

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: P647084

Luminaire Tested: **GALN-SA7C-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27609.3 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

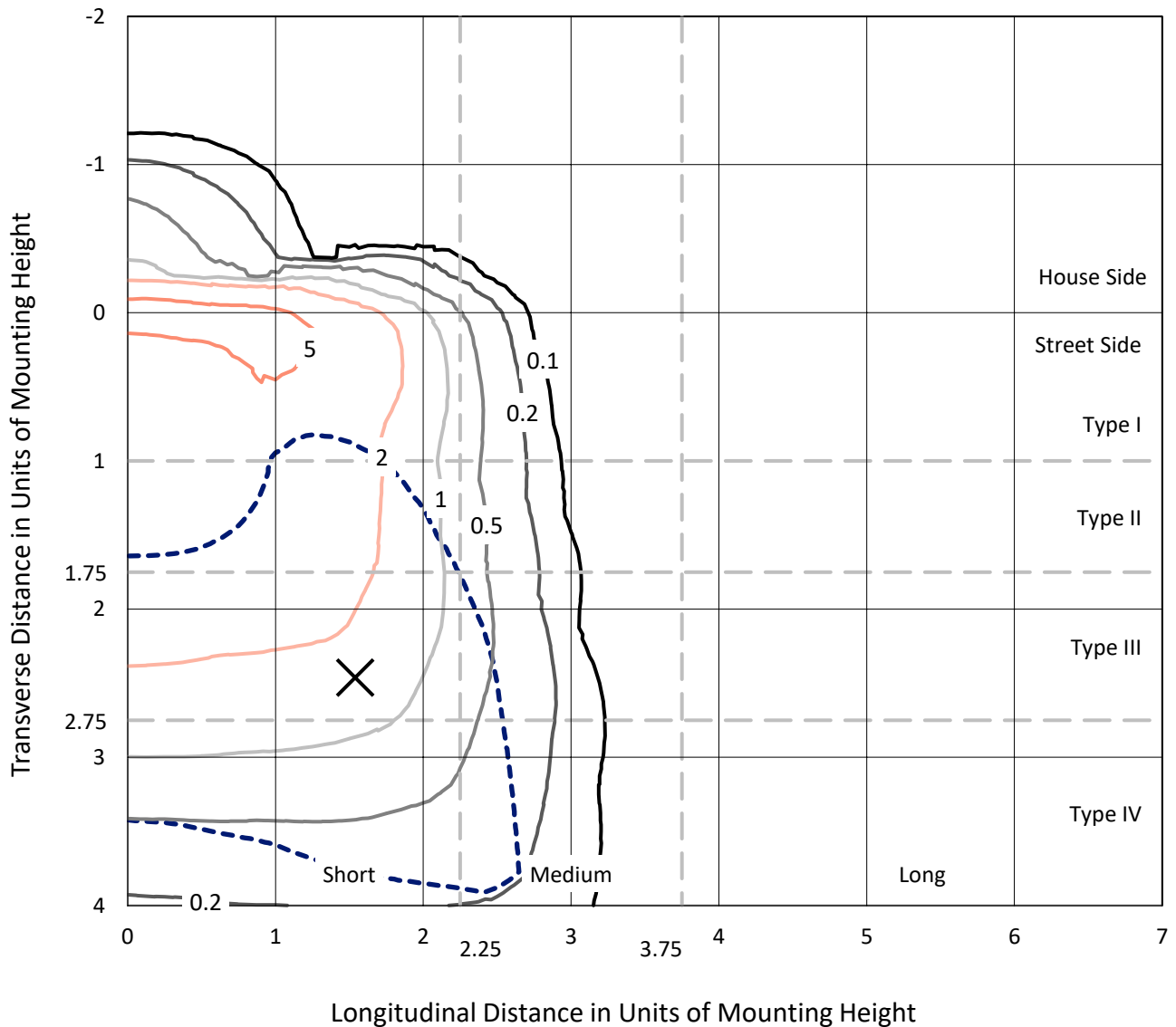
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647084
 CATALOG NUMBER: GALN-SA7C-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

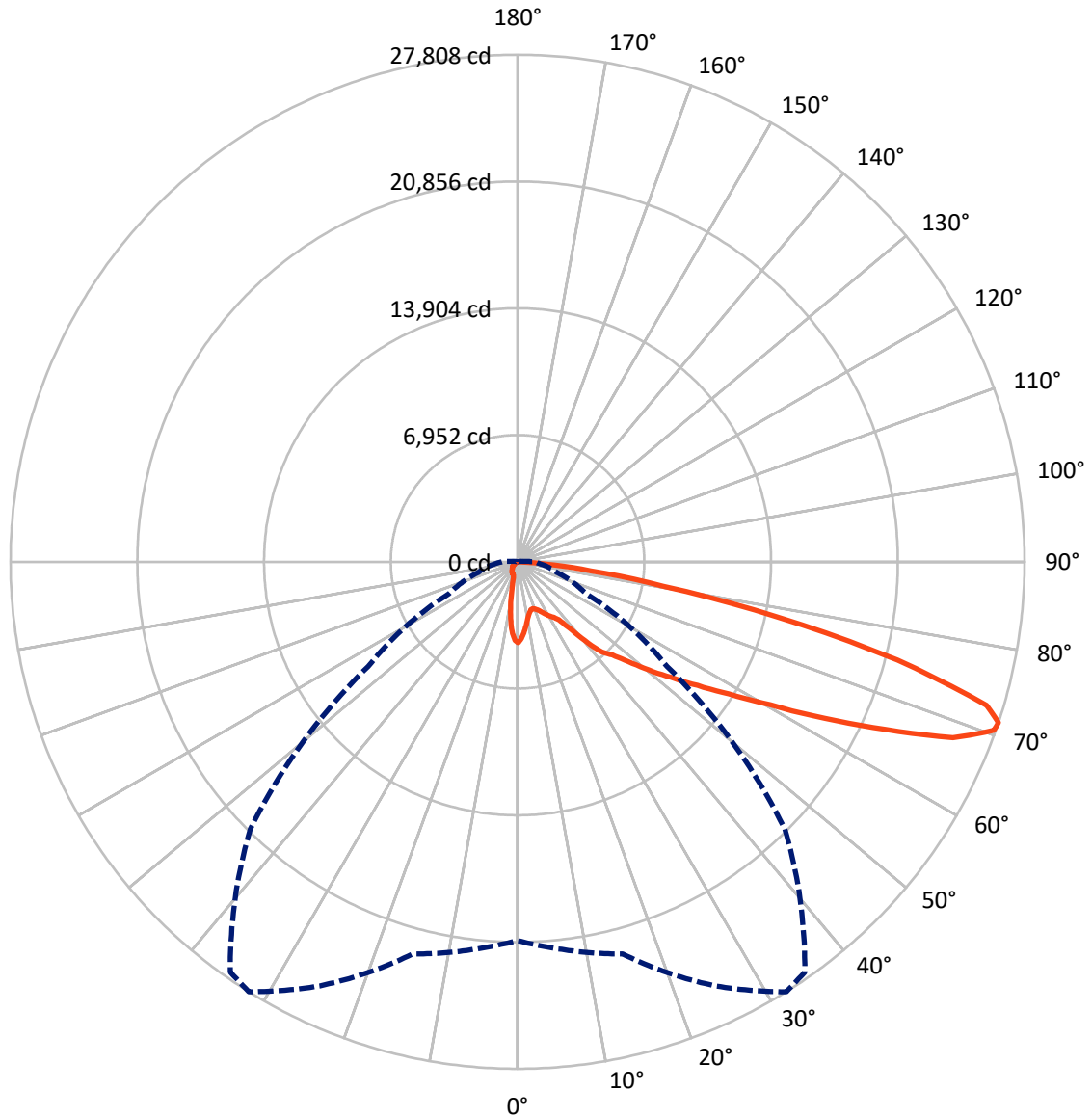
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P647084
CATALOG NUMBER: GALN-SA7C-835-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P647084
 CATALOG NUMBER: GALN-SA7C-835-U-T4FT-HSS

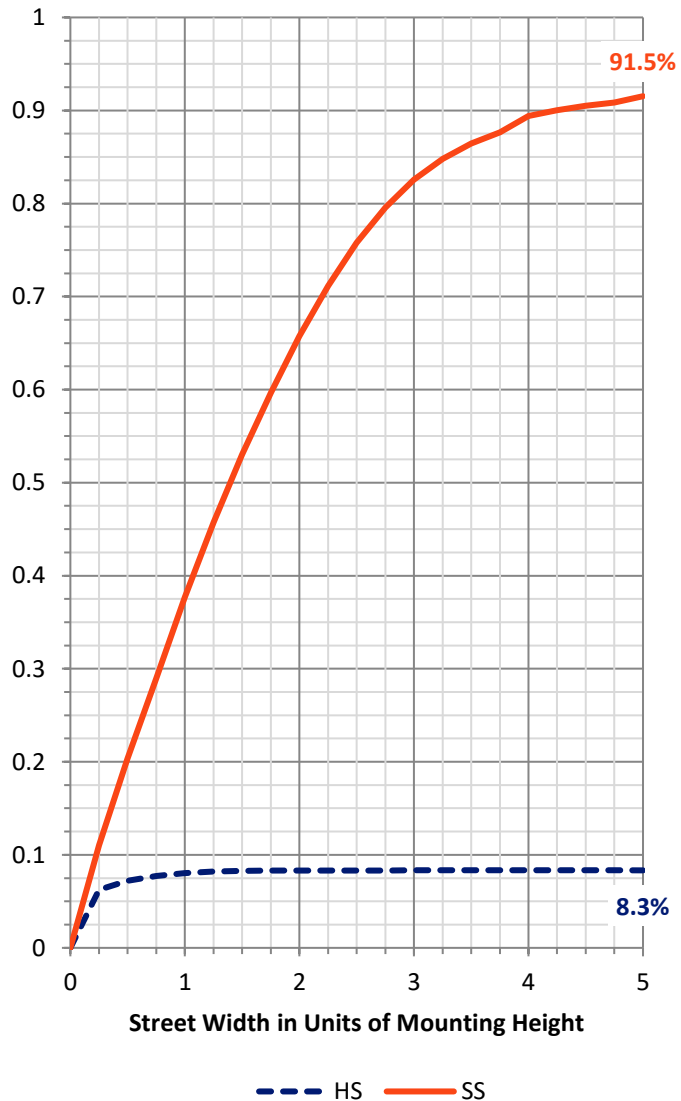
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2312.6	0.0	2312.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25296.8	0.0	25296.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	27609.3	0.0	27609.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	1.3
10°-20°	783.6	2.8
20°-30°	1219.0	4.4
30°-40°	2030.8	7.4
40°-50°	3777.6	13.7
50°-60°	6065.1	22.0
60°-70°	8157.9	29.5
70°-80°	4840.2	17.5
80°-90°	374.1	1.4
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°	27609.3	100.0
0°-180°	27609.3	100.0

Coefficient of Utilization

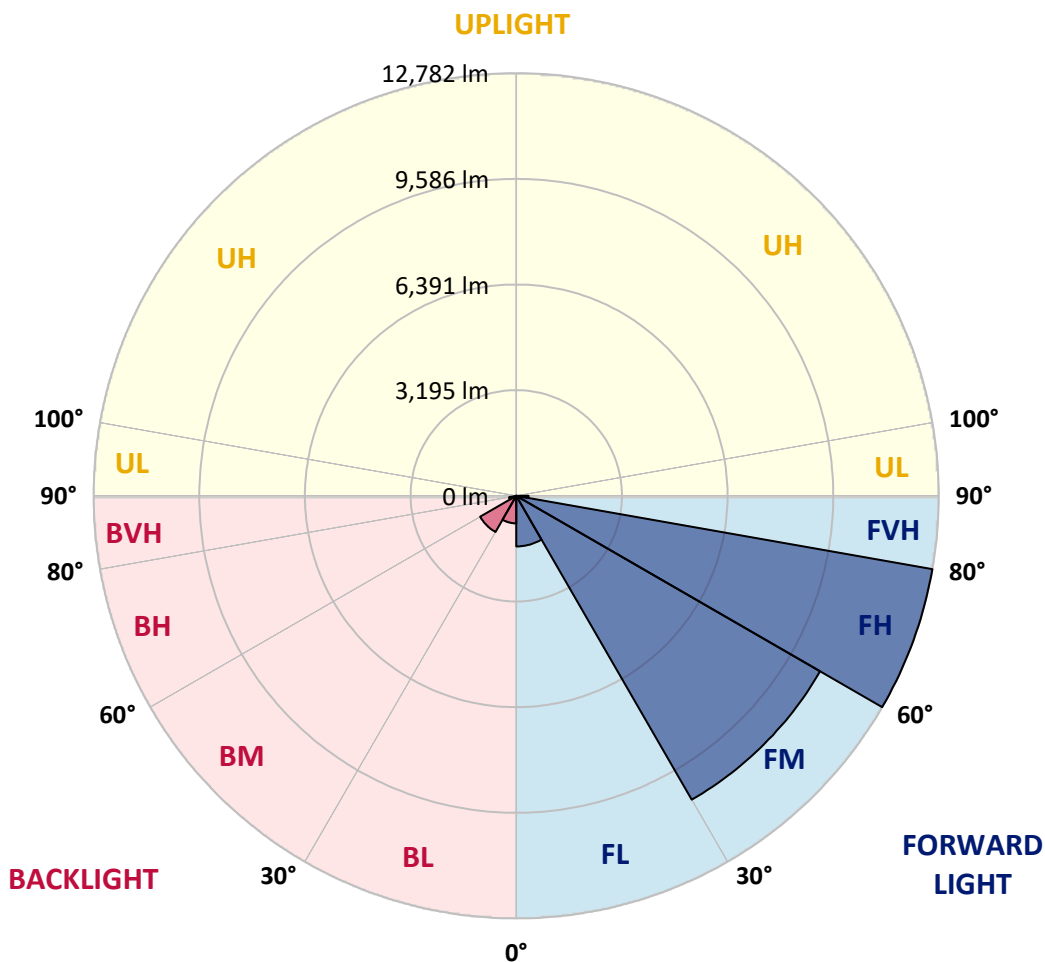


REPORT NUMBER: P647084
 CATALOG NUMBER: GALN-SA7C-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.3	5.5			
FM (30°-60°)	10612.0	38.4			
FH (60°-80°)	12781.8	46.3			G5
FVH (80°-90°)	372.7	1.3			G3/500
BL (0°-30°)	833.3	3.0	B2/1000		
BM (30°-60°)	1261.6	4.6	B2/2500		
BH (60°-80°)	216.3	0.8	B1/500		G1/500
BVH (80°-90°)	1.4	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-G5
 Type IV Short





REPORT NUMBER: P647084

CATALOG NUMBER: GALN-SA7C-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0
2.5°	4117.9	4160.2	4153.9	4168.8	4204.8	4219.6	4259.9	4304.4	4365.9	4408.2	4435.8
5°	3687.6	3719.4	3723.7	3797.9	3833.9	3874.1	3992.8	4122.1	4266.3	4380.7	4457.0
7.5°	3227.8	3244.7	3278.7	3376.1	3467.2	3507.5	3687.6	3912.3	4139.1	4353.1	4490.9
10°	2848.4	2867.5	2928.9	3032.8	3117.5	3170.5	3420.6	3702.5	4020.4	4338.3	4539.6
12.5°	2632.2	2642.8	2666.1	2759.4	2867.5	2924.7	3193.9	3516.0	3925.0	4344.6	4622.3
15°	2617.4	2613.2	2585.6	2623.8	2721.2	2780.6	3043.4	3388.8	3840.2	4365.9	4719.8
17.5°	2695.8	2685.2	2619.5	2619.5	2700.0	2748.8	2979.8	3321.0	3797.9	4414.6	4857.5
20°	2816.6	2799.6	2691.6	2683.1	2761.5	2812.4	3017.9	3325.2	3806.3	4505.7	5041.9
22.5°	2969.2	2950.1	2786.9	2791.2	2876.0	2926.8	3128.2	3401.5	3859.3	4618.1	5239.0
25°	3168.4	3147.2	2954.3	2945.9	3034.9	3079.4	3291.3	3537.2	3933.5	4757.9	5497.6
27.5°	3433.3	3388.8	3157.8	3145.1	3240.4	3297.7	3488.4	3719.4	4064.9	4950.8	5845.2
30°	3651.6	3602.9	3382.5	3348.6	3450.3	3494.8	3691.9	3965.3	4323.5	5287.8	6326.2
32.5°	3937.7	3865.7	3607.1	3518.1	3626.2	3683.4	3986.5	4423.1	4707.1	5643.8	6898.5
35°	4582.0	4537.5	4221.7	3910.1	3903.8	3975.9	4421.0	4885.1	5101.2	6199.1	7678.3
37.5°	5503.9	5472.2	5137.3	4719.8	4599.0	4565.0	4948.6	5393.7	5730.7	6962.0	8585.4
40°	6574.2	6500.0	6192.7	5838.8	5681.9	5582.3	5571.7	6150.3	6553.0	7998.4	9530.7
42.5°	7341.4	7205.8	6832.8	6807.3	6773.4	6669.6	6368.6	7256.6	7614.8	9113.2	10541.6
45°	8146.7	7941.2	7385.9	7290.5	7277.8	7271.5	7572.4	8566.3	8771.9	10321.2	11580.1
47.5°	8771.9	8608.8	8153.1	8110.7	8163.7	8307.8	9164.0	9956.6	9914.3	11397.8	12451.1
50°	9604.8	9481.9	8975.4	9055.9	9329.4	9564.6	10959.1	11472.0	10853.2	12245.6	13084.8
52.5°	10588.2	10361.4	9890.9	10109.2	10528.8	10921.0	12864.4	12798.7	11512.3	12883.5	13557.4
55°	11440.2	11279.1	11118.1	11344.8	11972.1	12461.7	14585.3	13792.7	11991.3	13396.3	13765.1
57.5°	12881.4	12843.2	12677.9	12908.9	13669.8	14178.4	16126.0	14564.1	12298.5	13663.4	13521.4
60°	15013.4	14951.9	14644.6	14939.2	15931.1	16730.0	17546.0	15257.1	12368.5	13559.5	12819.9
62.5°	17577.8	17368.0	17105.2	17539.7	18900.3	19252.1	18883.3	15668.3	12107.8	12733.0	11128.6
65°	19972.7	19756.5	19762.8	20678.4	22159.8	22399.3	20443.2	15606.8	11344.8	10662.4	8208.2
67.5°	21805.9	21769.8	22028.5	23815.0	25752.1	25586.8	21837.7	14687.0	9083.5	6911.1	4361.6
70°	21899.1	21969.1	22710.8	25726.6	27693.4	27430.6	21719.0	11938.2	5662.9	3179.0	1718.8
71°	20771.7	21242.2	22267.9	25667.3	27807.9	27466.6	20718.6	9999.1	4153.9	2216.8	1239.8
72.5°	17700.7	17948.7	20165.5	24156.3	26902.9	26173.8	18181.8	7008.6	2659.8	1356.4	712.1
75°	9749.0	10359.3	13504.4	18951.1	21517.6	20877.6	11849.2	3329.5	1326.7	741.7	294.6
77.5°	4641.4	4522.7	6589.0	11270.7	14589.6	14555.7	5970.2	1479.3	773.5	502.3	148.4
80°	1326.7	1492.0	2522.0	5357.7	8100.1	8189.2	2293.1	714.3	536.2	392.0	76.3
82.5°	400.6	409.0	926.1	2369.4	4028.8	3797.9	860.4	364.6	385.7	311.6	44.5
85°	69.9	86.9	273.4	835.0	1536.6	1165.7	216.2	173.7	254.3	205.5	25.4
87.5°	4.2	6.3	91.1	95.4	135.6	78.4	38.1	25.4	55.1	55.1	14.8
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: P647084

CATALOG NUMBER: GALN-SA7C-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0	4440.0
2.5°	4454.9	4467.6	4459.1	4440.0	4408.2	4370.1	4319.2	4276.8	4240.8	4221.7	4245.0
5°	4482.4	4499.4	4457.0	4361.6	4217.5	4060.6	3882.7	3744.9	3636.8	3602.9	3590.1
7.5°	4524.8	4535.4	4421.0	4209.0	3903.8	3533.0	3208.7	2935.3	2723.4	2659.8	2566.5
10°	4579.9	4573.5	4357.4	3963.2	3427.0	2869.6	2367.3	1994.3	1712.4	1610.7	1602.3
12.5°	4664.6	4630.7	4276.8	3628.3	2859.0	2129.9	1509.0	1180.5	1002.5	943.1	930.4
15°	4770.7	4690.1	4149.7	3236.2	2189.3	1375.4	930.4	830.8	807.4	803.2	799.0
17.5°	4895.7	4768.5	3982.3	2755.1	1538.7	892.2	777.8	775.6	777.8	773.5	771.4
20°	5065.2	4851.2	3783.0	2185.0	1017.3	752.4	741.7	741.7	743.8	741.7	741.7
22.5°	5245.4	4948.6	3537.2	1667.9	767.2	714.3	712.1	716.4	720.6	718.5	718.5
25°	5467.9	5075.8	3212.9	1142.3	686.7	682.5	684.6	693.0	701.5	703.6	701.5
27.5°	5790.1	5232.6	2865.3	786.3	629.5	633.7	654.9	676.0	688.8	690.9	690.9
30°	6152.4	5406.5	2411.8	637.9	582.8	582.8	608.2	648.5	676.0	680.3	682.5
32.5°	6618.7	5607.8	1909.5	574.3	538.3	534.1	557.4	606.1	657.0	671.8	671.8
35°	7195.1	5845.2	1420.0	534.1	506.5	496.0	508.6	548.9	614.6	657.0	661.2
37.5°	7871.3	6069.8	1038.5	498.1	476.8	462.0	470.5	502.3	555.3	618.9	635.8
40°	8496.4	6269.0	775.6	468.4	447.2	436.6	442.9	457.7	502.3	561.6	572.2
42.5°	9178.9	6423.7	616.7	436.6	417.5	413.3	413.3	419.6	449.3	483.2	485.3
45°	9859.1	6478.9	517.1	398.5	385.7	389.9	387.8	383.6	396.4	392.0	392.0
47.5°	10344.5	6413.1	428.1	362.4	362.4	368.8	358.1	343.3	337.0	311.6	313.7
50°	10677.2	6173.6	351.8	320.0	337.0	345.5	324.2	301.0	277.7	250.1	243.7
52.5°	10815.0	5747.6	288.2	264.9	298.8	309.4	284.0	256.4	220.4	197.1	190.7
55°	10726.0	5222.1	239.5	216.2	252.2	264.9	239.5	207.7	167.4	142.0	137.7
57.5°	10333.9	4594.7	203.4	171.6	201.3	209.8	192.9	158.9	118.7	93.3	93.3
60°	9655.7	3946.2	165.3	135.6	150.5	163.2	146.3	114.5	80.6	57.2	53.0
62.5°	8280.2	3204.4	133.5	105.9	105.9	116.6	101.7	82.7	50.9	29.7	27.6
65°	5978.7	2197.7	105.9	78.4	76.3	76.3	63.6	55.1	29.7	12.7	8.5
67.5°	3249.0	1239.8	84.8	59.4	53.0	50.9	40.2	31.8	12.7	2.1	0.0
70°	1277.9	476.8	65.7	40.2	33.9	31.8	21.2	14.8	8.5	0.0	0.0
71°	866.8	328.5	57.2	33.9	27.6	23.3	17.0	12.7	6.3	0.0	0.0
72.5°	496.0	203.4	44.5	25.4	21.2	17.0	12.7	8.5	6.3	0.0	0.0
75°	216.2	103.8	27.6	19.1	14.8	10.6	8.5	6.3	2.1	0.0	0.0
77.5°	110.2	57.2	19.1	14.8	8.5	6.3	4.2	2.1	0.0	0.0	0.0
80°	61.5	29.7	12.7	8.5	6.3	4.2	2.1	2.1	0.0	0.0	0.0
82.5°	33.9	17.0	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	4.2	0.0	0.0	0.0	0.0	2.1	2.1	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)