4	15335.1	14522.1	14222.9	14140.2	17050.4	15015.7
52.5°	19341.9	19330.7	18448.6	16965.5	16568.0	16853.9	16436.2	16090.0	15786.3	18578.0	16585.9
55°	18915.4	18971.1	18576.0	17579.7	17566.4	18240.9	19053.8	18765.8	17885.8	20237.6	17939.3
57.5°	17738.3	17977.3	18504.4	18741.2	19290.7	19980.7	21233.7	21403.5	20362.7	21508.5	19062.8
60°	14392.6	14917.4	16641.7	18908.7	21512.9	23232.7	23864.7	24010.0	22395.1	22564.9	20579.4
62.5°	10216.0	10752.1	12938.6	16773.4	21546.3	27505.4	27784.5	27215.1	24633.1	24130.5	23194.7
65°	5422.9	5836.1	7622.8	12107.7	18680.9	28497.0	34639.2	32941.7	28581.9	27210.5	26574.0
67.5°	2774.0	2899.1	3609.3	5925.4	12842.4	25312.0	40783.4	41978.3	35387.3	30266.0	26411.0
69°	2454.6	2528.3	2999.6	4283.7	8223.7	21439.2	41082.6	45080.6	38949.7	30011.4	24001.1
70°	2376.5	2441.2	2870.1	3877.4	6427.9	17979.5	39936.8	44808.1	39861.0	29041.9	22200.8
72.5°	2016.9	2072.7	2555.0	3426.1	5224.2	8925.0	32441.3	37969.2	35769.3	24193.2	16069.9
75°	1349.1	1532.1	2452.4	3211.7	4860.1	5070.0	21387.8	27438.3	25488.5	16317.8	8371.0
77.5°	323.8	348.5	692.4	2555.0	4444.6	4462.5	10999.8	17057.0	13912.4	5815.9	1978.8
80°	174.2	167.5	194.4	507.1	4138.6	4187.8	4951.6	8279.5	4967.3	964.9	652.2
82.5°	122.9	116.2	125.0	212.2	1302.2	3814.8	3582.5	3747.8	2059.3	370.8	292.6
85°	44.6	42.4	69.2	192.1	408.6	2193.3	3680.7	3091.2	1668.4	169.7	214.4
87.5°	15.6	13.5	26.8	105.0	125.0	933.6	2271.5	2336.2	656.7	102.8	100.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269640

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7	10280.7
2.5°	10189.1	10050.6	9796.0	9534.7	9293.5	9003.2	8857.9	8715.0	8654.7	8632.4	8527.4
5°	9894.3	9659.8	9119.4	8576.6	8076.3	7544.8	7194.0	6912.6	6747.3	6667.0	6539.7
7.5°	9516.9	9132.7	8313.0	7475.4	6696.0	5927.6	5358.1	4920.3	4618.8	4473.6	4341.9
10°	9150.6	8639.1	7473.2	6332.0	5273.2	4254.8	3468.5	2899.1	2534.9	2367.6	2260.2
12.5°	8822.3	8158.9	6662.5	5217.4	3888.6	2695.9	1896.2	1442.9	1217.3	1139.1	1101.1
15°	8529.6	7716.7	5896.4	4158.8	2633.3	1541.1	1036.4	882.2	846.6	846.6	842.0
17.5°	8252.6	7283.4	5157.1	3164.9	1652.8	942.5	788.4	768.3	768.3	777.3	777.3
20°	7986.9	6870.1	4442.4	2271.5	1040.7	748.2	712.4	708.0	712.4	723.7	723.7
22.5°	7759.1	6494.9	3774.6	1559.0	772.8	674.4	656.7	650.0	652.2	658.8	663.4
25°	7589.4	6177.9	3144.7	1056.4	665.6	614.3	594.0	582.9	573.9	573.9	578.5
27.5°	7482.2	5909.8	2534.9	768.3	598.6	558.3	527.0	509.2	489.1	478.0	482.4
30°	7404.0	5655.2	1963.2	627.6	536.0	495.9	455.6	426.5	397.6	384.1	388.6
32.5°	7374.9	5449.7	1467.4	554.0	480.2	435.5	386.5	348.5	317.1	306.1	308.2
35°	7453.1	5286.6	1074.4	500.3	435.5	379.8	323.8	281.3	256.8	250.2	252.3
37.5°	7658.6	5199.6	804.1	455.6	395.3	332.8	270.3	230.1	214.4	214.4	216.6
40°	8047.2	5197.4	645.5	424.4	359.6	288.1	223.4	194.4	185.4	189.8	192.1
42.5°	8614.6	5315.7	562.9	395.3	328.3	245.6	185.4	165.3	163.0	167.5	169.7
45°	9389.5	5532.3	518.1	370.8	294.9	205.5	156.3	142.9	142.9	149.7	151.9
47.5°	10338.9	5849.6	480.2	346.1	261.2	171.9	133.9	125.0	127.3	133.9	136.3
50°	11482.3	6249.2	442.2	319.3	236.8	142.9	116.2	109.5	111.7	120.6	122.9
52.5°	12784.5	6787.6	411.0	294.9	205.5	118.3	98.3	93.9	98.3	107.2	109.5
55°	13901.2	7270.1	372.9	274.7	165.3	98.3	80.4	80.4	84.9	96.1	98.3
57.5°	14975.6	7774.7	339.5	236.8	129.5	78.2	67.1	69.2	75.9	87.0	89.3
60°	16552.3	8630.1	299.2	198.7	98.3	62.5	55.9	58.1	67.1	78.2	80.4
62.5°	19230.2	9932.3	259.2	165.3	75.9	49.1	44.6	49.1	60.2	73.8	75.9
65°	21646.8	10461.7	212.2	138.5	58.1	38.0	38.0	44.6	58.1	71.4	73.8
67.5°	20300.1	8806.7	165.3	109.5	44.6	29.0	31.4	42.4	55.9	71.4	73.8
69°	17952.7	7200.8	140.8	87.0	38.0	26.8	29.0	42.4	55.9	69.2	71.4
70°	16123.5	6079.5	125.0	73.8	33.4	26.8	29.0	40.2	55.9	69.2	71.4
72.5°	10798.9	3283.2	100.5	53.5	31.4	24.6	24.6	40.2	53.5	67.1	69.2
75°	4641.2	906.7	80.4	38.0	26.8	22.4	22.4	38.0	51.4	64.8	69.2
77.5°	848.7	230.1	64.8	33.4	26.8	22.4	20.1	35.8	49.1	62.5	64.8
80°	337.3	113.9	51.4	29.0	24.6	20.1	17.8	33.4	46.9	60.2	62.5
82.5°	203.2	64.8	42.4	26.8	24.6	17.8	15.6	29.0	44.6	58.1	60.2
85°	165.3	44.6	33.4	26.8	22.4	17.8	13.5	26.8	40.2	55.9	58.1
87.5°	80.4	31.4	31.4	24.6	22.4	17.8	13.5	24.6	38.0	53.5	55.9
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)