

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: P648178

Luminaire Tested: **GALN-SA9A-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648178  
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-SA9A-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA 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: 23833 lumens  
Efficiency: N/A  
Efficacy: 87.0 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

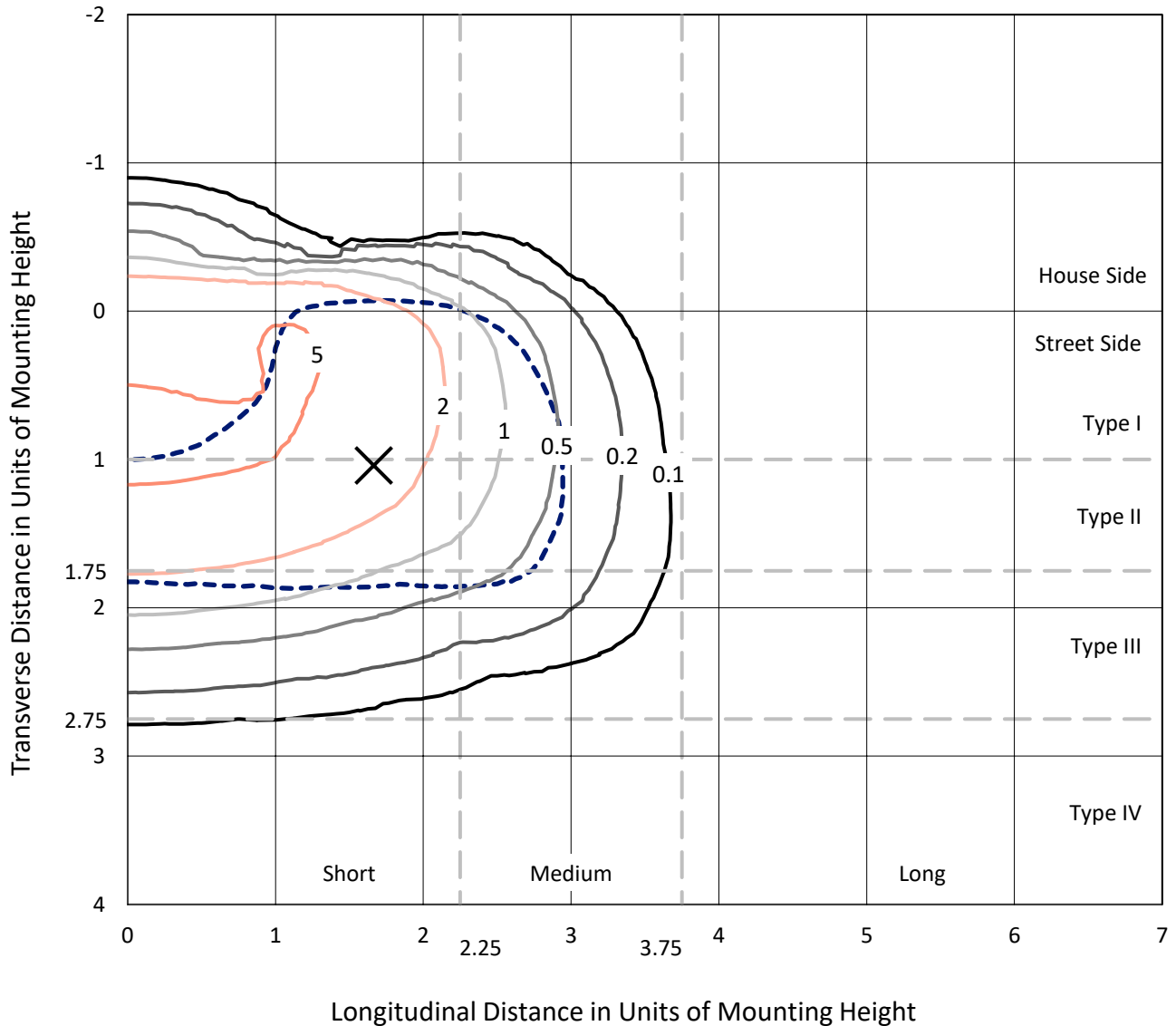
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

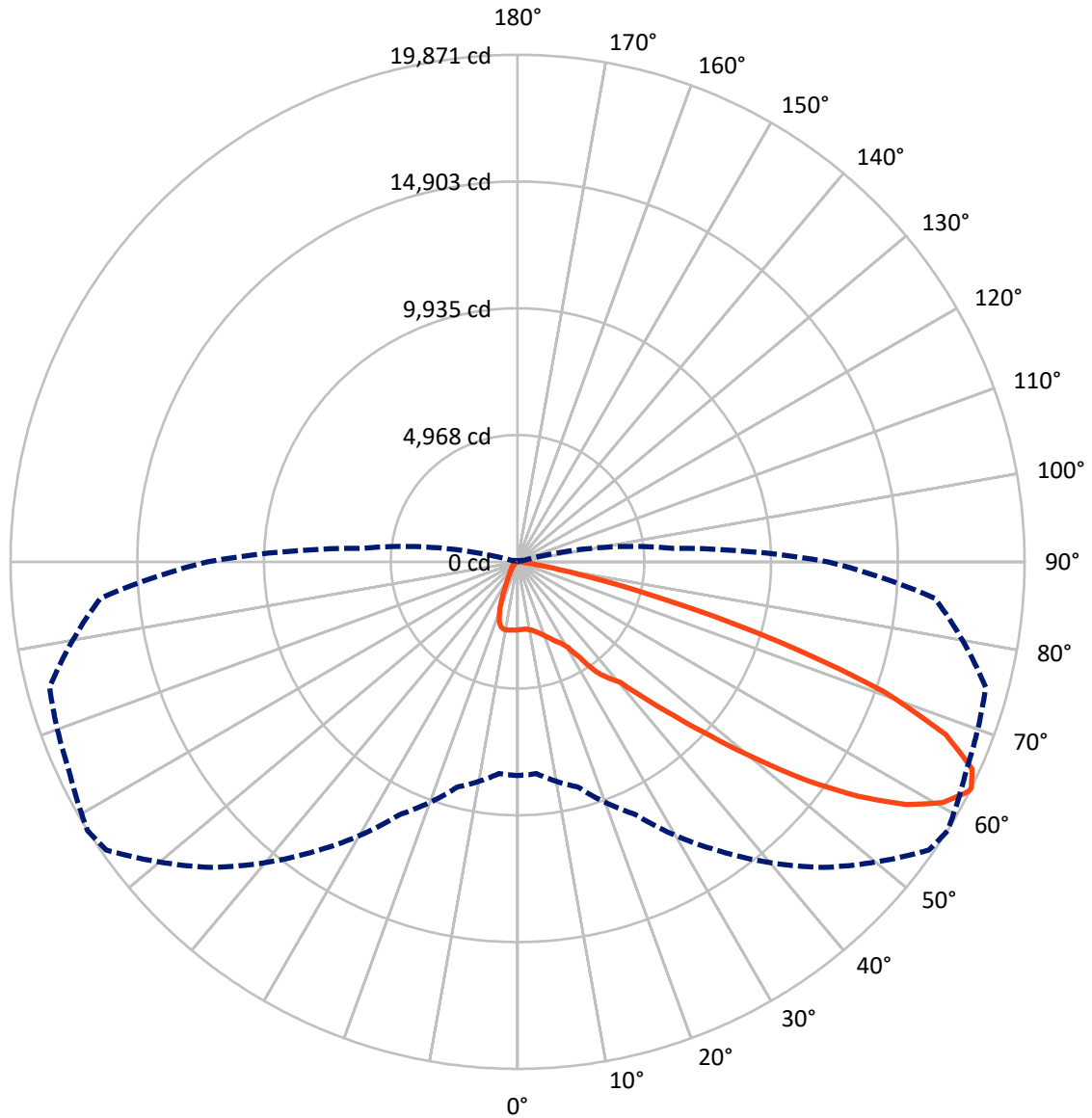
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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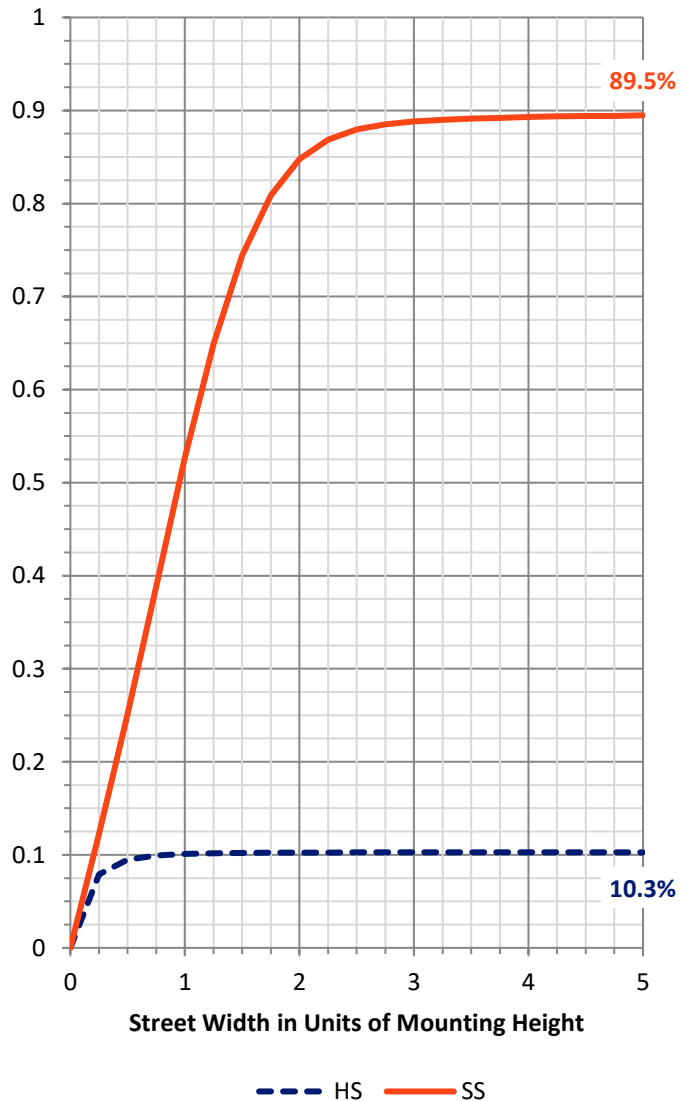
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2467.7	0.0	2467.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	21365.2	0.0	21365.2
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	23833.0	0.0	23833.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.8	1.0
10°-20°	680.3	2.9
20°-30°	1180.7	5.0
30°-40°	2169.7	9.1
40°-50°	4084.4	17.1
50°-60°	6986.0	29.3
60°-70°	6689.1	28.1
70°-80°	1705.7	7.2
80°-90°	87.2	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°	23833.0	100.0
0°-180°	23833.0	100.0

**Coefficient of Utilization**



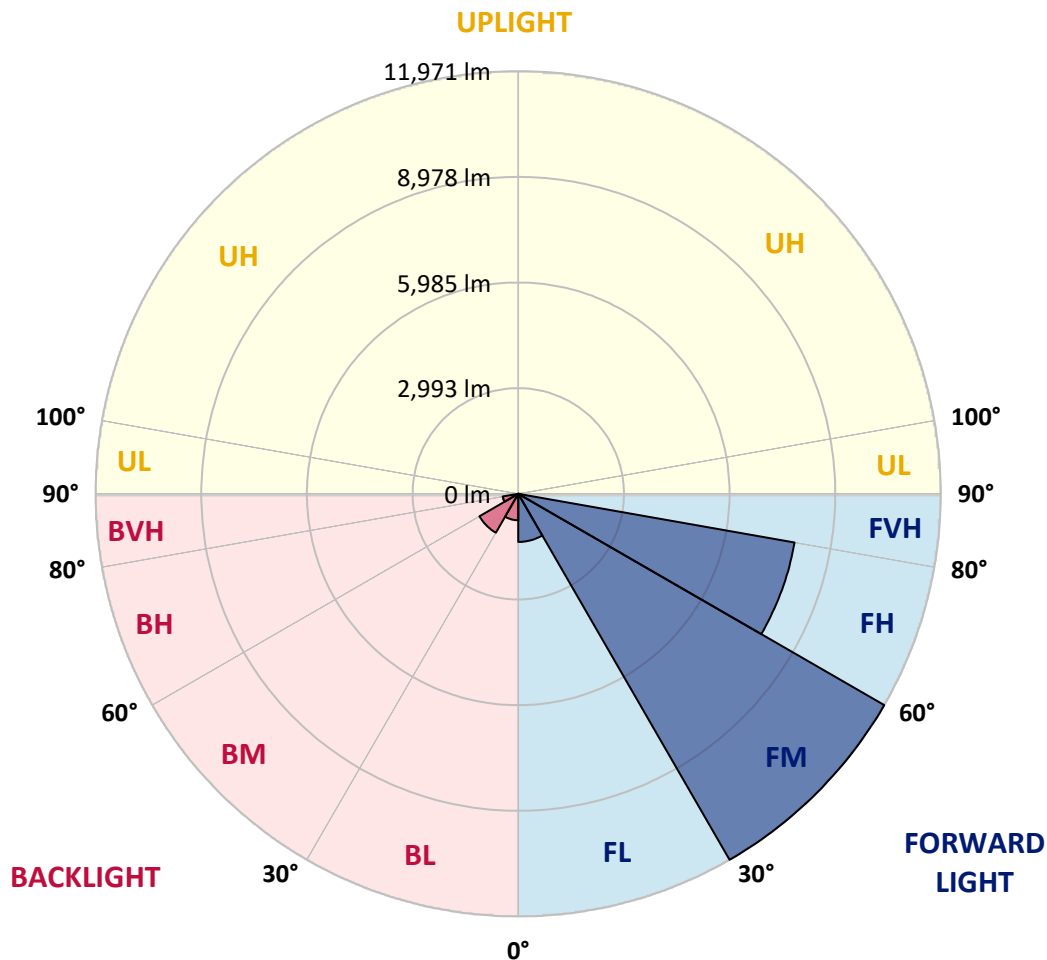
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.4	5.7			
FM (30°-60°)	11970.8	50.2			
FH (60°-80°)	7948.2	33.3			G4/12000
FVH (80°-90°)	83.8	0.4			G1/100
BL (0°-30°)	748.4	3.1	B2/1000		
BM (30°-60°)	1269.3	5.3	B2/2500		
BH (60°-80°)	446.7	1.9	B1/500		G1/500
BVH (80°-90°)	3.4	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2601.8	2610.8	2619.8	2623.4	2635.9	2648.4	2657.4	2655.6	2670.0	2677.2	2677.2
5°	2497.7	2497.7	2521.0	2542.6	2578.5	2614.4	2648.4	2655.6	2682.6	2707.7	2716.6
7.5°	2409.8	2415.2	2433.1	2472.6	2521.0	2583.8	2652.0	2668.2	2714.8	2770.5	2793.8
10°	2368.5	2372.1	2395.4	2436.7	2497.7	2583.8	2679.0	2709.5	2781.2	2869.1	2901.5
12.5°	2359.6	2365.0	2388.3	2434.9	2504.9	2609.0	2738.2	2770.5	2874.5	2987.6	3036.0
15°	2375.7	2379.3	2402.6	2452.9	2530.0	2653.8	2817.2	2861.9	2985.8	3116.8	3179.6
17.5°	2433.1	2429.6	2445.7	2487.0	2573.1	2709.5	2912.2	2966.1	3111.4	3290.8	3332.1
20°	2677.2	2653.8	2639.5	2603.6	2637.7	2788.4	3027.1	3106.0	3285.5	3468.5	3497.2
22.5°	3202.9	3150.9	3048.6	2908.6	2800.9	2896.1	3165.2	3256.7	3488.2	3667.7	3667.7
25°	3872.2	3805.8	3703.5	3398.5	3134.7	3073.7	3321.3	3436.2	3708.9	3890.2	3830.9
27.5°	4710.1	4658.1	4459.0	4103.7	3699.9	3384.1	3502.6	3608.5	3904.5	4123.4	3999.6
30°	5392.0	5366.9	5203.6	4886.0	4441.0	3979.8	3839.9	3909.9	4164.7	4417.7	4290.3
32.5°	5968.0	5968.0	5801.1	5505.0	5088.8	4679.7	4412.3	4462.6	4706.5	4999.1	4762.2
35°	6601.4	6579.9	6445.3	6163.5	5697.0	5336.4	5226.9	5295.1	5515.8	5733.0	5149.8
37.5°	7267.1	7259.9	7120.0	6847.3	6466.8	6012.8	5756.2	5774.2	5887.2	6020.0	5603.8
40°	7990.2	8001.0	7817.9	7649.3	7290.4	6825.7	6334.0	6221.0	6326.9	6701.9	6441.7
42.5°	8844.3	8819.2	8740.2	8510.6	8221.7	7943.5	7353.2	7312.0	7405.3	7807.2	7525.5
45°	9836.6	9872.5	9736.1	9608.7	9414.9	9183.5	8690.0	8618.2	8720.5	9344.9	8944.8
47.5°	10830.7	10796.6	10884.5	10861.1	10965.2	10793.0	10357.0	10209.9	10455.6	11047.8	10459.2
50°	11587.9	11625.6	11808.6	12076.0	12522.8	12619.6	12201.6	12151.3	12260.8	12641.1	11814.0
52.5°	12079.5	12205.2	12492.2	13179.5	13985.2	14611.3	14293.7	14266.8	14221.9	14324.3	13109.5
55°	12400.7	12528.2	12903.1	13915.2	15302.2	16319.6	16335.7	16220.9	15924.8	15851.2	14320.7
57.5°	12203.4	12228.4	12763.2	14116.1	16032.5	17537.9	18065.5	17950.7	17403.3	17125.2	15390.1
60°	10968.8	11020.9	11765.5	13355.3	15714.9	17936.3	19212.1	19160.0	18560.7	18246.7	16222.7
62.5°	8781.5	8932.2	9698.5	11471.3	14238.2	17265.2	19676.8	19823.9	19357.4	18925.0	16484.7
63°	8379.6	8331.1	9140.4	10922.1	13847.0	16933.2	19684.0	19870.6	19393.3	18989.6	16412.9
65°	6203.1	6348.4	6874.1	8612.8	11523.3	15388.3	19240.7	19570.9	19260.5	18704.2	15618.0
67.5°	3482.9	3475.7	4057.0	5636.0	8065.6	12070.6	17397.9	18096.0	18031.4	16784.3	12946.2
70°	1704.6	1731.5	1970.2	2921.2	4677.9	8327.5	14457.1	15210.6	15234.0	13183.1	8952.0
72.5°	771.6	784.1	954.6	1422.9	2404.4	4433.8	9962.2	10681.8	10549.0	8401.1	4943.4
75°	407.3	434.3	525.7	716.0	1159.2	1828.5	5418.9	6115.2	5837.0	3838.1	1819.5
77.5°	301.5	310.5	357.0	455.8	620.8	712.4	2338.0	2781.2	2605.4	1388.8	602.9
80°	220.7	227.9	265.6	323.0	391.2	362.5	881.0	1010.2	906.2	471.9	184.8
82.5°	134.6	136.4	193.8	240.5	245.9	202.8	290.6	312.2	326.6	265.6	100.5
85°	48.5	61.0	131.0	174.1	145.3	102.3	122.0	134.6	147.1	168.7	59.2
87.5°	5.4	7.2	62.8	84.3	41.3	37.7	44.9	50.3	53.8	62.8	28.7
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°	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2	2668.2
2.5°	2684.4	2691.5	2686.2	2677.2	2675.4	2670.0	2659.2	2659.2	2659.2	2662.8	2659.2
5°	2723.8	2729.2	2716.6	2698.7	2679.0	2653.8	2626.9	2610.8	2609.0	2605.4	2596.4
7.5°	2799.1	2806.4	2777.6	2734.5	2680.8	2619.8	2562.3	2508.5	2483.4	2463.6	2463.6
10°	2908.6	2915.8	2858.4	2781.2	2673.6	2549.8	2413.4	2289.6	2192.7	2147.8	2137.0
12.5°	3039.6	3043.2	2948.1	2813.6	2635.9	2397.2	2106.6	1835.6	1647.2	1561.1	1552.1
15°	3183.1	3158.1	3032.5	2826.1	2528.2	2083.2	1580.8	1248.9	1053.3	995.9	1017.4
17.5°	3328.5	3281.9	3097.1	2806.4	2286.0	1580.8	1062.2	852.3	791.3	775.2	775.2
20°	3464.9	3400.3	3143.7	2720.2	1866.1	1089.2	787.7	737.5	726.7	716.0	717.8
22.5°	3601.3	3502.6	3184.9	2528.2	1390.6	778.8	705.2	689.0	674.7	660.3	658.5
25°	3734.0	3597.7	3201.1	2173.0	947.4	669.3	644.2	622.6	593.9	577.8	574.2
27.5°	3872.2	3712.5	3190.3	1724.4	690.8	599.3	574.2	543.7	509.6	480.9	480.9
30°	4137.8	3931.4	3152.7	1239.9	581.4	527.5	495.2	446.8	409.1	380.4	378.6
32.5°	4500.2	4216.7	3023.5	872.0	516.8	464.7	416.3	362.5	323.0	301.5	301.5
35°	4823.2	4503.8	2781.2	642.4	464.7	403.7	344.5	292.5	262.0	247.6	242.3
37.5°	5314.8	4923.7	2447.5	522.2	414.5	349.9	288.9	240.5	215.3	204.5	204.5
40°	6052.4	5436.8	2038.4	457.6	366.1	297.9	240.5	202.8	183.0	170.5	170.5
42.5°	6967.4	6064.9	1623.9	410.9	321.2	256.6	201.0	172.3	154.3	145.3	143.5
45°	8119.4	6727.0	1250.7	367.9	285.3	218.9	170.5	145.3	127.4	122.0	123.8
47.5°	9321.6	7310.2	969.0	330.2	247.6	184.8	145.3	125.6	113.1	105.9	105.9
50°	10348.0	7712.1	735.7	287.1	218.9	156.1	127.4	113.1	102.3	98.7	96.9
52.5°	11205.7	7828.7	563.4	249.4	192.0	134.6	113.1	102.3	93.3	87.9	87.9
55°	11936.0	7726.5	441.4	209.9	161.5	116.7	100.5	91.5	80.7	75.3	73.6
57.5°	12363.0	7398.1	337.3	174.1	131.0	96.9	87.9	77.1	64.6	55.6	55.6
60°	12578.3	6920.8	258.4	143.5	100.5	77.1	71.8	57.4	44.9	37.7	35.9
62.5°	12320.0	6287.4	195.6	113.1	75.3	57.4	48.5	41.3	28.7	21.5	21.5
63°	12160.3	6104.3	188.4	107.7	70.0	53.8	44.9	37.7	25.1	19.7	17.9
65°	11085.5	5305.8	154.3	86.1	55.6	37.7	30.5	26.9	17.9	9.0	7.2
67.5°	8803.0	4058.8	122.0	64.6	39.5	26.9	17.9	16.1	5.4	0.0	0.0
70°	5951.8	2621.6	95.1	46.7	26.9	16.1	9.0	7.2	1.8	0.0	0.0
72.5°	3104.2	1343.9	73.6	34.1	16.1	10.7	5.4	1.8	0.0	0.0	0.0
75°	1098.2	457.6	53.8	21.5	10.7	5.4	1.8	0.0	0.0	0.0	0.0
77.5°	332.0	170.5	34.1	16.1	7.2	3.6	0.0	0.0	0.0	0.0	0.0
80°	116.7	62.8	19.7	10.7	5.4	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	57.4	30.5	12.5	9.0	5.4	1.8	0.0	0.0	0.0	0.0	0.0
85°	32.3	19.7	10.7	9.0	5.4	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	14.3	10.7	9.0	7.2	3.6	1.8	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)