

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: P651583

Luminaire Tested: **GALN-SA8D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42060.9 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

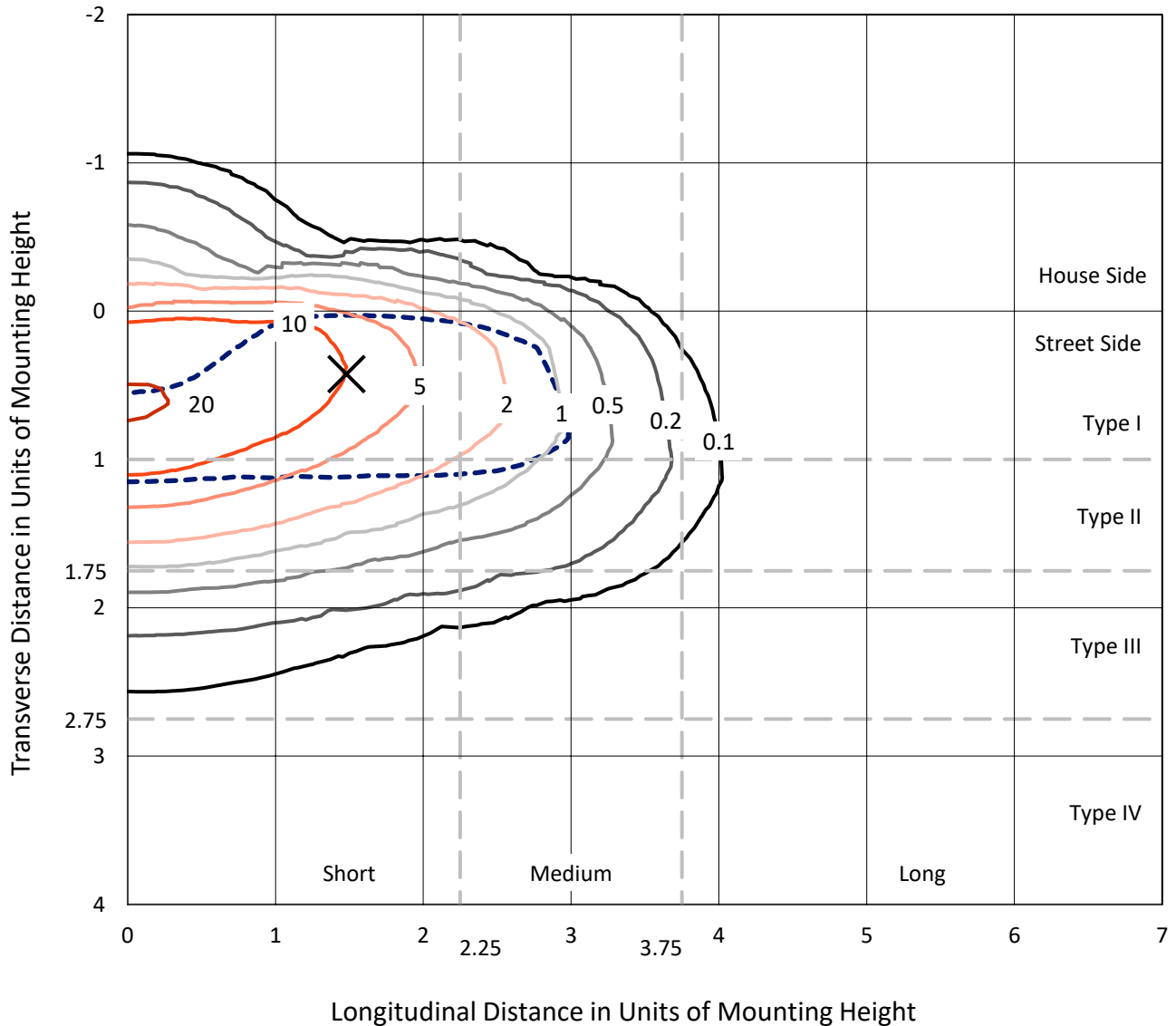
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651583
 CATALOG NUMBER: GALN-SA8D-840-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

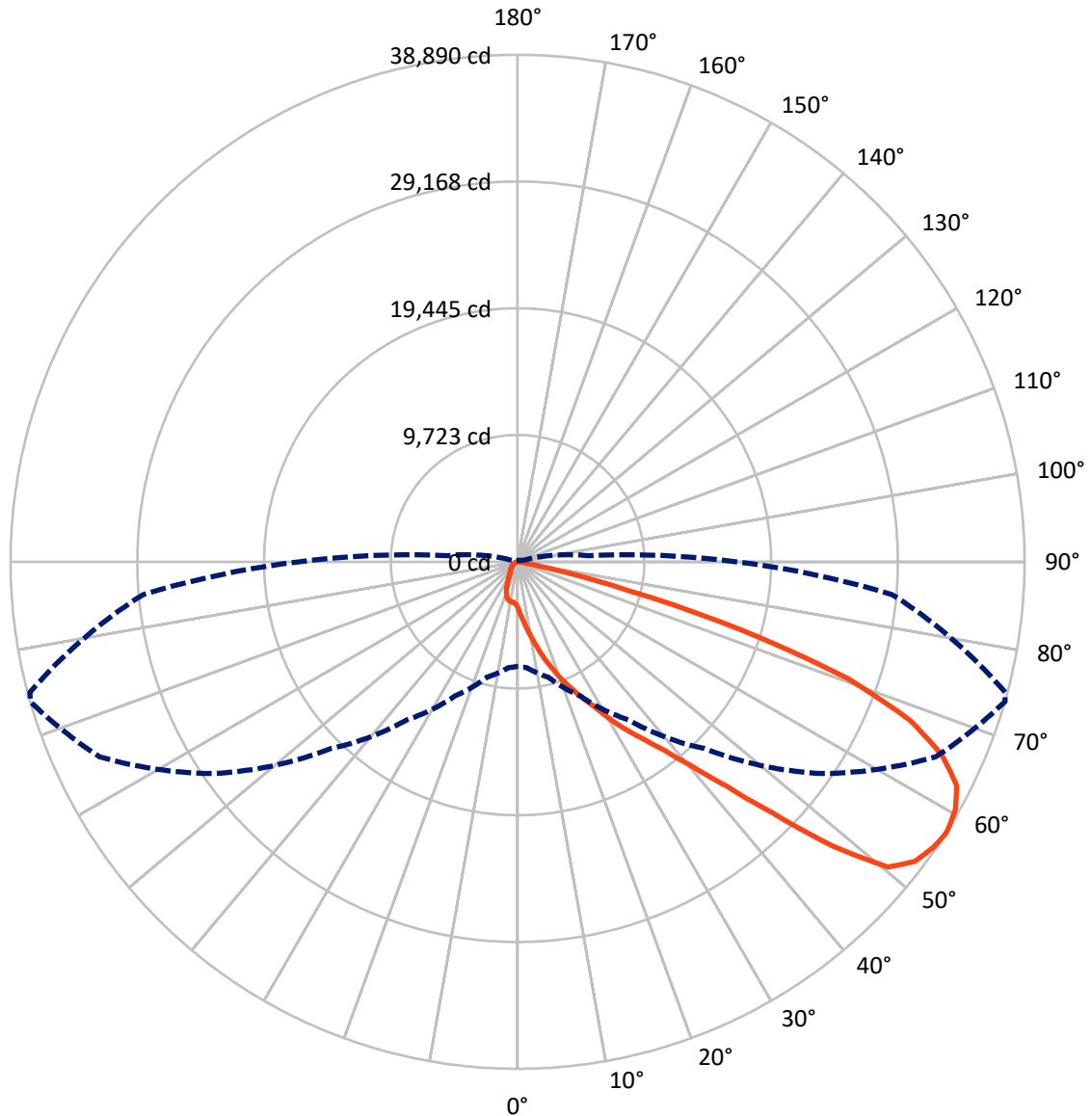
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

REPORT NUMBER: P651583
CATALOG NUMBER: GALN-SA8D-840-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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 CATALOG NUMBER: GALN-SA8D-840-U-T2R-HSS

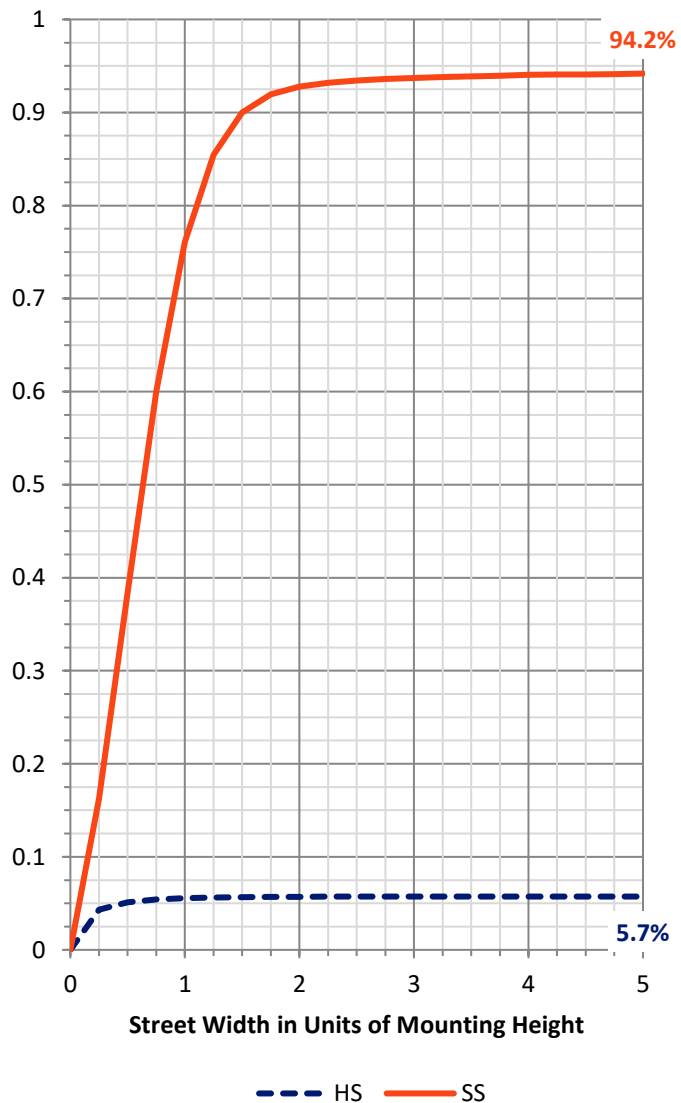
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2425.9	0.0	2425.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	39635.0	0.0	39635.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	42060.9	0.0	42060.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	1.0
10°-20°	1675.9	4.0
20°-30°	3586.0	8.5
30°-40°	6591.0	15.7
40°-50°	10104.1	24.0
50°-60°	10688.8	25.4
60°-70°	6980.1	16.6
70°-80°	1907.2	4.5
80°-90°	102.7	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°	42060.9	100.0
0°-180°	42060.9	100.0

Coefficient of Utilization

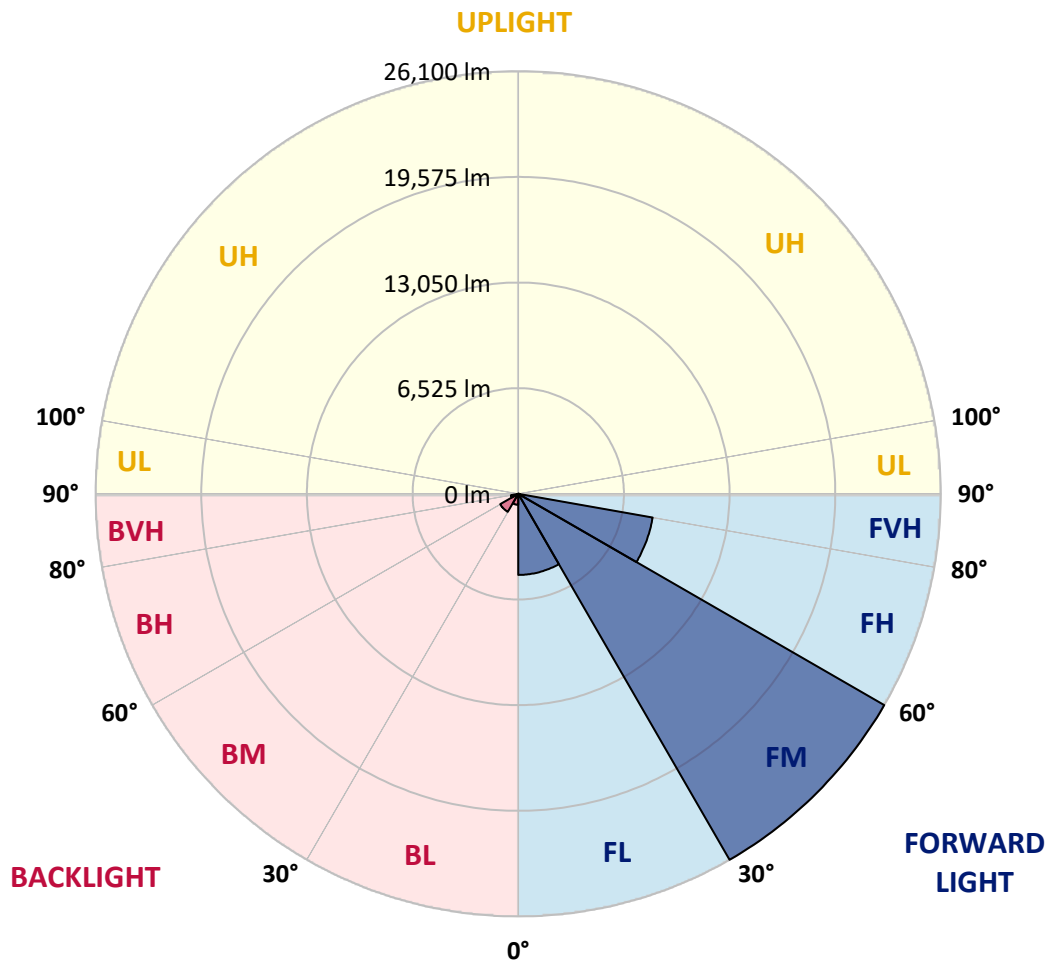


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 CATALOG NUMBER: GALN-SA8D-840-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5009.4	11.9			
FM (30°-60°)	26099.6	62.1			
FH (60°-80°)	8431.8	20.0			G4/12000
FVH (80°-90°)	94.2	0.2			G1/100
BL (0°-30°)	677.6	1.6	B2/1000		
BM (30°-60°)	1284.3	3.1	B2/2500		
BH (60°-80°)	455.5	1.1	B1/500		G1/500
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





REPORT NUMBER: P651583

CATALOG NUMBER: GALN-SA8D-840-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5
2.5°	5154.6	5108.1	5015.2	4983.3	4846.8	4634.8	4448.9	4199.2	4001.7	3981.4	3743.3
5°	6902.8	6798.2	6754.7	6545.6	6217.4	5909.6	5381.1	4980.3	4518.6	4483.8	4004.6
7.5°	8587.1	8442.0	8398.4	8200.9	7817.6	7332.6	6647.3	5918.4	5186.5	5119.8	4356.0
10°	9806.8	9827.1	9748.7	9618.0	9307.3	8813.6	7968.6	6972.5	5930.0	5845.7	4751.0
12.5°	10680.9	10678.0	10692.6	10689.6	10524.1	10149.4	9260.8	8113.8	6748.9	6583.3	5203.9
15°	11250.1	11258.8	11302.4	11453.3	11470.8	11238.5	10498.0	9205.7	7698.5	7492.3	5694.7
17.5°	11825.0	11886.0	11955.7	12098.0	12225.9	12132.9	11610.2	10344.0	8558.1	8404.2	6220.4
20°	12774.7	12858.9	12818.3	12905.4	12972.2	12980.8	12577.2	11395.3	9600.6	9342.2	6821.5
22.5°	14293.5	14290.6	14186.0	14029.2	13898.5	13892.7	13526.8	12475.6	10547.3	10297.5	7425.5
25°	16213.1	16221.7	16018.4	15571.2	15246.0	14848.1	14427.0	13422.3	11560.8	11253.0	8061.5
27.5°	18414.3	18359.0	18051.2	17435.6	16790.9	16111.4	15504.4	14522.9	12635.3	12379.8	8790.4
30°	20391.9	20371.5	20011.4	19259.3	18411.3	17728.9	16849.0	15902.3	14026.3	13712.7	9606.4
32.5°	22233.0	22262.0	21762.6	20984.3	20165.3	19378.4	18449.1	17220.7	15391.2	14946.8	10495.0
35°	23670.4	23699.5	23182.6	22535.0	21692.8	21039.5	20153.7	18626.2	16738.7	16364.0	11517.2
37.5°	24437.1	24474.9	24175.8	23687.9	23162.3	22834.2	22009.4	20435.5	18376.5	18150.0	12725.3
40°	24582.3	24625.9	24495.2	24364.5	24335.5	24570.7	24329.7	22567.0	20647.4	20293.2	14525.8
42.5°	24146.7	24204.8	24262.9	24553.3	25145.7	26008.2	26847.4	25459.3	23571.7	23095.5	16727.0
45°	23002.5	22996.7	23226.1	23978.3	25305.4	27146.6	29478.5	29080.6	27556.0	26989.7	19837.2
47.5°	21045.3	21016.3	21512.8	22584.4	24652.1	27355.6	31624.5	33477.3	32640.9	32118.2	23179.7
50°	18062.8	18205.1	18986.3	20481.9	23028.7	26722.6	32286.7	36361.0	36813.9	36259.3	25880.4
52.5°	14569.3	14563.5	15789.0	17818.9	20624.2	25328.6	31824.9	36883.7	38170.1	37746.2	27210.5
55°	10782.5	10858.1	12132.9	14180.2	17502.4	22784.8	30317.7	36346.4	38687.0	38387.9	28087.5
57°	8020.9	8154.4	9176.7	11343.0	14784.3	20267.0	28311.1	35385.2	38890.4	38727.7	28816.4
57.5°	7486.5	7492.3	8488.4	10457.3	13988.5	19299.9	27736.1	34984.4	38884.6	38794.5	28935.4
60°	4608.7	4753.8	5442.1	7068.4	10239.5	15063.1	23882.5	32681.6	38582.5	38713.2	29443.7
62.5°	2758.8	2819.8	3267.0	4260.2	6600.8	10994.6	19543.9	29734.1	37795.5	38193.3	29408.8
65°	1774.3	1788.9	1992.2	2578.8	4126.6	7431.3	15060.1	25839.7	35759.8	36491.7	28258.8
67.5°	1370.7	1394.0	1475.2	1693.0	2392.9	4628.9	10651.9	21684.2	32466.7	33410.5	25470.9
70°	1216.8	1228.4	1257.5	1327.1	1582.7	2613.6	6626.9	16939.0	26922.9	27190.1	19933.0
72.5°	993.1	1025.1	1115.2	1138.4	1254.5	1632.0	3688.0	11369.1	18089.0	18155.8	11151.3
75°	769.6	775.4	909.0	975.7	1057.1	1123.8	1646.6	5732.5	8688.8	8224.1	4297.9
77.5°	575.0	601.1	662.1	746.3	862.4	804.4	737.6	2160.6	2697.8	2648.5	1248.7
80°	368.8	383.3	461.7	560.4	670.8	525.6	415.3	633.1	592.4	609.8	299.1
82.5°	185.9	188.7	296.2	455.9	426.9	264.2	261.4	258.4	220.7	217.8	139.4
85°	20.4	43.6	191.7	261.4	191.7	87.1	121.9	119.1	116.1	119.1	81.3
87.5°	2.9	2.9	32.0	37.8	26.2	29.0	34.8	37.8	46.4	43.6	34.8
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: P651583

CATALOG NUMBER: GALN-SA8D-840-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5	3522.5
2.5°	3627.1	3510.9	3296.0	3089.8	2935.9	2837.2	2709.4	2662.9	2596.2	2587.4	2555.5
5°	3783.9	3563.2	3188.6	2892.4	2654.3	2474.2	2317.4	2186.7	2082.1	2058.9	2070.5
7.5°	4007.5	3679.4	3156.6	2753.0	2421.9	2114.1	1864.3	1710.4	1600.1	1559.5	1565.3
10°	4260.2	3833.3	3150.8	2604.9	2099.6	1722.0	1449.1	1312.6	1248.7	1225.5	1199.4
12.5°	4559.3	4010.4	3136.3	2375.5	1745.3	1373.6	1179.0	1097.7	1036.7	1019.3	1019.3
15°	4896.1	4199.2	3066.6	2090.9	1417.2	1135.4	1004.7	940.9	920.6	903.1	903.1
17.5°	5247.5	4385.1	2921.4	1739.5	1176.1	972.9	891.5	853.8	824.8	804.4	804.4
20°	5648.2	4568.0	2689.1	1428.8	993.1	868.3	804.4	760.9	737.6	720.2	714.3
22.5°	6028.7	4716.1	2392.9	1173.2	865.4	781.2	723.1	676.7	653.4	644.7	644.7
25°	6423.6	4806.1	2035.7	969.9	789.9	708.5	644.7	606.9	586.6	580.8	577.9
27.5°	6807.0	4858.4	1722.0	848.0	720.2	641.8	580.8	551.8	531.4	525.6	528.6
30°	7271.6	4867.1	1417.2	760.9	659.2	577.9	522.7	496.6	485.0	479.1	476.3
32.5°	7742.1	4855.5	1190.6	708.5	601.1	522.7	476.3	455.9	447.2	438.5	438.5
35°	8270.6	4794.5	1013.5	656.3	546.0	476.3	435.6	418.1	406.5	397.9	394.9
37.5°	8926.9	4762.6	911.9	598.2	496.6	432.7	394.9	377.5	368.8	357.2	354.3
40°	9960.7	4904.9	879.9	546.0	447.2	392.1	357.2	336.9	325.2	313.6	310.7
42.5°	11250.1	5154.6	827.6	493.7	403.7	354.3	319.4	296.2	275.8	261.4	255.6
45°	12919.9	5482.7	746.3	438.5	365.9	313.6	281.7	252.6	226.5	214.9	212.0
47.5°	14671.0	5799.3	673.7	394.9	325.2	278.8	244.0	212.0	188.7	180.1	177.1
50°	15745.5	5863.2	627.3	345.6	284.6	241.0	206.2	177.1	162.6	153.9	153.9
52.5°	16236.3	5761.5	563.4	302.0	246.8	212.0	177.1	153.9	145.2	139.4	136.5
55°	16578.9	5604.7	479.1	261.4	212.0	180.1	156.8	139.4	127.7	121.9	119.1
57°	16779.3	5392.7	415.3	229.4	182.9	156.8	139.4	124.9	113.3	101.7	101.7
57.5°	16788.0	5311.4	397.9	226.5	174.3	151.0	136.5	121.9	107.5	95.8	92.9
60°	16529.5	4753.8	319.4	191.7	139.4	127.7	113.3	95.8	75.5	63.9	61.0
62.5°	15699.0	4045.3	264.2	162.6	113.3	98.7	81.3	72.6	52.3	37.8	37.8
65°	14441.6	3281.5	226.5	130.7	92.9	72.6	55.2	52.3	32.0	17.4	14.5
67.5°	12623.7	2555.5	191.7	107.5	78.4	52.3	37.8	34.8	17.4	5.8	0.0
70°	9618.0	1742.4	159.7	87.1	58.1	37.8	26.2	20.4	11.6	2.9	0.0
72.5°	5543.7	958.3	133.6	66.8	43.6	29.0	20.4	11.6	11.6	0.0	0.0
75°	1980.6	412.3	101.7	49.4	34.8	23.2	14.5	5.8	8.7	2.9	0.0
77.5°	630.2	220.7	66.8	37.8	29.0	17.4	11.6	5.8	5.8	2.9	0.0
80°	185.9	116.1	40.6	32.0	20.4	14.5	8.7	2.9	5.8	2.9	0.0
82.5°	101.7	58.1	32.0	23.2	20.4	11.6	8.7	2.9	2.9	2.9	0.0
85°	52.3	34.8	26.2	23.2	20.4	11.6	8.7	2.9	0.0	2.9	2.9
87.5°	29.0	26.2	26.2	23.2	20.4	14.5	8.7	2.9	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)