

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: P648563

Luminaire Tested: **GALN-SA7B-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22783.7 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 III - Short  
BUG Rating: B2 - U0 - G4

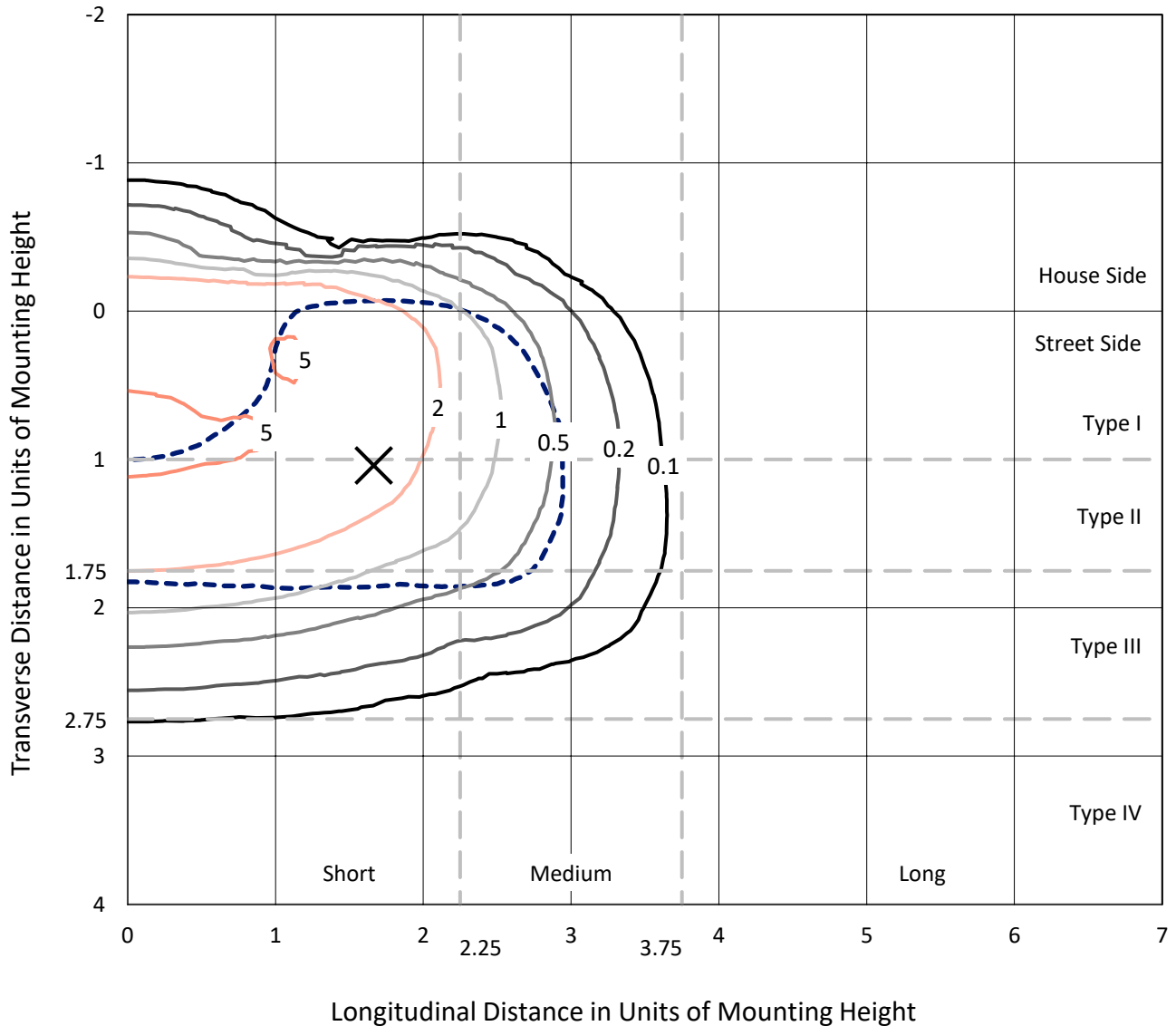
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

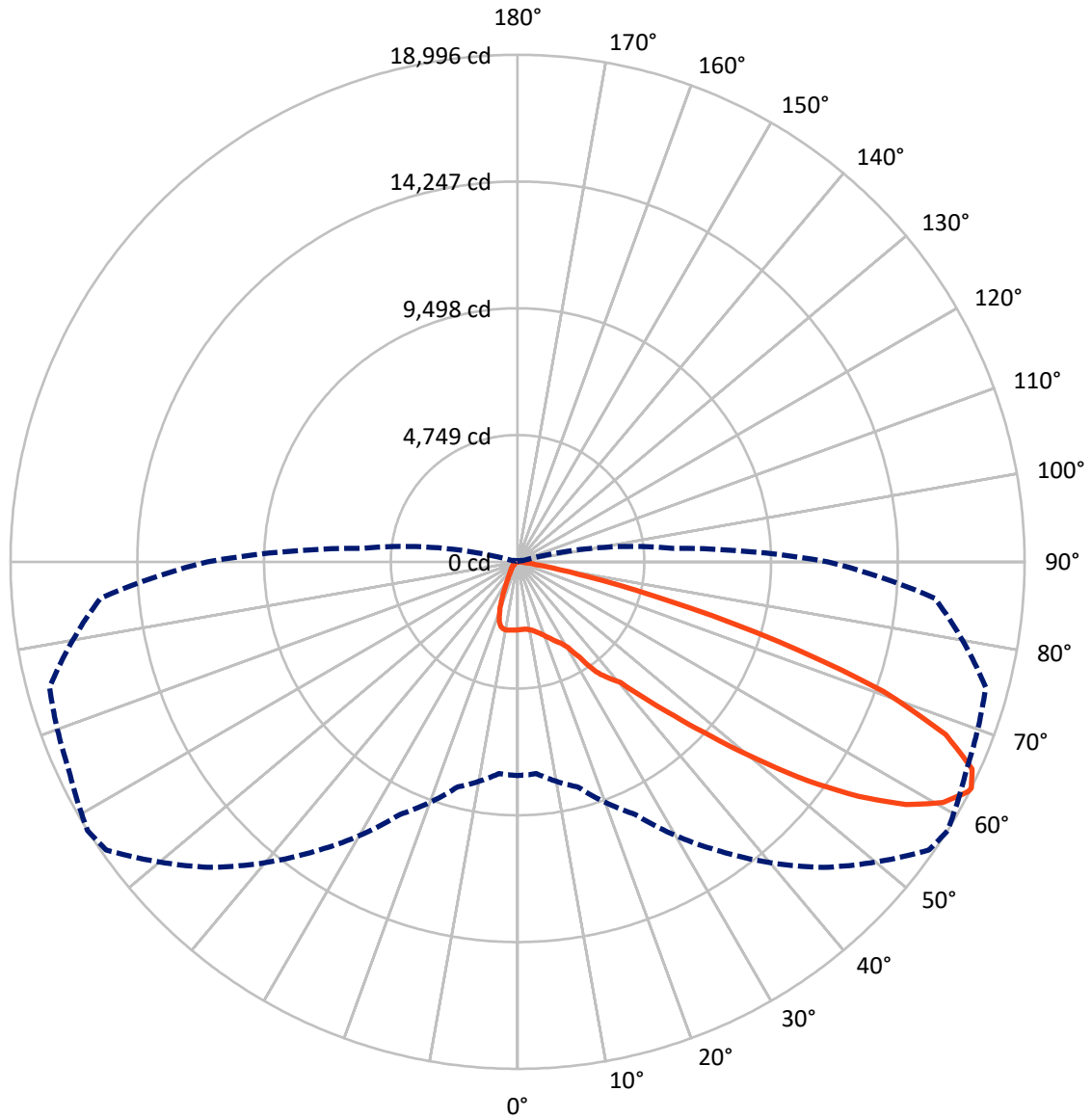
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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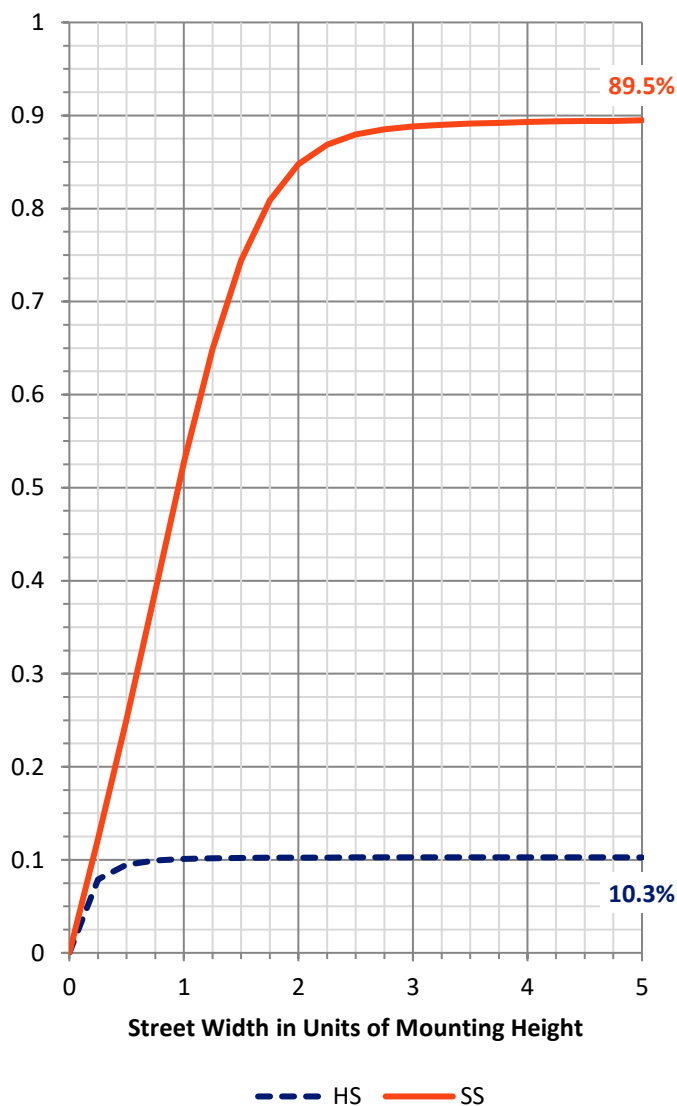
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2359.1	0.0	2359.1
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	20424.6	0.0	20424.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	22783.7	0.0	22783.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.8	1.0
10°-20°	650.4	2.9
20°-30°	1128.7	5.0
30°-40°	2074.2	9.1
40°-50°	3904.6	17.1
50°-60°	6678.5	29.3
60°-70°	6394.6	28.1
70°-80°	1630.7	7.2
80°-90°	83.4	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°	22783.7	100.0
0°-180°	22783.7	100.0

**Coefficient of Utilization**

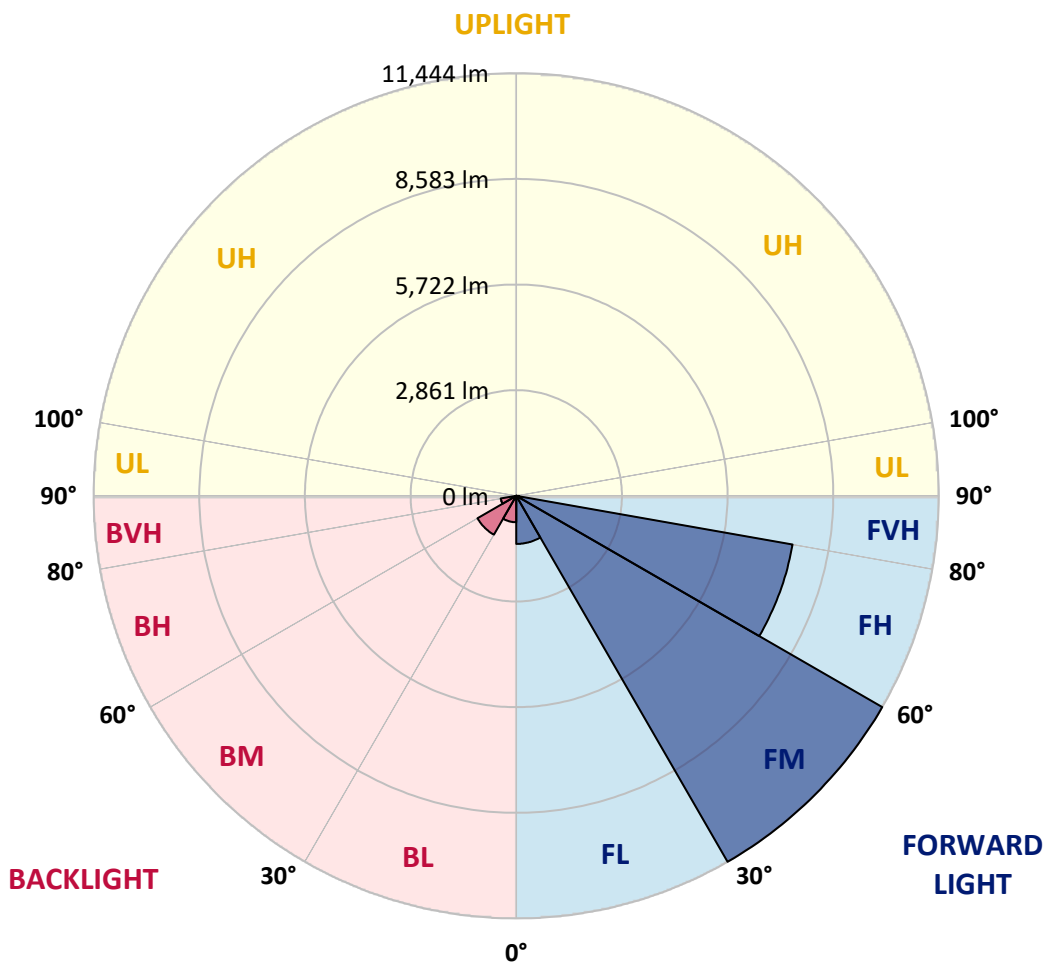


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.4	5.7			
FM (30°-60°)	11443.8	50.2			
FH (60°-80°)	7598.2	33.3			G4/12000
FVH (80°-90°)	80.2	0.4			G1/100
BL (0°-30°)	715.5	3.1	B2/1000		
BM (30°-60°)	1213.4	5.3	B2/2500		
BH (60°-80°)	427.0	1.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	58°	65°	75°	85°
0°	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7
2.5°	2487.3	2495.8	2504.4	2507.9	2519.9	2531.8	2540.4	2538.7	2552.4	2559.3	2559.3
5°	2387.8	2387.8	2410.1	2430.7	2465.0	2499.3	2531.8	2538.7	2564.5	2588.4	2597.1
7.5°	2303.7	2308.8	2326.0	2363.7	2410.1	2470.1	2535.3	2550.7	2595.3	2648.5	2670.8
10°	2264.3	2267.7	2290.0	2329.4	2387.8	2470.1	2561.0	2590.2	2658.8	2742.8	2773.7
12.5°	2255.7	2260.8	2283.1	2327.7	2394.6	2494.1	2617.6	2648.5	2748.0	2856.1	2902.3
15°	2271.1	2274.5	2296.9	2344.9	2418.6	2537.0	2693.1	2736.0	2854.3	2979.5	3039.6
17.5°	2326.0	2322.6	2338.0	2377.5	2459.8	2590.2	2784.0	2835.5	2974.4	3145.9	3185.4
20°	2559.3	2537.0	2523.3	2489.0	2521.6	2665.6	2893.8	2969.3	3140.8	3315.8	3343.3
22.5°	3061.9	3012.1	2914.4	2780.6	2677.6	2768.6	3025.9	3113.4	3334.6	3506.2	3506.2
25°	3701.7	3638.3	3540.5	3248.9	2996.7	2938.4	3175.1	3284.9	3545.7	3718.9	3662.2
27.5°	4502.8	4453.1	4262.7	3923.0	3537.0	3235.1	3348.3	3449.6	3732.6	3941.9	3823.5
30°	5154.6	5130.6	4974.6	4670.9	4245.5	3804.7	3670.9	3737.7	3981.3	4223.2	4101.4
32.5°	5705.3	5705.3	5545.8	5262.7	4864.7	4473.7	4218.0	4266.1	4499.4	4779.0	4552.5
35°	6310.7	6290.2	6161.5	5892.2	5446.2	5101.5	4996.8	5062.0	5273.0	5480.5	4923.0
37.5°	6947.2	6940.3	6806.5	6545.8	6182.1	5748.2	5502.8	5520.0	5628.0	5755.0	5357.1
40°	7638.5	7648.7	7473.8	7312.5	6969.5	6525.2	6055.2	5947.1	6048.4	6406.8	6158.1
42.5°	8455.0	8431.0	8355.5	8135.9	7859.8	7593.8	7029.5	6990.1	7079.3	7463.5	7194.2
45°	9403.5	9437.9	9307.5	9185.7	9000.4	8779.2	8307.5	8238.8	8336.6	8933.6	8551.0
47.5°	10353.8	10321.3	10405.3	10383.0	10482.5	10317.8	9901.0	9760.3	9995.4	10561.4	9998.8
50°	11077.7	11113.7	11288.7	11544.3	11971.4	12064.1	11664.4	11616.4	11721.0	12084.7	11293.8
52.5°	11547.8	11667.8	11942.2	12599.3	13369.4	13968.1	13664.5	13638.8	13595.9	13693.7	12532.4
55°	11854.8	11976.6	12335.1	13302.5	14628.5	15601.1	15616.5	15506.8	15223.7	15153.4	13690.2
57.5°	11666.1	11690.1	12201.3	13494.7	15326.7	16765.8	17270.2	17160.4	16637.2	16371.3	14712.6
60°	10485.9	10535.7	11247.6	12767.4	15023.0	17146.7	18366.3	18316.5	17743.6	17443.4	15508.5
62.5°	8394.9	8539.0	9271.5	10966.2	13611.3	16505.1	18810.6	18951.2	18505.2	18091.8	15758.9
63°	8010.7	7964.4	8738.0	10441.3	13237.4	16187.7	18817.4	18995.8	18539.5	18153.5	15690.3
65°	5930.0	6068.9	6571.5	8233.7	11015.9	14710.8	18393.7	18709.3	18412.6	17880.8	14930.4
67.5°	3329.5	3322.7	3878.4	5387.9	7710.5	11539.1	16632.0	17299.3	17237.6	16045.4	12376.3
70°	1629.6	1655.3	1883.4	2792.6	4471.9	7960.9	13820.6	14541.0	14563.3	12602.7	8557.9
72.5°	737.6	749.6	912.6	1360.3	2298.6	4238.6	9523.6	10211.5	10084.6	8031.3	4725.8
75°	389.4	415.1	502.6	684.4	1108.1	1748.0	5180.3	5845.9	5580.0	3669.1	1739.4
77.5°	288.1	296.8	341.4	435.7	593.5	681.0	2235.1	2658.8	2490.7	1327.7	576.4
80°	211.0	217.8	253.8	308.7	374.0	346.5	842.3	965.8	866.2	451.2	176.6
82.5°	128.6	130.4	185.3	229.9	235.0	193.9	277.9	298.5	312.2	253.8	96.1
85°	46.4	58.3	125.2	166.4	139.0	97.8	116.7	128.6	140.6	161.2	56.6
87.5°	5.2	6.9	60.1	80.6	39.5	36.0	42.9	48.0	51.4	60.1	27.5
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°	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7
2.5°	2566.2	2573.0	2567.8	2559.3	2557.6	2552.4	2542.2	2542.2	2542.2	2545.6	2542.2
5°	2603.9	2609.0	2597.1	2579.9	2561.0	2537.0	2511.2	2495.8	2494.1	2490.7	2482.1
7.5°	2676.0	2682.8	2655.4	2614.2	2562.8	2504.4	2449.5	2398.1	2374.1	2355.2	2355.2
10°	2780.6	2787.5	2732.6	2658.8	2555.9	2437.5	2307.1	2188.8	2096.2	2053.3	2043.0
12.5°	2905.8	2909.2	2818.3	2689.7	2519.9	2291.7	2013.8	1754.8	1574.7	1492.3	1483.8
15°	3043.1	3019.0	2899.0	2701.7	2417.0	1991.6	1511.2	1193.9	1006.9	952.0	972.6
17.5°	3182.0	3137.4	2960.7	2682.8	2185.4	1511.2	1015.5	814.8	756.5	741.0	741.0
20°	3312.3	3250.6	3005.3	2600.5	1784.0	1041.2	753.0	705.0	694.8	684.4	686.1
22.5°	3442.7	3348.3	3044.8	2417.0	1329.4	744.5	674.2	658.7	645.0	631.3	629.5
25°	3569.6	3439.2	3060.2	2077.3	905.7	639.8	615.8	595.2	567.8	552.3	548.9
27.5°	3701.7	3549.0	3049.9	1648.4	660.4	572.9	548.9	519.8	487.2	459.7	459.7
30°	3955.6	3758.3	3013.8	1185.3	555.8	504.3	473.4	427.1	391.1	363.6	361.9
32.5°	4302.1	4031.0	2890.4	833.7	494.0	444.3	398.0	346.5	308.7	288.1	288.1
35°	4610.9	4305.6	2658.8	614.1	444.3	385.9	329.3	279.6	250.4	236.7	231.6
37.5°	5080.9	4706.9	2339.8	499.2	396.3	334.5	276.2	229.9	205.9	195.5	195.5
40°	5785.9	5197.5	1948.7	437.4	349.9	284.8	229.9	193.9	175.0	162.9	162.9
42.5°	6660.7	5797.9	1552.4	392.8	307.0	245.3	192.1	164.7	147.5	139.0	137.3
45°	7762.0	6430.9	1195.6	351.6	272.7	209.3	162.9	139.0	121.8	116.7	118.4
47.5°	8911.2	6988.4	926.3	315.6	236.7	176.6	139.0	120.1	108.1	101.2	101.2
50°	9892.4	7372.6	703.3	274.4	209.3	149.2	121.8	108.1	97.8	94.4	92.6
52.5°	10712.4	7484.1	538.6	238.4	183.5	128.6	108.1	97.8	89.2	84.0	84.0
55°	11410.5	7386.3	422.0	200.7	154.4	111.5	96.1	87.5	77.2	72.0	70.3
57.5°	11818.8	7072.4	322.5	166.4	125.2	92.6	84.0	73.8	61.8	53.2	53.2
60°	12024.6	6616.1	247.0	137.3	96.1	73.8	68.6	54.9	42.9	36.0	34.3
62.5°	11777.6	6010.6	187.0	108.1	72.0	54.9	46.4	39.5	27.5	20.6	20.6
63°	11625.0	5835.6	180.1	102.9	66.9	51.4	42.9	36.0	24.0	18.9	17.1
65°	10597.4	5072.3	147.5	82.4	53.2	36.0	29.1	25.8	17.1	8.6	6.9
67.5°	8415.5	3880.2	116.7	61.8	37.7	25.8	17.1	15.4	5.2	0.0	0.0
70°	5689.8	2506.1	90.9	44.6	25.8	15.4	8.6	6.9	1.7	0.0	0.0
72.5°	2967.6	1284.8	70.3	32.6	15.4	10.3	5.2	1.7	0.0	0.0	0.0
75°	1049.8	437.4	51.4	20.6	10.3	5.2	1.7	0.0	0.0	0.0	0.0
77.5°	317.3	162.9	32.6	15.4	6.9	3.4	0.0	0.0	0.0	0.0	0.0
80°	111.5	60.1	18.9	10.3	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	54.9	29.1	12.0	8.6	5.2	1.7	0.0	0.0	0.0	0.0	0.0
85°	30.9	18.9	10.3	8.6	5.2	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	22.3	13.7	10.3	8.6	6.9	3.4	1.7	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)