

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: P383388

Luminaire Tested: **GLEON-SA7A-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383388
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-SA7A-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 25434 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

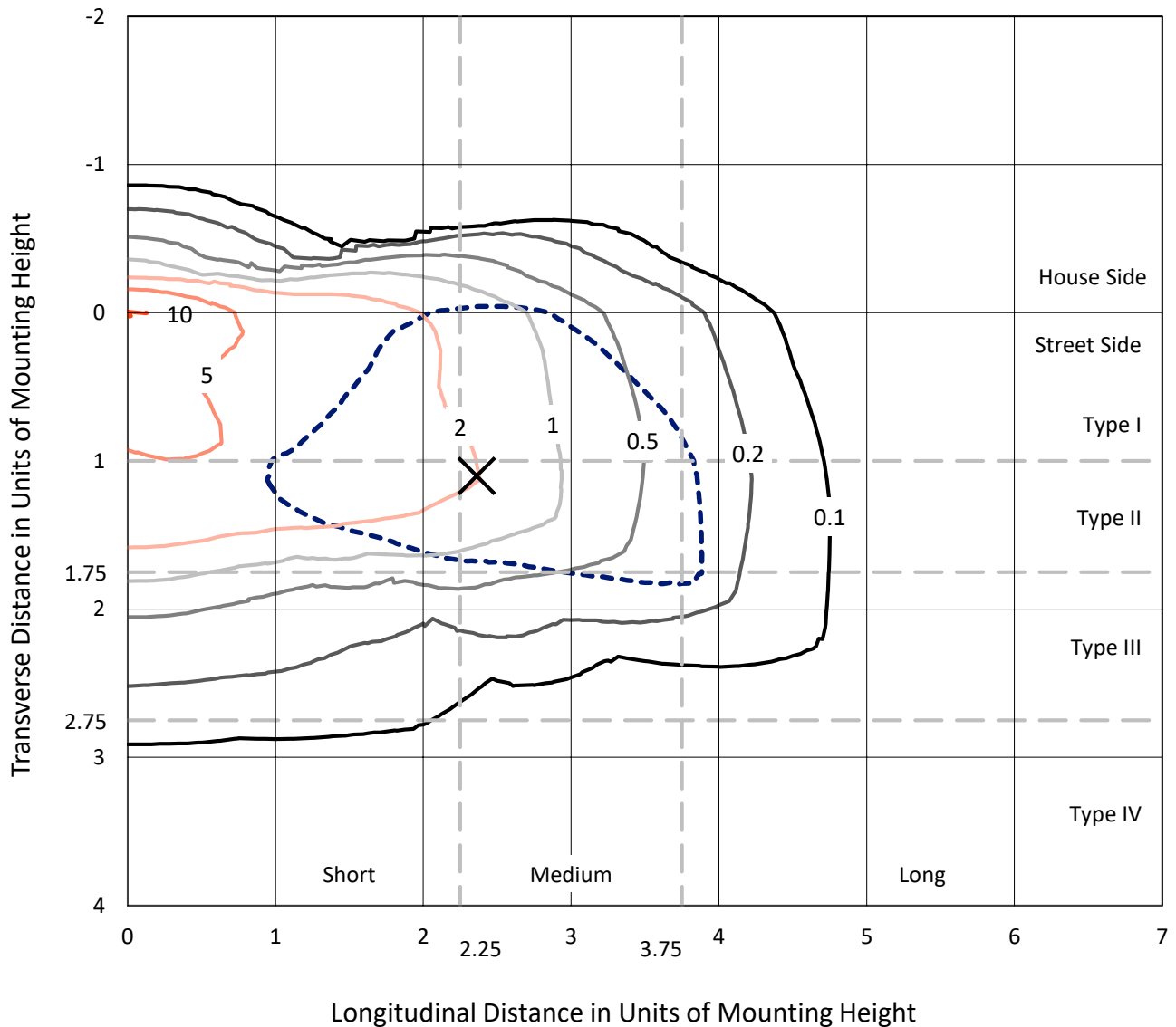
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383388
 CATALOG NUMBER: GLEON-SA7A-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

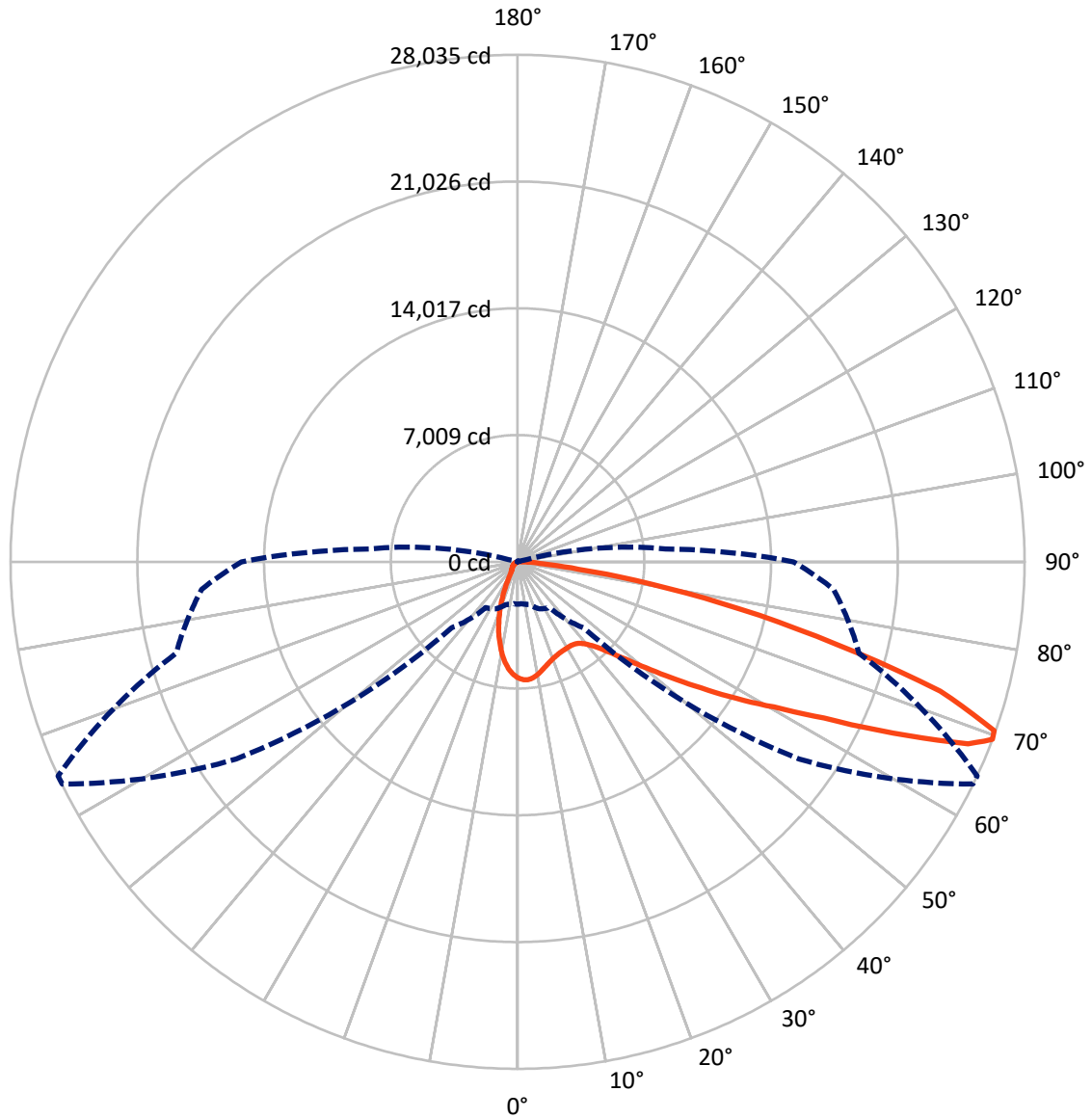
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P383388
CATALOG NUMBER: GLEON-SA7A-735-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383388
 CATALOG NUMBER: GLEON-SA7A-735-U-SL2-HSS

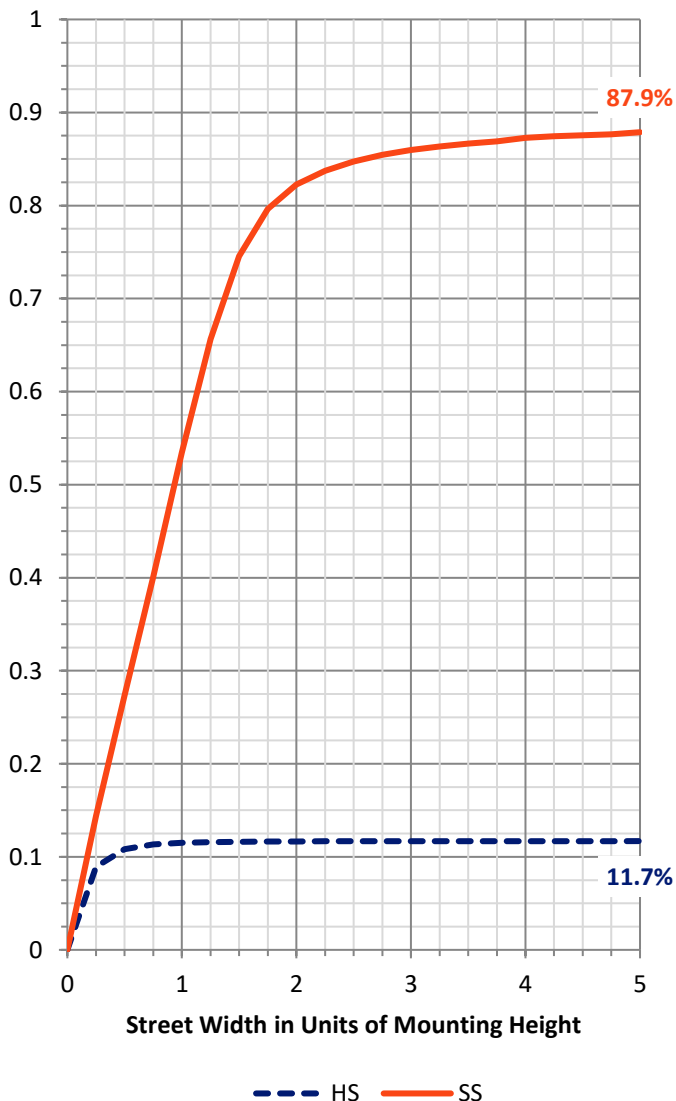
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2998.1	0.0	2998.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22436.0	0.0	22436.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	25434.0	0.0	25434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.4	2.1
10°-20°	1176.5	4.6
20°-30°	1629.5	6.4
30°-40°	2272.0	8.9
40°-50°	3531.5	13.9
50°-60°	5669.4	22.3
60°-70°	6413.1	25.2
70°-80°	3766.4	14.8
80°-90°	438.1	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°	25434.0	100.0
0°-180°	25434.0	100.0

Coefficient of Utilization

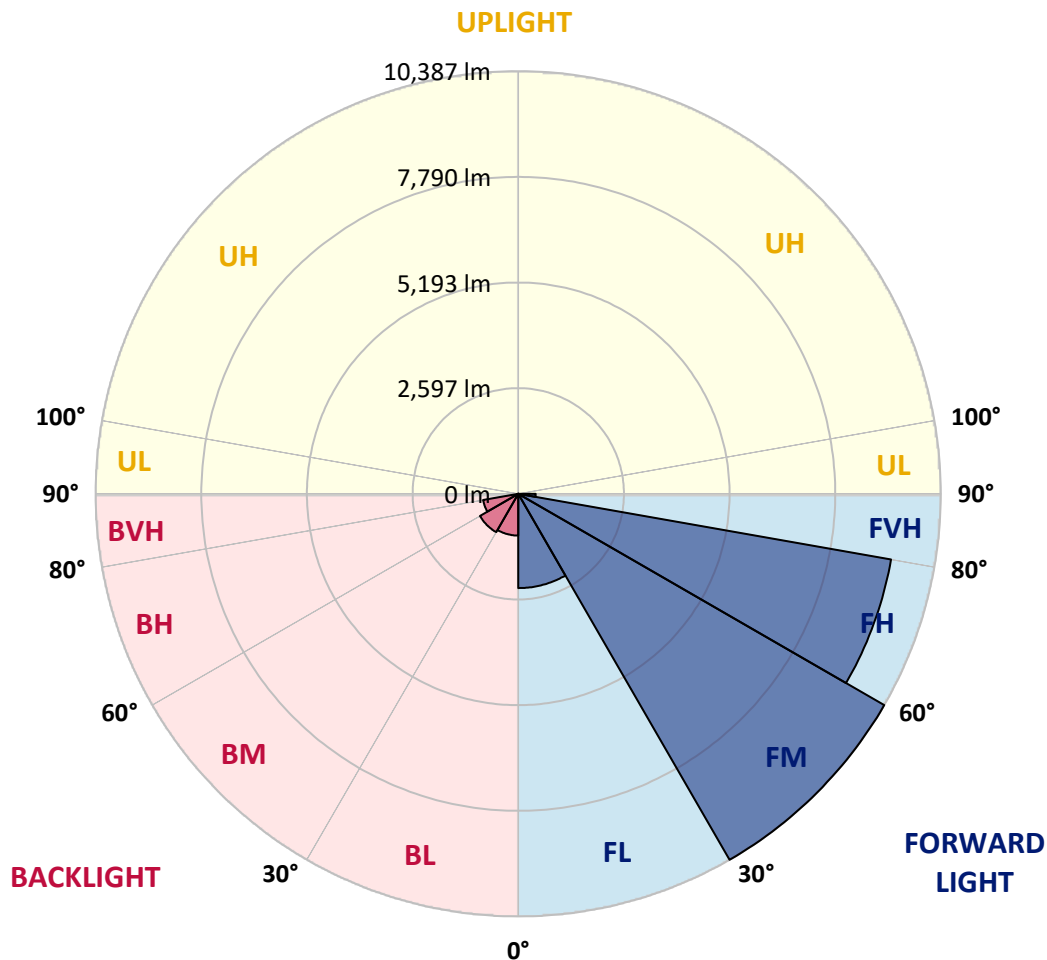


REPORT NUMBER: P383388
 CATALOG NUMBER: GLEON-SA7A-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.6	9.1			
FM (30°-60°)	10386.5	40.8			
FH (60°-80°)	9303.5	36.6			G4/12000
FVH (80°-90°)	428.3	1.7			G3/500
BL (0°-30°)	1025.8	4.0	B3/2500		
BM (30°-60°)	1086.4	4.3	B2/2500		
BH (60°-80°)	876.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





REPORT NUMBER: P383388

CATALOG NUMBER: GLEON-SA7A-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2
2.5°	6484.2	6468.1	6481.1	6509.0	6523.0	6523.0	6533.8	6520.8	6525.1	6493.9	6448.7
5°	6078.5	6053.8	6089.2	6167.9	6264.8	6347.6	6470.3	6534.8	6541.3	6542.4	6489.6
7.5°	5641.5	5619.0	5671.7	5764.2	5889.2	6043.0	6257.2	6444.4	6455.3	6556.4	6517.7
10°	5286.4	5270.3	5331.6	5430.6	5577.0	5749.2	6011.8	6272.3	6303.5	6527.4	6513.3
12.5°	5004.5	4991.5	5049.6	5163.8	5313.4	5503.9	5778.3	6080.7	6122.7	6461.7	6491.8
15°	4798.9	4796.7	4845.2	4955.0	5120.7	5298.3	5579.1	5903.1	5951.6	6390.6	6488.6
17.5°	4691.3	4694.5	4730.0	4823.6	4965.7	5142.2	5411.3	5753.5	5806.2	6327.2	6504.7
20°	4680.5	4683.7	4703.1	4755.8	4871.0	5027.1	5274.6	5627.6	5682.4	6279.7	6530.5
22.5°	4775.2	4773.1	4778.5	4773.1	4837.6	4956.0	5184.2	5530.7	5594.2	6248.5	6551.0
25°	4957.1	4953.9	4951.7	4911.9	4868.8	4932.4	5146.5	5475.8	5536.1	6226.0	6562.8
27.5°	5210.1	5207.8	5204.6	5139.0	5009.9	4970.0	5150.8	5455.4	5506.0	6207.6	6560.7
30°	5542.6	5557.6	5553.3	5461.8	5260.6	5085.1	5196.0	5444.6	5488.8	6172.2	6538.1
32.5°	5933.2	5963.4	5987.1	5889.2	5637.3	5313.4	5300.4	5456.4	5488.8	6145.2	6497.2
35°	6339.0	6377.7	6464.9	6430.5	6098.9	5656.6	5480.1	5527.5	5554.4	6160.3	6477.8
37.5°	6738.3	6784.6	6973.9	7074.1	6703.8	6110.9	5759.9	5702.9	5716.9	6251.8	6499.3
40°	7202.1	7272.0	7559.4	7720.9	7425.9	6718.9	6178.6	6004.3	6009.7	6453.0	6599.5
42.5°	7811.2	7883.4	8194.4	8447.3	8239.6	7487.3	6746.8	6464.9	6459.5	6829.7	6835.1
45°	8553.8	8629.2	8951.0	9231.9	9138.2	8397.8	7474.4	7137.5	7131.1	7423.8	7281.7
47.5°	9395.5	9469.7	9757.0	10046.6	10147.7	9461.1	8401.1	8055.6	8040.5	8249.3	7971.6
50°	10117.6	10166.1	10430.8	10820.4	11276.7	10767.7	9553.7	9221.1	9205.0	9345.9	8984.3
52.5°	10380.2	10408.2	10677.2	11222.9	12361.5	12537.0	11067.9	10639.6	10627.7	10689.0	10332.8
55°	9848.5	9899.1	10229.5	11038.8	12949.2	14536.6	12979.3	12396.0	12306.7	12174.3	11742.7
57.5°	8400.0	8480.6	8835.8	9912.0	12674.7	16122.9	15788.2	14382.7	14251.4	13442.0	12888.9
60°	6293.8	6392.7	6687.7	7848.9	11210.0	16687.9	18857.7	16596.5	16300.5	14451.6	13942.6
62.5°	4318.9	4368.4	4568.6	5325.2	8255.7	15762.4	21425.5	19561.5	19021.3	15549.3	15082.2
65°	3298.6	3315.8	3397.6	3658.1	4916.2	12803.8	22446.9	23473.6	22820.3	16862.3	16265.0
67.5°	2658.3	2644.3	2757.3	3129.6	3292.2	7811.2	21255.5	27174.7	26869.1	18617.6	17455.3
69°	2344.1	2324.7	2439.8	2872.4	3092.0	5163.8	19001.9	28015.3	28034.6	19544.2	17537.1
70°	2109.4	2122.3	2236.4	2719.7	3024.2	4053.1	16849.4	27801.1	27953.9	19890.9	17046.4
72.5°	1408.8	1443.2	1672.5	2257.9	2907.9	3067.2	10173.6	23856.7	24444.4	19110.6	14624.8
75°	794.2	820.0	1092.3	1702.6	2740.1	2920.9	5373.6	17575.9	18144.1	15980.9	11277.8
77.5°	389.6	403.5	617.7	1098.9	2291.3	2783.1	3047.8	11938.6	12587.5	10430.8	6378.8
80°	164.7	172.1	308.9	678.0	1638.0	2656.1	2263.3	7347.4	7428.2	4086.4	1699.3
82.5°	63.5	65.7	130.2	422.9	1040.7	2070.6	1893.1	3483.7	3399.8	769.5	387.4
85°	7.5	8.6	47.3	254.0	579.0	1065.5	1537.9	1501.4	1389.4	152.9	199.1
87.5°	0.0	0.0	3.3	77.5	172.1	499.4	799.6	623.1	561.8	49.5	103.3
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: P383388

CATALOG NUMBER: GLEON-SA7A-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2	6427.2
2.5°	6411.1	6400.3	6342.2	6258.2	6178.6	6079.7	5984.9	5927.9	5882.6	5852.5	5888.0
5°	6428.3	6380.9	6204.5	5978.5	5756.8	5507.0	5274.6	5077.7	5000.2	4914.0	4952.8
7.5°	6422.9	6333.6	6016.1	5613.6	5206.8	4786.0	4387.8	4081.0	3921.8	3765.7	3805.6
10°	6396.0	6245.4	5764.2	5168.0	4558.9	3954.0	3389.1	2959.6	2719.7	2502.2	2533.4
12.5°	6336.9	6127.0	5467.3	4657.9	3843.2	3045.7	2383.8	1833.8	1539.0	1408.8	1424.9
15°	6301.3	6011.8	5152.9	4141.3	3079.0	2121.2	1457.2	1083.8	949.2	906.2	911.5
17.5°	6284.1	5901.0	4827.9	3550.5	2297.8	1350.7	941.7	830.8	801.8	794.2	796.4
20°	6266.9	5789.0	4493.2	2966.0	1583.2	908.4	773.8	741.5	730.8	721.1	723.3
22.5°	6237.8	5681.4	4133.7	2374.1	1067.6	737.2	697.4	666.1	643.6	631.8	633.9
25°	6202.3	5568.4	3766.8	1768.3	779.1	657.6	619.9	575.8	548.9	527.3	528.5
27.5°	6145.2	5429.5	3387.9	1287.2	654.3	588.7	538.2	489.7	444.4	419.8	419.8
30°	6065.6	5272.5	2967.2	921.2	586.5	520.9	459.5	399.3	350.8	328.3	326.1
32.5°	5977.4	5108.9	2542.0	698.5	532.8	457.4	387.4	323.9	280.9	262.6	261.5
35°	5902.0	4932.4	2118.1	585.5	478.9	396.1	319.6	265.9	231.4	216.3	215.3
37.5°	5853.6	4755.8	1704.7	523.1	430.5	339.0	268.0	219.6	194.8	183.0	181.8
40°	5846.0	4624.6	1327.0	475.6	385.3	288.4	223.9	186.2	163.6	150.6	149.6
42.5°	5944.0	4549.2	1018.1	435.9	339.0	244.3	190.5	159.3	135.6	122.7	121.7
45°	6201.2	4572.9	783.5	400.4	292.7	206.6	161.4	132.4	110.9	101.2	99.0
47.5°	6670.4	4736.5	623.1	364.9	248.6	175.4	137.8	109.7	91.5	81.8	80.7
50°	7505.6	5120.7	520.9	326.1	207.7	149.6	114.1	89.3	74.2	65.7	64.6
52.5°	8614.1	5805.1	464.9	288.4	172.1	127.0	93.6	71.1	58.1	51.7	50.6
55°	9836.7	6633.8	428.3	247.5	140.9	105.5	74.2	56.0	45.2	39.8	37.6
57.5°	11030.3	7351.7	393.9	207.7	117.3	86.1	59.2	44.2	35.5	30.1	29.1
60°	12126.9	8011.4	354.1	166.8	95.8	67.8	46.3	34.5	27.9	22.6	22.6
62.5°	13301.1	8521.6	299.2	130.2	78.5	51.7	37.6	31.2	22.6	19.4	18.3
65°	14545.2	8900.4	234.7	101.2	61.4	38.8	31.2	32.3	18.3	14.0	12.9
67.5°	15464.3	8825.0	173.3	79.6	47.3	30.1	30.1	34.5	16.1	10.8	9.7
69°	15262.0	8212.7	145.3	68.8	40.9	25.8	27.9	34.5	15.1	9.7	8.6
70°	14675.4	7534.6	128.1	61.4	36.6	23.7	26.9	33.3	14.0	9.7	8.6
72.5°	12221.6	5675.0	100.0	46.3	29.1	19.4	22.6	29.1	14.0	9.7	7.5
75°	9193.2	3632.3	76.4	33.3	21.5	15.1	17.2	21.5	14.0	8.6	7.5
77.5°	5002.3	1309.8	54.9	22.6	15.1	11.8	11.8	16.1	12.9	6.4	4.3
80°	1286.1	329.3	34.5	15.1	11.8	8.6	7.5	10.8	7.5	1.1	0.0
82.5°	317.5	74.2	18.3	10.8	8.6	3.3	3.3	5.4	3.3	0.0	0.0
85°	174.4	36.6	11.8	7.5	4.3	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	89.3	10.8	3.3	2.1	1.1	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)