

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: P647546

Luminaire Tested: **GALN-SA7D-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 34528.8 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

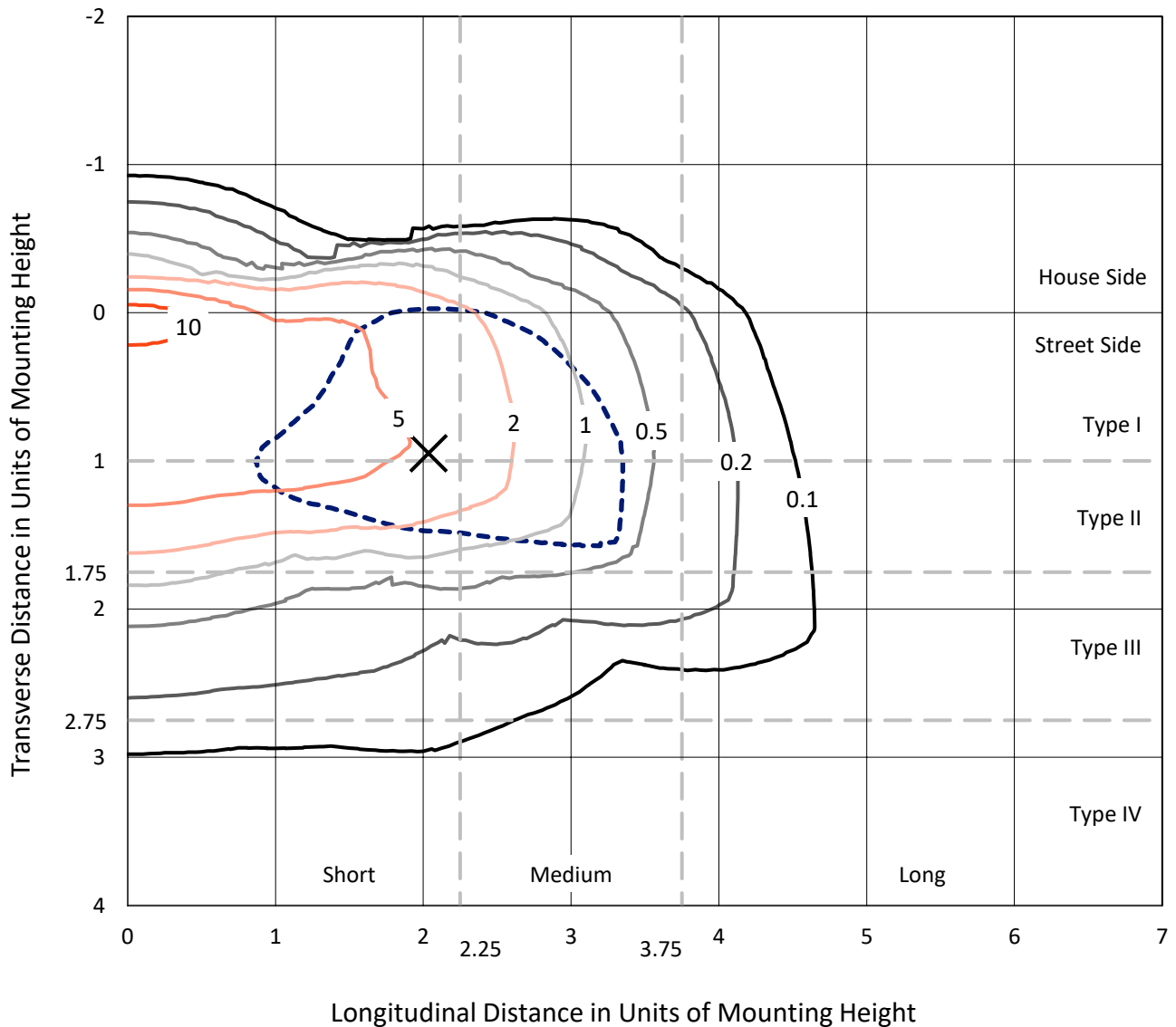
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

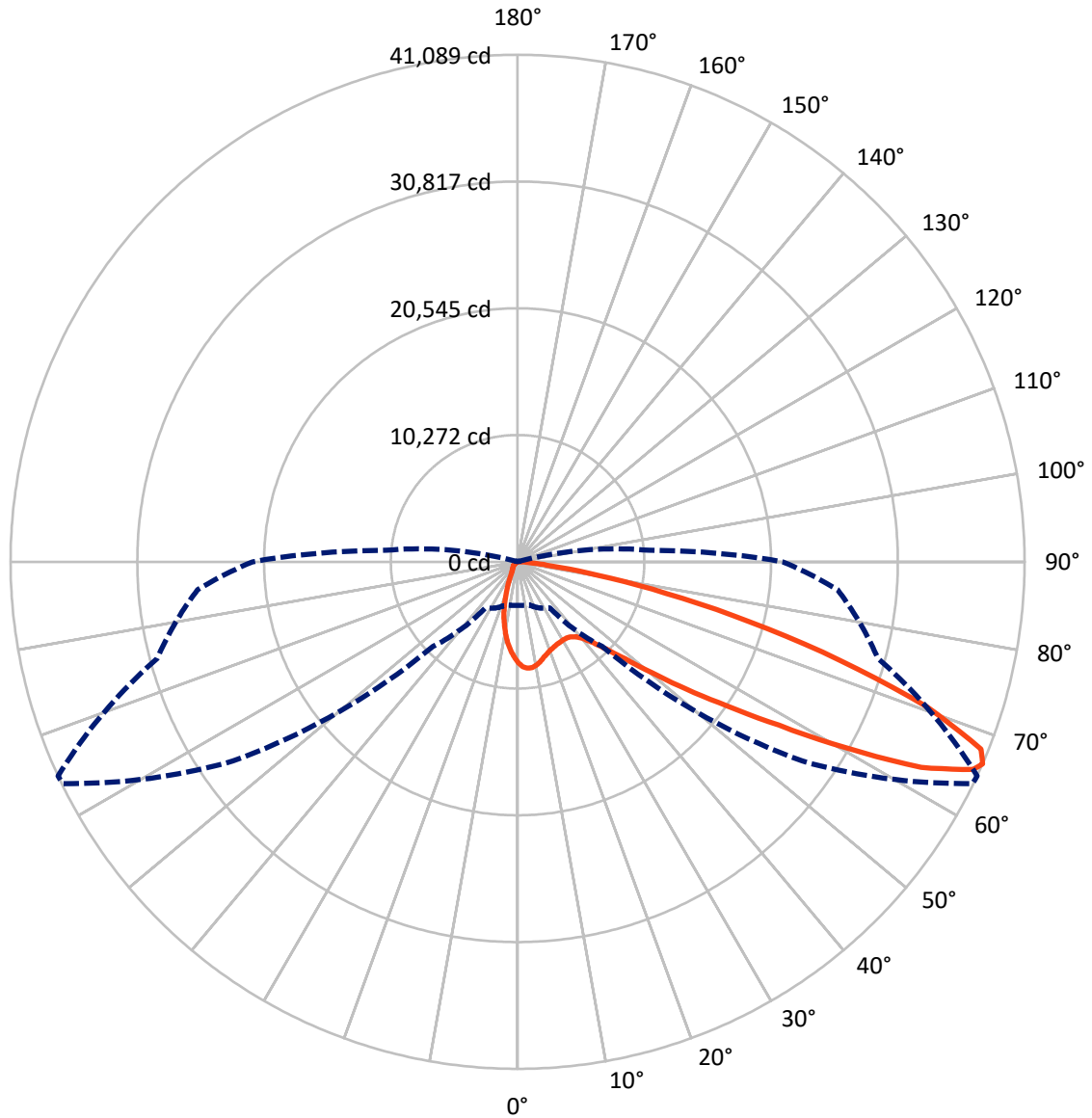
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7D-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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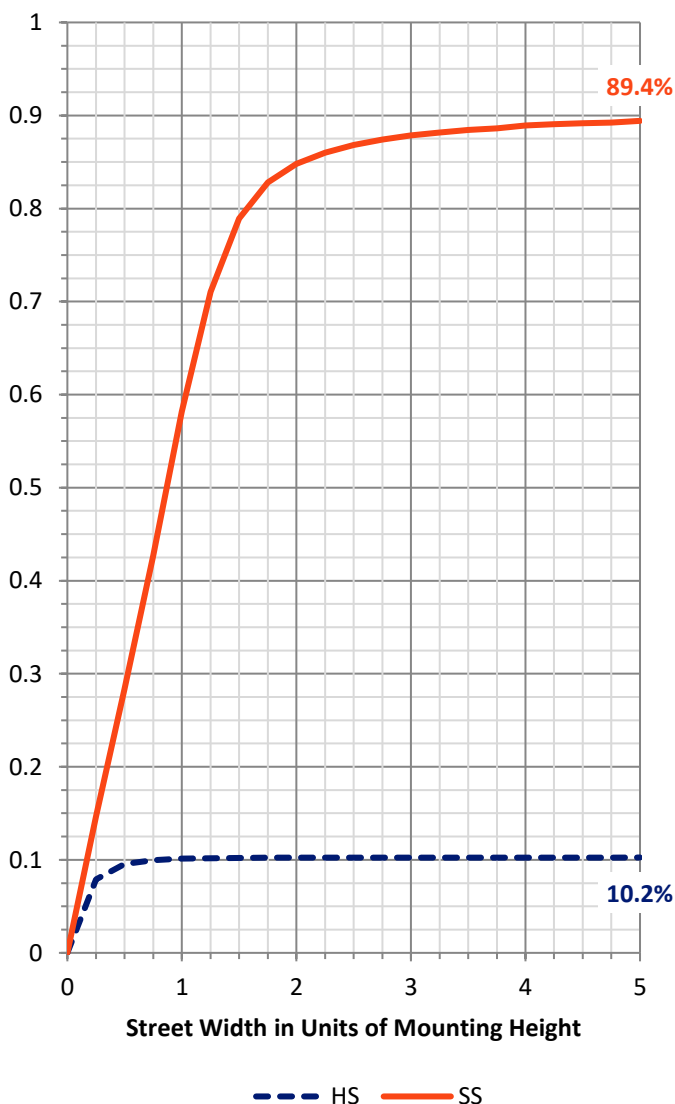
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3570.8	0.0	3570.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30958.0	0.0	30958.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	34528.8	0.0	34528.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.7	1.9
10°-20°	1459.1	4.2
20°-30°	2090.1	6.1
30°-40°	3052.8	8.8
40°-50°	5119.1	14.8
50°-60°	8542.9	24.7
60°-70°	9068.0	26.3
70°-80°	4106.9	11.9
80°-90°	420.2	1.2
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°	34528.8	100.0
0°-180°	34528.8	100.0

Coefficient of Utilization

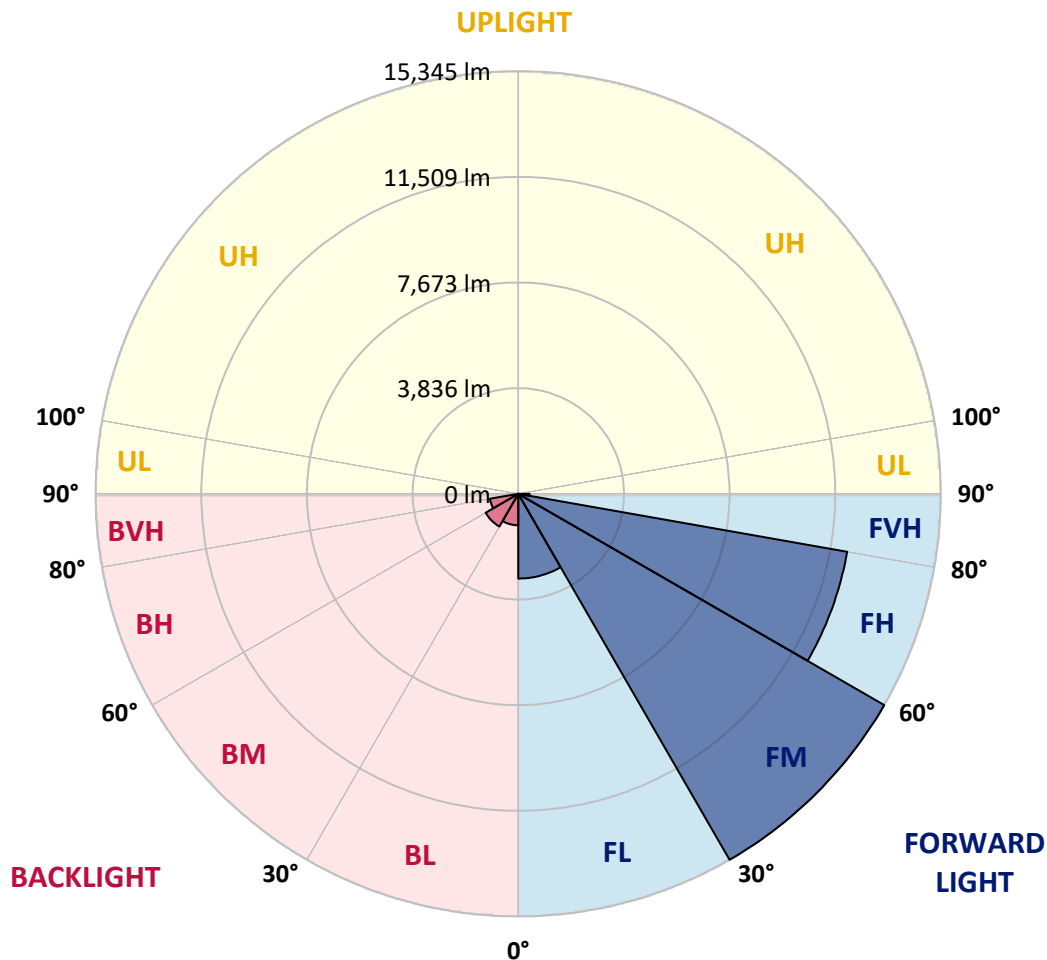


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3076.6	8.9			
FM (30°-60°)	15345.4	44.4			
FH (60°-80°)	12129.2	35.1			G5
FVH (80°-90°)	406.8	1.2			G3/500
BL (0°-30°)	1142.2	3.3	B3/2500		
BM (30°-60°)	1369.4	4.0	B2/2500		
BH (60°-80°)	1045.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1
2.5°	8628.8	8638.1	8649.8	8666.1	8677.8	8642.8	8593.8	8537.8	8526.2	8407.2	8262.7
5°	8167.1	8181.0	8283.7	8339.7	8465.6	8579.8	8652.2	8661.5	8656.8	8544.9	8314.0
7.5°	7509.4	7549.1	7649.3	7747.2	7982.8	8199.7	8456.2	8635.8	8647.5	8617.1	8330.3
10°	6975.4	7001.0	7052.3	7245.9	7441.8	7772.9	8132.1	8470.3	8498.2	8619.5	8316.3
12.5°	6557.9	6595.2	6658.2	6807.4	7043.0	7355.5	7763.6	8218.4	8276.6	8575.2	8276.6
15°	6266.3	6285.1	6348.0	6494.9	6723.5	7012.6	7425.4	7954.8	8006.1	8516.8	8269.7
17.5°	6128.8	6149.8	6194.1	6310.7	6499.6	6767.8	7171.3	7742.6	7807.9	8479.6	8295.3
20°	6166.1	6184.8	6187.1	6247.7	6376.0	6602.2	6984.7	7544.4	7628.3	8456.2	8337.3
22.5°	6378.3	6380.7	6352.6	6324.7	6369.0	6532.3	6870.4	7418.5	7504.7	8451.5	8386.2
25°	6695.5	6702.5	6655.8	6557.9	6469.3	6553.2	6844.8	7336.8	7413.8	8439.9	8416.5
27.5°	7133.9	7131.6	7117.6	6954.4	6702.5	6646.5	6865.7	7292.5	7357.8	8407.2	8428.2
30°	7747.2	7728.6	7698.3	7514.1	7129.3	6872.7	6954.4	7264.5	7325.1	8360.6	8397.9
32.5°	8351.3	8421.2	8416.5	8241.7	7761.3	7276.2	7138.6	7301.9	7346.1	8330.3	8353.6
35°	9055.6	9053.3	9232.8	9167.5	8605.5	7791.6	7453.5	7425.4	7460.4	8351.3	8332.6
37.5°	9708.6	9769.2	10049.0	10116.7	9603.7	8519.2	7898.8	7691.3	7702.9	8493.5	8384.0
40°	10522.5	10639.1	11056.5	11282.7	10830.3	9599.0	8556.5	8178.7	8181.0	8843.4	8577.5
42.5°	11572.0	11756.2	12145.7	12523.5	12280.9	10877.0	9543.0	8950.6	8946.0	9459.0	9020.6
45°	12847.6	12975.9	13419.0	14018.3	13864.4	12661.0	10979.5	10147.0	10086.4	10468.9	9806.5
47.5°	13948.4	14123.3	14573.4	15256.7	15956.3	14839.2	12696.0	11791.1	11751.5	12075.7	11154.5
50°	14428.7	14582.7	15056.1	16014.6	17710.1	17698.4	15252.0	14190.9	14123.3	14298.1	13239.4
52.5°	13901.7	14046.3	14524.4	15718.4	18535.6	21182.6	18955.4	17201.6	17120.0	16896.1	15730.1
55°	12096.6	12215.6	12922.2	14293.5	18218.5	23505.3	24058.1	20921.4	20604.2	19734.3	18549.6
57.5°	9631.6	9571.0	10009.4	11602.3	16357.4	24284.3	29295.9	25555.2	24988.6	22187.7	20935.4
60°	6674.5	6861.0	7038.3	8087.8	12299.5	22934.0	32553.9	31380.8	30634.6	24601.4	23220.8
62.5°	4906.7	5030.4	5147.0	5632.0	7733.3	18311.7	33130.0	37365.1	36702.7	27164.4	25401.3
65°	3880.6	3889.9	3936.6	4414.7	5095.7	11907.8	30361.8	40739.6	40569.3	29631.8	26285.2
66°	3535.5	3537.8	3610.1	4123.2	4573.3	9696.9	28143.9	40996.2	41089.4	30224.1	26026.4
67.5°	3090.0	3080.7	3185.6	3705.7	4165.2	6991.6	24174.7	39956.0	40508.7	30678.9	25095.9
70°	2395.0	2383.5	2511.7	3108.7	3836.3	4664.3	16068.3	34307.7	35198.5	29748.4	22204.0
72.5°	1595.1	1604.5	1823.7	2453.4	3661.4	4106.8	9666.6	26098.6	27357.9	24566.5	17467.5
75°	930.5	946.8	1196.3	1823.7	3178.7	3915.6	5471.1	18610.3	19414.8	16963.8	10881.6
77.5°	487.4	494.4	669.3	1203.4	2437.1	3635.8	3645.1	11889.1	12266.9	8244.0	4307.4
80°	258.9	251.9	359.2	725.3	1676.8	3192.7	2957.1	6294.4	6543.9	2448.7	1089.1
82.5°	98.0	107.3	191.2	475.8	991.1	2292.5	2546.6	2782.2	2695.9	538.7	457.1
85°	18.6	23.3	81.6	282.2	499.1	958.5	1877.3	1364.3	1264.0	202.9	263.6
87.5°	2.3	4.7	23.3	67.7	72.3	324.2	555.1	377.8	326.5	74.6	109.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1	8188.1
2.5°	8192.7	8129.7	7919.8	7712.3	7500.0	7308.8	7178.2	6966.0	6912.4	6835.4	6791.1
5°	8176.4	8029.4	7626.0	7185.2	6774.8	6331.7	5993.6	5667.0	5492.1	5403.5	5370.8
7.5°	8129.7	7896.6	7266.9	6576.6	5918.9	5256.6	4680.5	4242.1	3959.9	3766.4	3635.8
10°	8036.5	7714.6	6849.4	5900.2	4906.7	4032.2	3302.3	2747.2	2318.1	2182.8	2187.5
12.5°	7940.8	7511.7	6383.0	5149.3	3918.0	2814.9	2040.6	1602.2	1397.0	1329.3	1315.3
15°	7852.2	7318.2	5925.9	4421.7	2917.5	1823.7	1315.3	1161.4	1105.4	1093.8	1091.4
17.5°	7805.6	7138.6	5438.5	3589.1	2036.0	1238.3	1054.1	1012.1	995.8	984.2	979.5
20°	7766.0	6982.3	4972.0	2810.2	1392.3	1014.5	944.5	904.8	876.9	865.2	858.2
22.5°	7737.9	6821.4	4489.3	2175.9	1065.7	900.2	837.3	785.9	746.3	732.3	722.9
25°	7696.0	6644.1	4001.9	1590.5	897.9	799.9	727.6	667.0	615.7	590.0	585.4
27.5°	7635.3	6443.6	3467.8	1177.7	802.3	711.3	622.6	548.0	496.7	468.8	471.1
30°	7537.4	6233.7	2933.8	935.1	725.3	620.4	524.7	452.4	403.5	382.5	380.1
32.5°	7420.8	5979.5	2444.1	802.3	655.3	538.7	438.4	375.4	338.2	321.8	319.5
35°	7311.2	5723.0	1945.0	720.6	583.0	464.1	368.5	314.8	286.8	272.9	275.2
37.5°	7250.5	5494.5	1515.9	655.3	524.7	398.8	317.2	270.5	244.8	233.2	230.9
40°	7290.2	5307.9	1205.7	597.0	459.5	342.8	272.9	233.2	207.6	191.2	191.2
42.5°	7476.7	5226.3	972.5	541.1	398.8	296.2	237.9	200.5	172.6	156.3	158.6
45°	8045.8	5312.6	813.9	489.8	342.8	256.5	205.2	165.6	139.9	128.3	125.9
47.5°	8990.2	5636.7	704.3	436.1	293.9	219.2	172.6	137.6	112.0	102.7	100.3
50°	10641.4	6306.0	622.6	382.5	249.5	186.6	142.3	109.6	88.6	79.3	79.3
52.5°	12912.9	7766.0	564.4	321.8	209.9	158.6	116.6	88.6	70.0	63.0	60.6
55°	15287.0	9305.1	534.1	270.5	174.9	130.6	93.3	70.0	53.6	46.7	44.3
57.5°	17570.1	10513.2	499.1	219.2	139.9	100.3	72.3	53.6	37.3	32.7	30.3
60°	19759.9	11490.3	424.5	174.9	109.6	72.3	53.6	37.3	25.7	21.0	21.0
62.5°	21718.9	12059.4	333.5	139.9	83.9	51.3	35.0	28.0	18.6	14.0	14.0
65°	21947.5	11320.1	251.9	107.3	60.6	32.7	21.0	21.0	14.0	9.3	9.3
66°	21488.0	10692.7	221.6	98.0	53.6	28.0	18.6	16.3	11.7	7.0	7.0
67.5°	20461.9	9622.3	191.2	83.9	44.3	21.0	14.0	14.0	9.3	4.7	4.7
70°	17679.7	7859.2	151.6	63.0	32.7	16.3	9.3	9.3	7.0	4.7	4.7
72.5°	13475.0	5867.6	123.6	46.7	23.3	11.7	7.0	7.0	7.0	4.7	4.7
75°	8127.4	3160.0	95.6	35.0	21.0	9.3	4.7	7.0	9.3	7.0	4.7
77.5°	2994.4	1075.1	74.6	28.0	16.3	9.3	4.7	4.7	9.3	7.0	7.0
80°	734.6	279.8	53.6	23.3	16.3	9.3	4.7	4.7	9.3	9.3	9.3
82.5°	340.5	118.9	37.3	21.0	16.3	9.3	4.7	4.7	7.0	9.3	9.3
85°	195.9	56.0	30.3	23.3	16.3	9.3	4.7	4.7	7.0	9.3	9.3
87.5°	79.3	28.0	28.0	23.3	18.6	11.7	4.7	4.7	4.7	7.0	7.0
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)