

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: P458942

Luminaire Tested: **GALN-SA4C-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458942  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20284 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

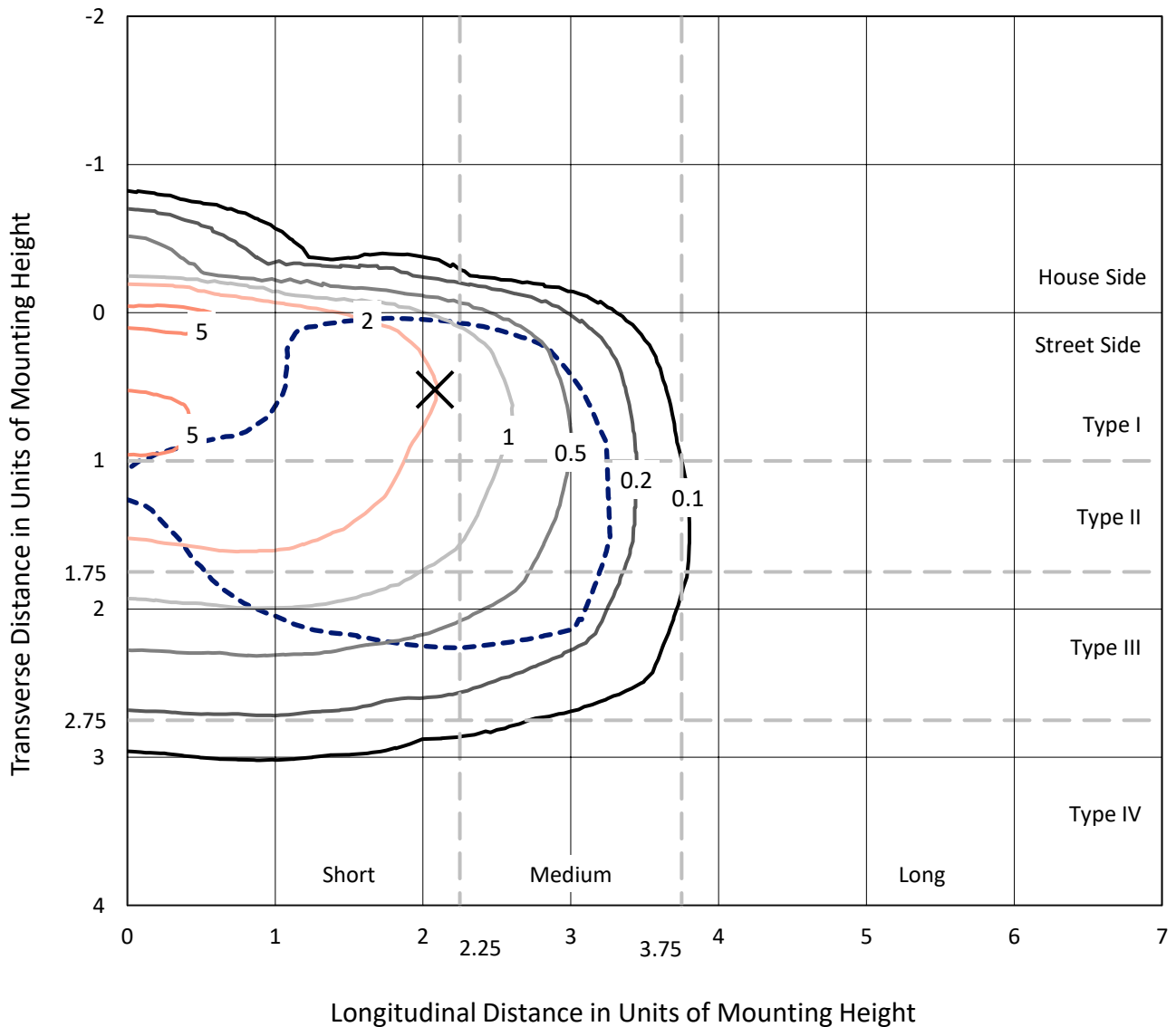
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

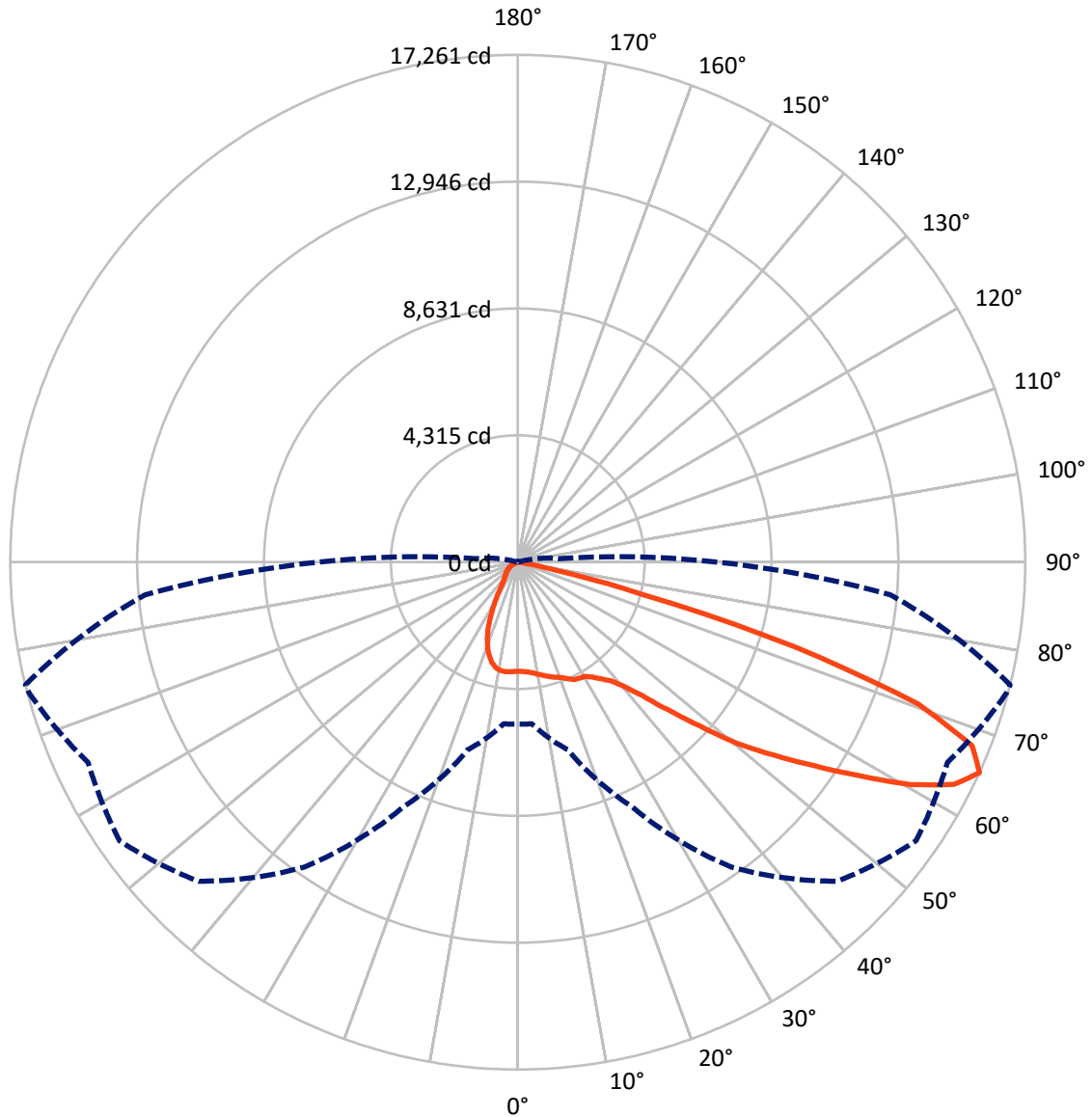
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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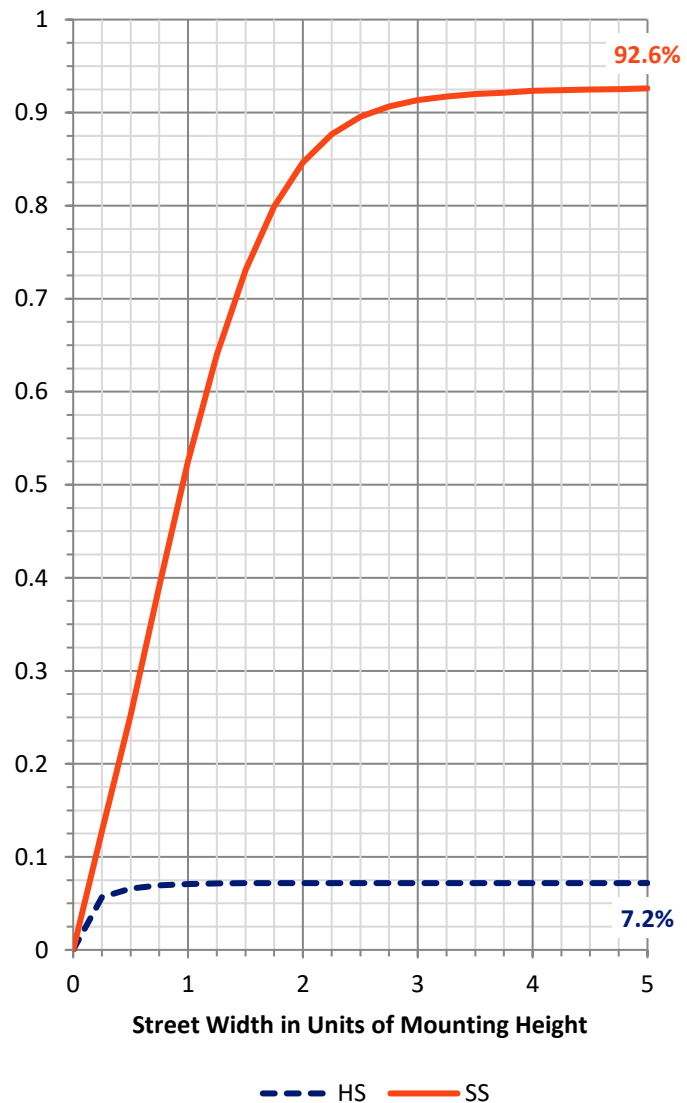
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1464.9	0.0	1464.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	18819.1	0.0	18819.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	20284.0	0.0	20284.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.7	1.5
10°-20°	680.6	3.4
20°-30°	1096.7	5.4
30°-40°	1906.9	9.4
40°-50°	3151.0	15.5
50°-60°	4867.7	24.0
60°-70°	5944.2	29.3
70°-80°	2256.0	11.1
80°-90°	75.3	0.4
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°	20284.0	100.0
0°-180°	20284.0	100.0



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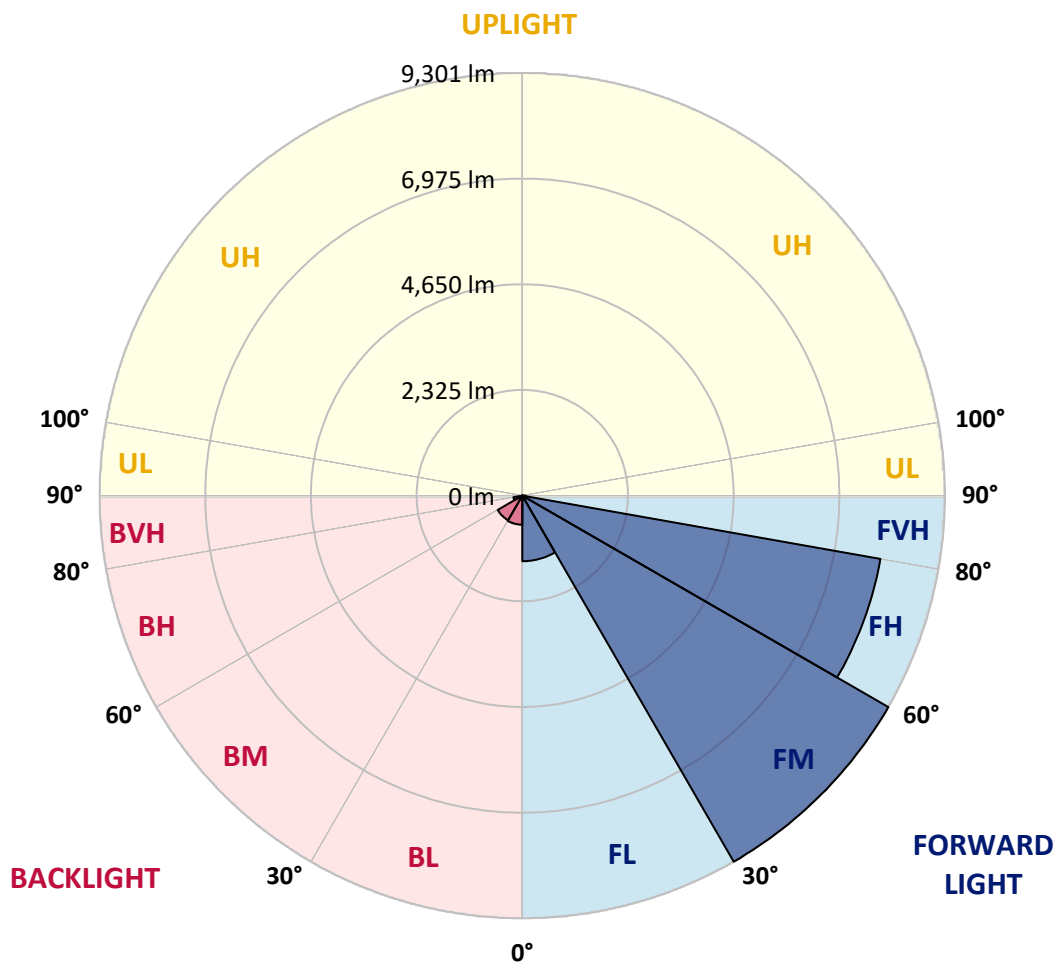
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.0	7.1			
FM	(30°-60°)	9300.5	45.9			
FH	(60°-80°)	8001.3	39.4			G4/12000
FVH	(80°-90°)	74.3	0.4			G1/100
BL	(0°-30°)	640.0	3.2	B2/1000		
BM	(30°-60°)	625.1	3.1	B1/1000		
BH	(60°-80°)	198.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6
2.5°	3545.9	3547.3	3555.9	3577.4	3610.3	3637.6	3660.5	3697.7	3723.5	3726.3	3734.9
5°	3301.0	3283.8	3301.0	3356.9	3407.0	3482.9	3576.0	3669.1	3752.1	3757.9	3797.9
7.5°	3026.0	3040.4	3067.6	3124.9	3219.4	3335.4	3470.0	3636.1	3793.7	3808.0	3886.7
10°	2746.8	2778.3	2822.7	2910.0	3041.8	3192.2	3375.5	3613.2	3859.5	3879.6	4015.6
12.5°	2489.0	2503.3	2557.7	2675.2	2838.4	3050.4	3303.9	3600.3	3932.6	3956.9	4153.1
15°	2291.4	2310.0	2357.2	2463.2	2645.1	2917.2	3245.2	3596.0	4004.2	4038.5	4290.6
17.5°	2254.1	2265.6	2285.6	2357.2	2516.2	2811.2	3192.2	3594.6	4072.9	4114.4	4418.1
20°	2407.4	2397.3	2377.3	2370.1	2457.5	2729.6	3153.5	3606.0	4138.8	4186.1	4552.7
22.5°	2791.2	2804.1	2686.6	2547.7	2519.1	2716.7	3147.8	3660.5	4243.3	4299.2	4703.0
25°	3606.0	3507.2	3323.9	2991.7	2741.1	2795.5	3212.2	3789.4	4365.1	4426.6	4839.1
27.5°	4506.8	4476.8	4191.8	3644.7	3177.8	2961.6	3326.8	3888.2	4405.2	4468.2	4916.4
30°	5391.9	5427.7	5101.2	4496.8	3812.3	3269.5	3434.2	3925.4	4441.0	4506.8	5015.2
32.5°	6212.5	6255.4	5969.0	5370.4	4559.8	3802.2	3618.9	4070.0	4591.3	4658.6	5179.9
35°	6858.4	6864.1	6647.8	6171.0	5376.1	4449.6	4018.5	4323.5	4794.7	4873.5	5354.7
37.5°	7451.3	7442.7	7189.2	6778.2	6056.4	5092.6	4521.2	4615.7	5026.7	5108.3	5606.7
40°	7890.9	7896.6	7815.0	7428.3	6690.8	5686.9	4919.3	4889.2	5416.2	5543.7	5973.3
42.5°	8184.5	8237.5	8277.6	8081.4	7488.5	6418.7	5530.8	5474.9	6092.2	6198.2	6491.7
45°	8422.2	8516.7	8717.2	8707.2	8254.7	7316.6	6370.0	6255.4	7050.3	7163.4	7151.9
47.5°	8595.5	8691.5	9023.7	9224.2	8975.0	8187.4	7425.5	7326.7	8194.5	8317.7	7880.9
50°	8684.3	8798.9	9222.8	9610.9	9537.8	9026.6	8628.4	8634.2	9576.5	9695.4	8725.8
52.5°	8476.6	8625.6	9328.7	10027.6	10169.4	9830.0	9755.5	9944.6	10806.7	10908.4	9489.1
55°	7813.6	8001.2	9184.1	10382.8	10901.2	10778.0	11035.8	11323.7	12151.4	12217.3	10272.5
57.5°	7394.0	7593.0	8757.3	10685.0	11780.5	11969.6	12377.7	12588.2	13539.1	13706.7	11171.9
60°	7040.2	7196.3	8406.5	10749.4	12674.2	13427.4	13824.1	14041.8	15251.9	15360.8	12161.5
62.5°	6451.6	6630.7	7813.6	10299.7	13123.8	14594.6	15416.6	15319.3	16576.6	16652.5	12768.7
65°	5505.0	5520.8	6610.6	9169.8	12659.8	15352.2	16535.1	16127.0	17209.6	17261.2	12721.4
67.5°	4108.7	4260.5	5085.4	7207.8	10693.5	14704.9	16897.4	16148.4	16810.1	16666.9	11711.8
70°	2646.5	2762.5	3447.1	4998.1	7710.5	12271.7	15695.9	15041.4	14753.6	14435.6	9586.5
72.5°	1221.6	1370.5	2047.9	2855.6	4572.7	8741.6	12741.5	12220.2	10619.1	9834.3	6093.6
75°	532.7	570.0	1011.1	1506.6	2143.9	4622.8	8400.7	7585.9	4796.1	4380.8	2438.9
77.5°	325.1	349.4	529.9	807.7	842.1	1761.5	4525.5	3309.6	1482.2	1307.5	661.6
80°	220.5	247.8	385.2	422.5	287.9	491.2	1698.5	883.6	299.3	286.4	141.8
82.5°	107.4	136.1	285.0	236.3	124.6	157.5	494.1	189.0	87.4	81.6	50.1
85°	15.8	27.2	160.4	154.7	55.9	37.2	87.4	47.3	30.1	28.6	22.9
87.5°	0.0	0.0	54.4	24.3	5.7	5.7	10.0	10.0	11.5	10.0	11.5
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°	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6	3710.6
2.5°	3739.2	3746.4	3719.2	3680.5	3639.0	3597.5	3538.7	3485.8	3454.2	3472.9	3427.0
5°	3806.5	3800.8	3729.2	3611.8	3455.7	3268.1	3081.9	2922.9	2871.4	2794.0	2785.4
7.5°	3899.6	3883.9	3732.1	3462.8	3110.5	2758.2	2414.5	2186.8	2056.5	1946.2	1949.1
10°	4030.0	3984.1	3699.1	3200.8	2620.8	2089.4	1651.2	1350.5	1220.2	1178.6	1145.7
12.5°	4164.6	4075.8	3607.5	2847.0	2040.8	1427.8	1003.9	820.6	740.4	714.6	711.8
15°	4284.9	4144.5	3447.1	2421.7	1483.7	912.3	684.5	624.4	614.4	615.8	614.4
17.5°	4403.7	4198.9	3225.1	1970.6	1008.2	654.5	588.6	574.3	578.6	584.3	582.9
20°	4502.5	4210.4	2941.5	1503.7	713.2	574.3	552.8	549.9	554.2	558.5	558.5
22.5°	4610.0	4219.0	2605.0	1041.1	582.9	534.2	522.7	522.7	528.4	534.2	535.6
25°	4690.2	4171.7	2202.6	747.6	514.1	495.5	489.8	491.2	496.9	499.8	498.4
27.5°	4703.0	4038.5	1775.8	572.8	466.9	448.2	442.5	448.2	441.1	445.4	442.5
30°	4714.5	3869.6	1343.3	482.6	423.9	395.3	386.7	378.1	372.3	365.2	363.8
32.5°	4750.3	3670.5	981.0	433.9	383.8	352.3	332.2	307.9	289.3	283.6	282.1
35°	4766.1	3431.3	720.4	395.3	348.0	313.6	277.8	243.5	216.2	206.2	213.4
37.5°	4826.2	3199.3	558.5	366.6	316.5	273.5	227.7	184.7	159.0	153.2	156.1
40°	4949.4	2947.3	468.3	342.3	289.3	236.3	180.4	138.9	121.7	116.0	114.6
42.5°	5147.0	2696.7	416.7	319.4	262.1	199.1	141.8	108.8	94.5	90.2	90.2
45°	5387.6	2456.1	380.9	295.0	233.4	160.4	111.7	87.4	78.8	75.9	75.9
47.5°	5704.1	2245.5	350.9	270.7	201.9	127.5	90.2	75.9	70.2	71.6	73.0
50°	6024.9	2089.4	317.9	243.5	166.1	104.5	77.3	67.3	65.9	67.3	67.3
52.5°	6266.9	1997.8	273.5	206.2	130.3	87.4	68.7	63.0	61.6	58.7	58.7
55°	6593.4	1977.7	217.7	167.6	103.1	73.0	61.6	57.3	53.0	50.1	48.7
57.5°	7013.0	2000.7	167.6	130.3	80.2	60.1	54.4	47.3	41.5	35.8	35.8
60°	7273.7	1949.1	130.3	100.2	58.7	48.7	41.5	34.4	27.2	22.9	21.5
62.5°	7190.6	1731.4	103.1	74.5	41.5	35.8	27.2	22.9	15.8	11.5	10.0
65°	6762.4	1397.7	83.1	51.6	30.1	21.5	14.3	14.3	7.2	1.4	0.0
67.5°	5918.9	1035.4	65.9	34.4	17.2	10.0	7.2	4.3	0.0	0.0	0.0
70°	4817.6	747.6	51.6	21.5	10.0	7.2	2.9	1.4	0.0	0.0	0.0
72.5°	3059.0	428.2	40.1	12.9	7.2	2.9	0.0	0.0	0.0	0.0	0.0
75°	1182.9	167.6	27.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	335.1	78.8	15.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.4	34.4	8.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.5	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.3	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	1.4	0.0	0.0	0.0	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)