

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: P383584

Luminaire Tested: **GLEON-SA8D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47980.3 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

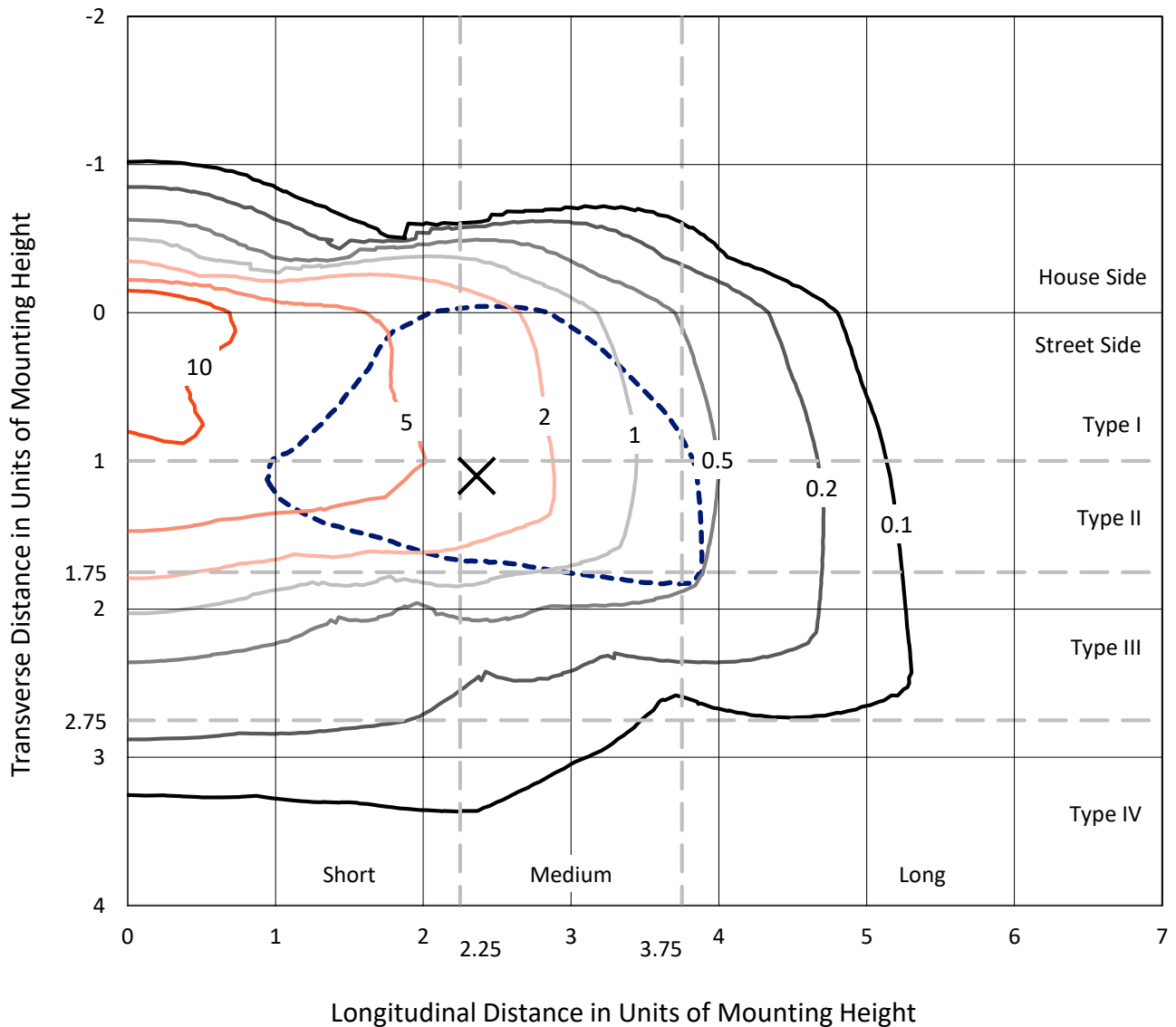
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383584
 CATALOG NUMBER: GLEON-SA8D-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

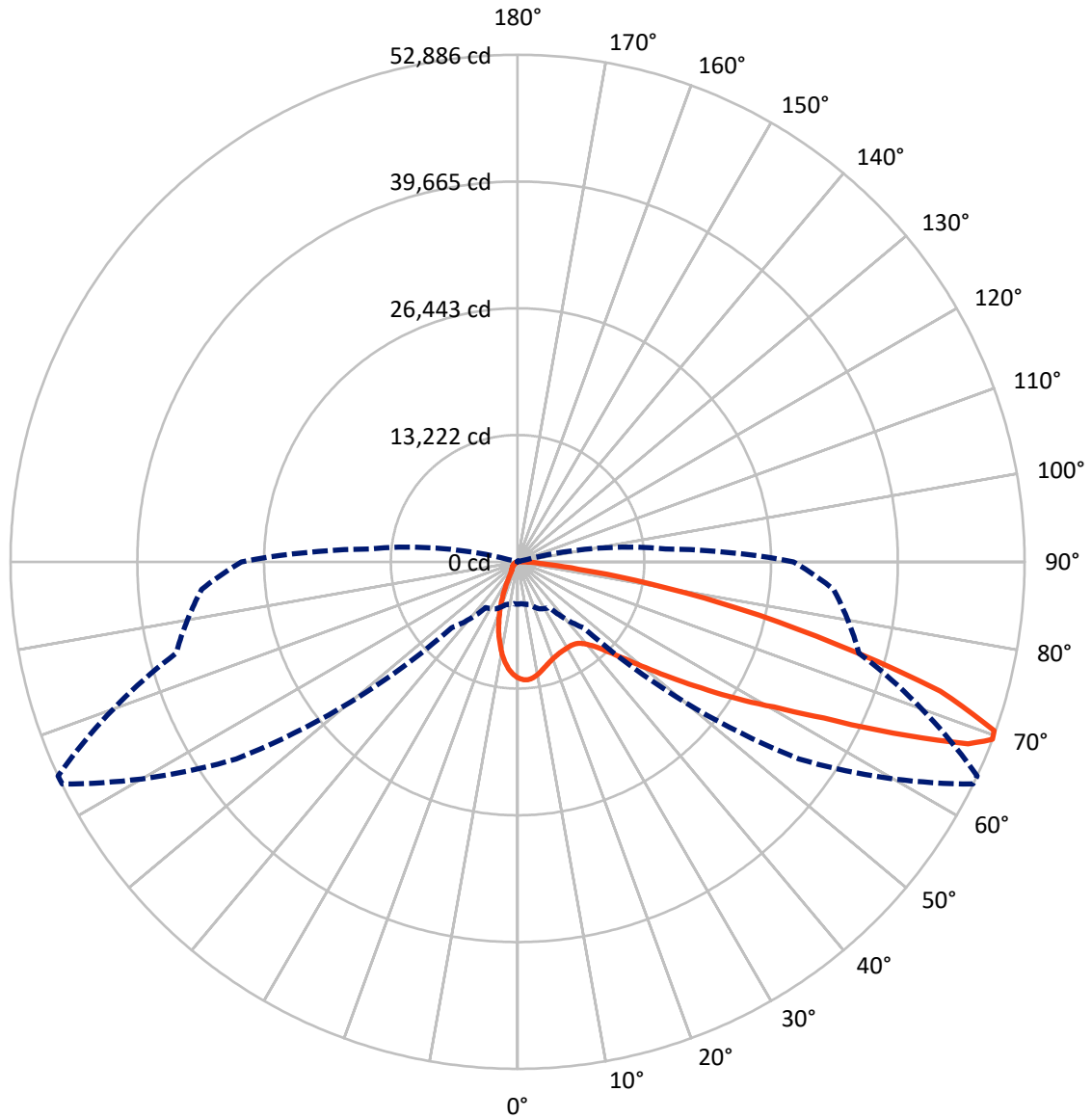
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P383584
CATALOG NUMBER: GLEON-SA8D-735-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383584
 CATALOG NUMBER: GLEON-SA8D-735-U-SL2-HSS

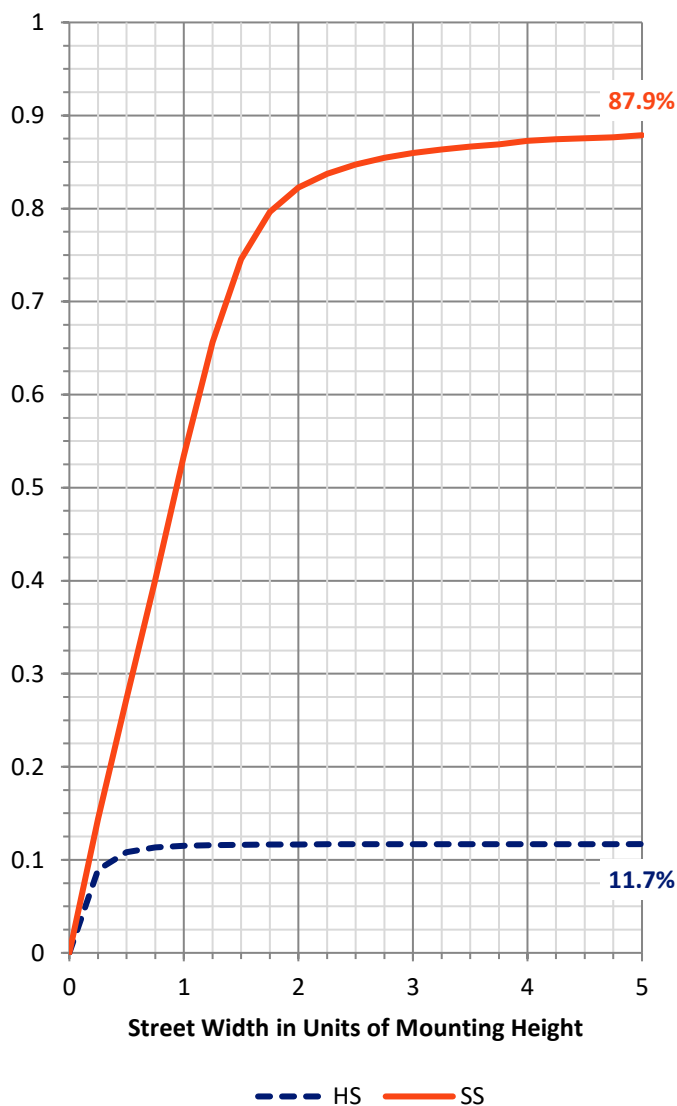
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5655.7	0.0	5655.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	42324.6	0.0	42324.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	47980.3	0.0	47980.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.9	2.1
10°-20°	2219.4	4.6
20°-30°	3074.0	6.4
30°-40°	4286.1	8.9
40°-50°	6662.0	13.9
50°-60°	10695.1	22.3
60°-70°	12098.0	25.2
70°-80°	7105.3	14.8
80°-90°	826.5	1.7
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°	47980.3	100.0
0°-180°	47980.3	100.0

Coefficient of Utilization

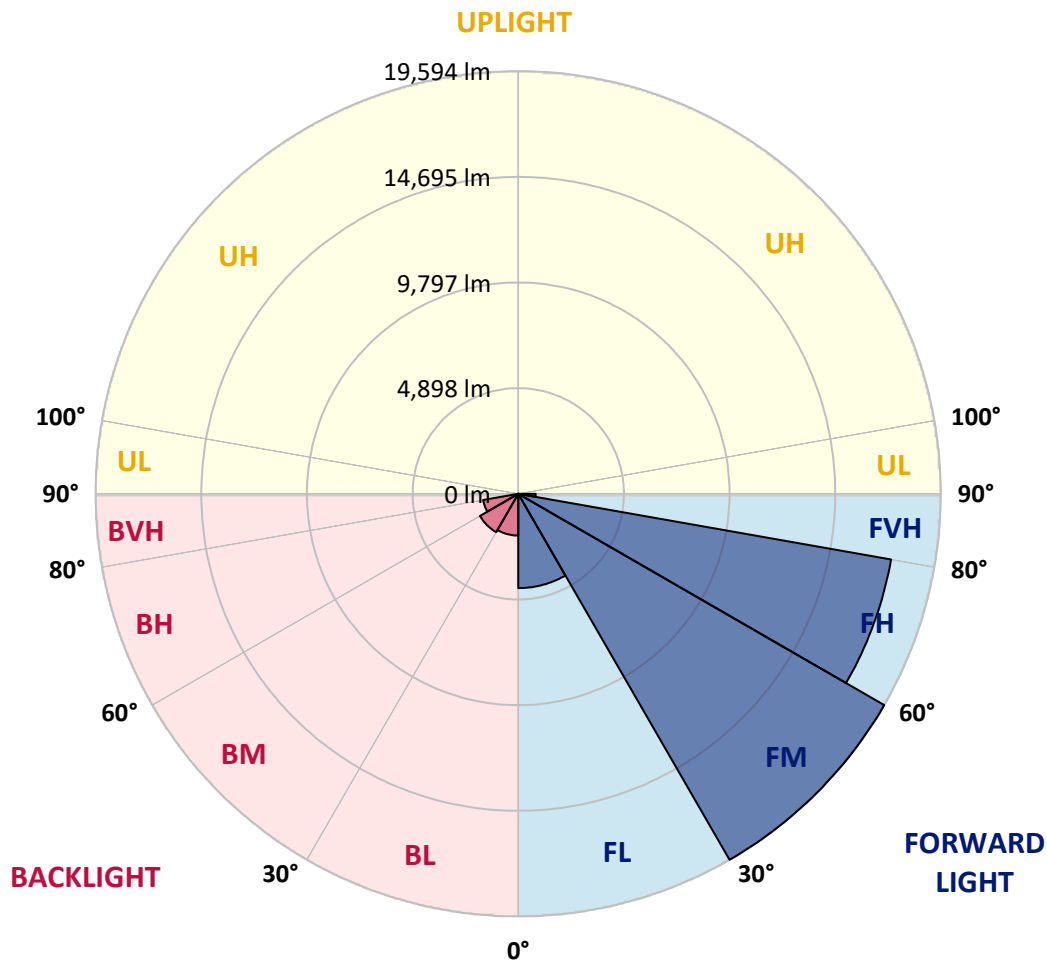


REPORT NUMBER: P383584
 CATALOG NUMBER: GLEON-SA8D-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4372.1	9.1			
FM (30°-60°)	19593.8	40.8			
FH (60°-80°)	17550.7	36.6			G5
FVH (80°-90°)	807.9	1.7			G5
BL (0°-30°)	1935.2	4.0	B3/2500		
BM (30°-60°)	2049.5	4.3	B2/2500		
BH (60°-80°)	1652.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	18.6	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 Medium





REPORT NUMBER: P383584

CATALOG NUMBER: GLEON-SA8D-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7
2.5°	12232.3	12201.9	12226.2	12279.0	12305.4	12305.4	12325.7	12301.4	12309.5	12250.6	12165.3
5°	11466.9	11420.2	11487.2	11635.4	11818.2	11974.5	12205.9	12327.7	12339.9	12342.0	12242.5
7.5°	10642.7	10600.0	10699.5	10874.0	11109.5	11399.9	11803.9	12157.2	12177.5	12368.3	12295.2
10°	9972.6	9942.2	10057.9	10244.7	10520.8	10845.6	11341.0	11832.3	11891.2	12313.5	12287.1
12.5°	9440.7	9416.4	9526.0	9741.2	10023.4	10382.8	10900.5	11471.0	11550.2	12189.7	12246.5
15°	9053.0	9048.9	9140.3	9347.3	9660.0	9994.9	10524.9	11136.0	11227.3	12055.7	12240.4
17.5°	8849.9	8855.9	8923.0	9099.6	9367.6	9700.6	10208.2	10853.7	10953.2	11935.9	12270.9
20°	8829.6	8835.7	8872.2	8971.7	9189.0	9483.3	9950.3	10616.2	10719.8	11846.6	12319.6
22.5°	9008.3	9004.2	9014.3	9004.2	9126.0	9349.4	9779.8	10433.5	10553.3	11787.7	12358.2
25°	9351.3	9345.3	9341.2	9266.1	9184.9	9304.7	9708.7	10329.9	10443.7	11745.0	12380.5
27.5°	9828.5	9824.4	9818.3	9694.5	9450.8	9375.7	9716.8	10291.4	10386.8	11710.5	12376.4
30°	10455.9	10484.3	10476.1	10303.6	9923.9	9593.0	9802.1	10271.1	10354.3	11643.5	12333.8
32.5°	11192.8	11249.6	11294.4	11109.5	10634.5	10023.4	9999.0	10293.4	10354.3	11592.7	12256.7
35°	11958.2	12031.3	12195.7	12130.8	11505.5	10671.1	10338.0	10427.4	10478.1	11621.2	12220.1
37.5°	12711.4	12798.7	13156.1	13344.9	12646.5	11527.8	10865.9	10758.4	10784.7	11793.8	12260.8
40°	13586.5	13718.4	14260.5	14565.1	14008.8	12674.9	11655.7	11326.8	11336.9	12173.5	12449.6
42.5°	14735.6	14871.6	15458.4	15935.5	15543.6	14124.5	12727.7	12195.7	12185.6	12884.0	12894.2
45°	16136.5	16278.6	16885.7	17415.6	17238.9	15842.1	14100.2	13464.7	13452.5	14004.7	13736.7
47.5°	17724.2	17864.3	18406.4	18952.4	19143.3	17848.0	15848.2	15196.5	15168.0	15562.0	15038.2
50°	19086.5	19177.9	19677.3	20412.3	21273.0	20312.8	18022.6	17395.3	17364.8	17630.7	16948.6
52.5°	19581.9	19634.6	20142.2	21171.6	23319.5	23650.5	20879.1	20071.1	20048.8	20164.6	19492.5
55°	18578.9	18674.4	19297.6	20824.4	24428.1	27422.7	24484.9	23384.5	23216.0	22966.3	22152.1
57.5°	15846.2	15998.4	16668.5	18698.7	23910.3	30415.3	29783.9	27132.3	26884.7	25357.9	24314.4
60°	11872.9	12059.7	12616.0	14806.7	21147.2	31481.2	35574.2	31308.6	30750.3	27262.3	26302.0
62.5°	8147.4	8240.8	8618.5	10045.7	15574.1	29735.2	40418.4	36902.0	35882.7	29333.1	28452.1
65°	6222.7	6255.2	6409.5	6900.8	9274.2	24154.0	42345.1	44282.0	43049.6	31810.1	30683.3
67.5°	5014.7	4988.3	5201.5	5904.0	6210.5	14735.6	40097.6	51264.0	50687.5	35121.5	32928.7
69°	4421.9	4385.4	4602.6	5418.7	5833.0	9741.2	35846.2	52849.7	52886.2	36869.5	33083.1
70°	3979.3	4003.7	4218.9	5130.5	5705.0	7646.0	31785.7	52445.7	52734.0	37523.2	32157.3
72.5°	2657.6	2722.5	3155.1	4259.5	5485.8	5786.2	19192.0	45004.7	46113.3	36051.3	27589.2
75°	1498.3	1547.0	2060.7	3211.9	5169.1	5510.1	10137.1	33156.1	34228.1	30147.3	21275.1
77.5°	735.0	761.4	1165.4	2072.9	4322.4	5250.2	5749.7	22521.7	23745.9	19677.3	12033.4
80°	310.7	324.8	582.7	1279.1	3090.0	5010.7	4269.7	13860.6	14012.8	7708.9	3205.7
82.5°	119.8	123.8	245.6	797.9	1963.2	3906.3	3571.2	6572.0	6413.6	1451.6	730.9
85°	14.3	16.2	89.3	479.1	1092.2	2010.0	2901.2	2832.2	2621.1	288.3	375.6
87.5°	0.0	0.0	6.1	146.2	324.8	942.1	1508.5	1175.5	1059.8	93.4	194.9
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: P383584

CATALOG NUMBER: GLEON-SA8D-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7	12124.7
2.5°	12094.3	12074.0	11964.3	11806.0	11655.7	11468.9	11290.3	11182.7	11097.4	11040.5	11107.6
5°	12126.7	12037.4	11704.4	11278.1	10859.9	10388.8	9950.3	9578.7	9432.6	9270.2	9343.2
7.5°	12116.5	11948.0	11349.1	10589.8	9822.4	9028.6	8277.4	7698.8	7398.3	7103.9	7179.0
10°	12065.9	11781.6	10874.0	9749.3	8600.1	7459.2	6393.3	5583.2	5130.5	4720.3	4779.2
12.5°	11954.2	11558.3	10313.7	8786.9	7250.0	5745.6	4497.0	3459.6	2903.3	2657.6	2688.1
15°	11887.2	11341.0	9720.9	7812.4	5808.6	4001.6	2749.0	2044.5	1790.7	1709.5	1719.6
17.5°	11854.7	11131.9	9107.7	6697.8	4334.6	2548.0	1776.5	1567.3	1512.6	1498.3	1502.4
20°	11822.2	10920.7	8476.3	5595.4	2986.5	1713.6	1459.7	1398.8	1378.5	1360.2	1364.3
22.5°	11767.4	10717.7	7798.3	4478.8	2014.0	1390.7	1315.6	1256.8	1214.1	1191.7	1195.8
25°	11700.4	10504.6	7105.9	3335.7	1469.9	1240.4	1169.5	1086.2	1035.4	994.8	996.8
27.5°	11592.7	10242.6	6391.3	2428.2	1234.4	1110.6	1015.1	923.7	838.5	791.8	791.8
30°	11442.6	9946.2	5597.4	1737.9	1106.5	982.7	866.9	753.2	661.9	619.2	615.2
32.5°	11276.0	9637.6	4795.5	1317.7	1005.0	862.9	730.9	611.1	529.9	495.4	493.3
35°	11134.0	9304.7	3995.6	1104.4	903.5	747.1	603.0	501.5	436.5	408.1	406.1
37.5°	11042.6	8971.7	3215.9	986.7	812.1	639.5	505.6	414.2	367.5	345.1	343.1
40°	11028.4	8724.0	2503.3	897.4	726.8	544.1	422.3	351.2	308.6	284.2	282.2
42.5°	11213.1	8581.9	1920.7	822.3	639.5	460.8	359.4	300.5	255.8	231.5	229.4
45°	11698.4	8626.6	1478.0	755.3	552.2	389.9	304.5	249.7	209.1	190.9	186.8
47.5°	12583.5	8935.1	1175.5	688.2	469.0	330.9	259.9	207.1	172.6	154.3	152.3
50°	14159.1	9660.0	982.7	615.2	391.8	282.2	215.2	168.5	140.1	123.8	121.8
52.5°	16250.2	10951.2	877.1	544.1	324.8	239.6	176.6	134.0	109.6	97.4	95.4
55°	18556.5	12514.5	808.0	467.0	266.0	199.0	140.1	105.5	85.2	75.1	71.1
57.5°	20808.2	13868.7	743.1	391.8	221.3	162.5	111.7	83.3	67.0	56.8	54.8
60°	22876.9	15113.2	667.9	314.7	180.7	127.9	87.3	64.9	52.8	42.7	42.7
62.5°	25092.0	16075.6	564.4	245.6	148.2	97.4	71.1	58.9	42.7	36.5	34.6
65°	27438.9	16790.2	442.6	190.9	115.7	73.1	58.9	60.9	34.6	26.4	24.4
67.5°	29172.8	16648.2	326.9	150.3	89.3	56.8	56.8	64.9	30.5	20.3	18.3
69°	28791.1	15492.9	274.1	130.0	77.1	48.7	52.8	64.9	28.4	18.3	16.2
70°	27684.6	14213.8	241.6	115.7	69.0	44.6	50.8	63.0	26.4	18.3	16.2
72.5°	23055.6	10705.5	188.8	87.3	54.8	36.5	42.7	54.8	26.4	18.3	14.3
75°	17342.4	6852.1	144.1	63.0	40.6	28.4	32.5	40.6	26.4	16.2	14.3
77.5°	9436.7	2470.8	103.6	42.7	28.4	22.4	22.4	30.5	24.4	12.2	8.1
80°	2426.1	621.2	64.9	28.4	22.4	16.2	14.3	20.3	14.3	2.0	0.0
82.5°	598.9	140.1	34.6	20.3	16.2	6.1	6.1	10.2	6.1	0.0	0.0
85°	328.9	69.0	22.4	14.3	8.1	0.0	0.0	2.0	0.0	0.0	0.0
87.5°	168.5	20.3	6.1	4.1	2.0	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)