

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: P647025

Luminaire Tested: **GALN-SA6C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28495.7 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

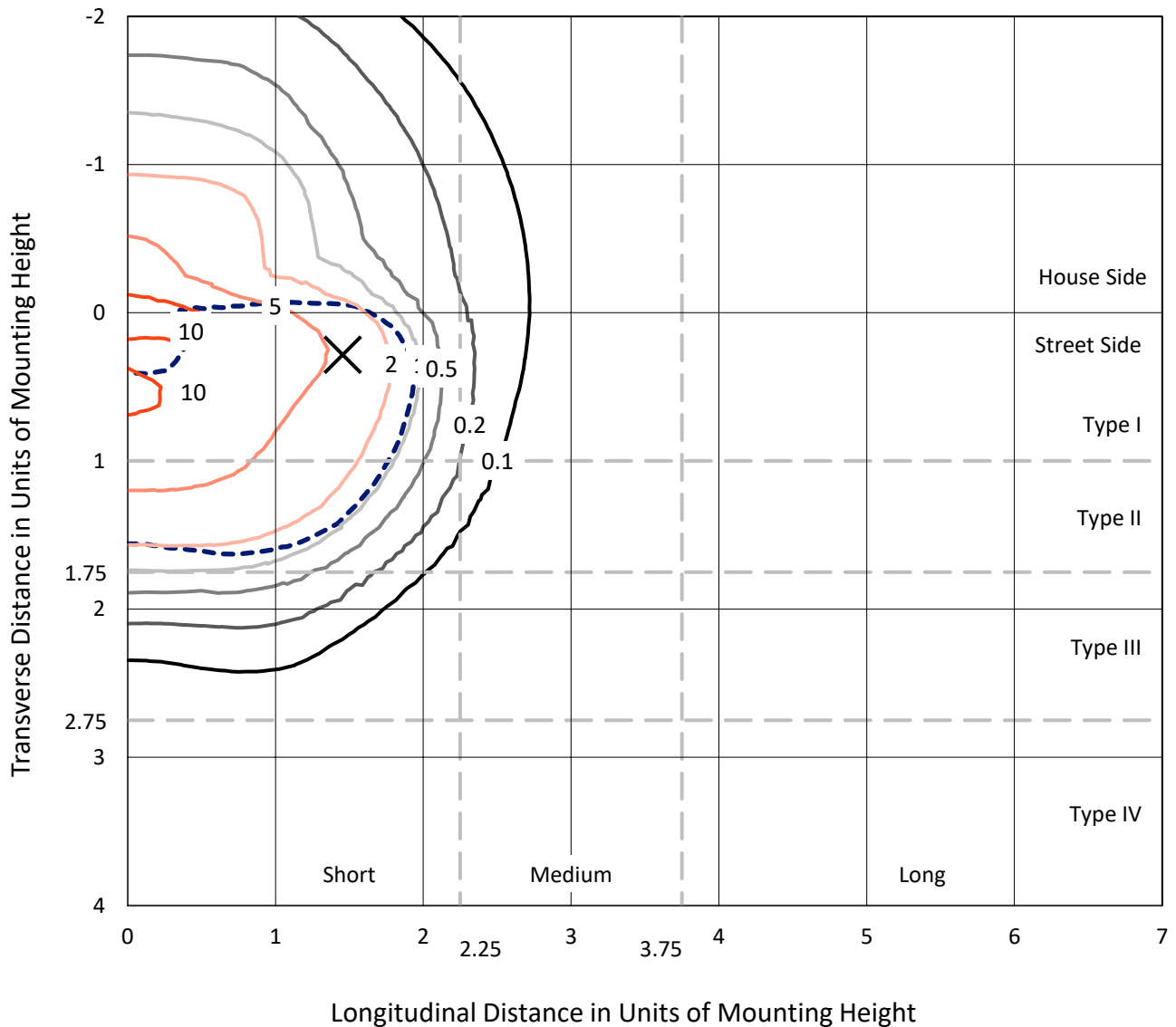
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

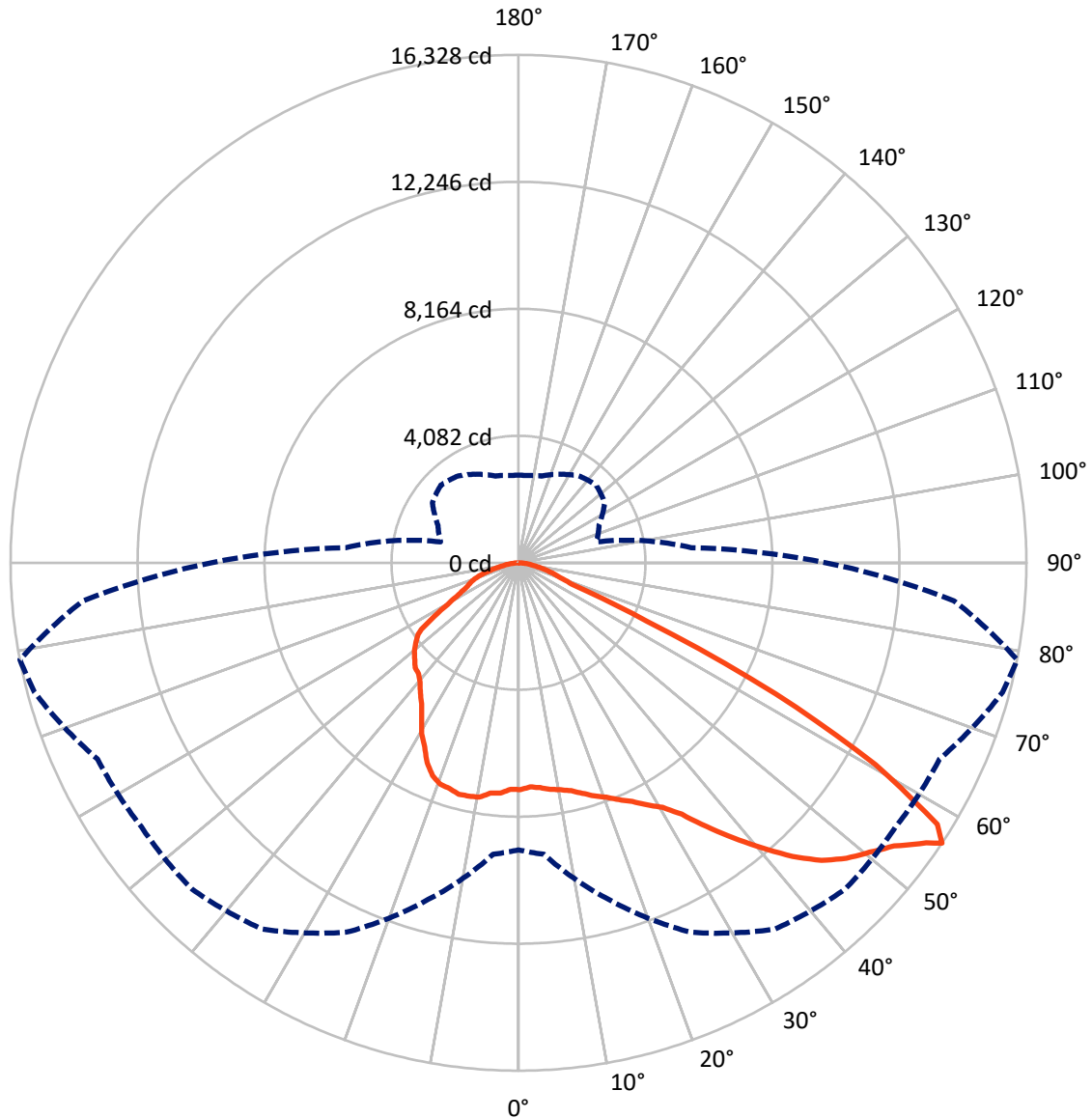
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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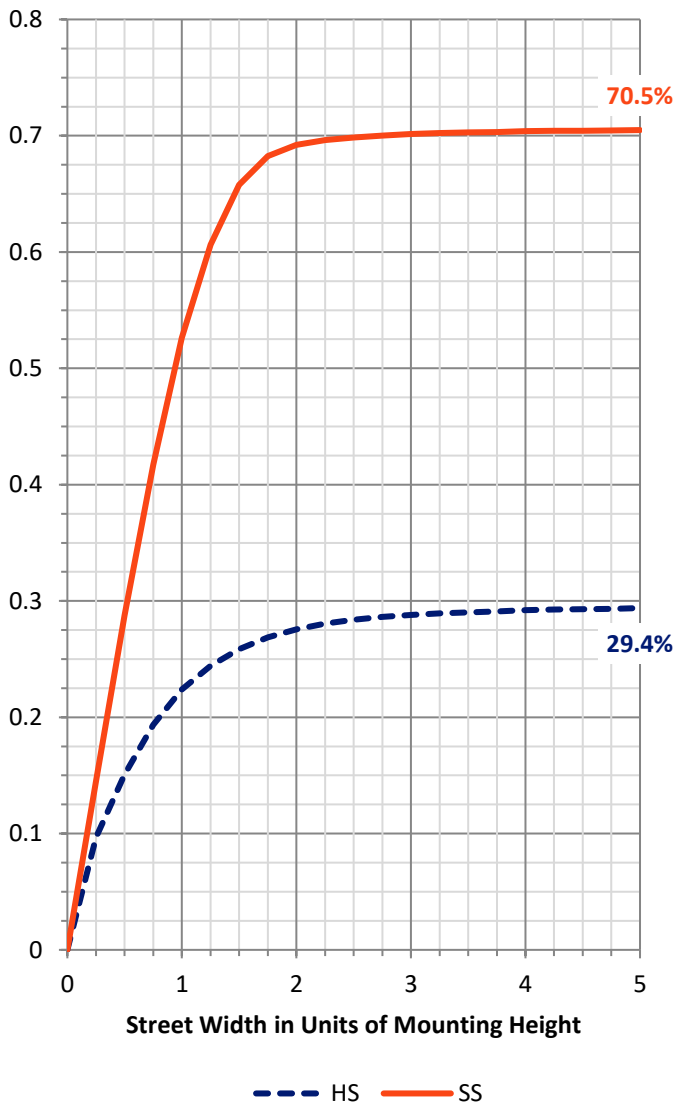
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8415.4	0.0	8415.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	20080.3	0.0	20080.3
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	28495.7	0.0	28495.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	662.9	2.3
10°-20°	1814.1	6.4
20°-30°	3103.6	10.9
30°-40°	4756.7	16.7
40°-50°	6428.6	22.6
50°-60°	7383.5	25.9
60°-70°	3365.6	11.8
70°-80°	829.8	2.9
80°-90°	150.8	0.5
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°	28495.7	100.0
0°-180°	28495.7	100.0



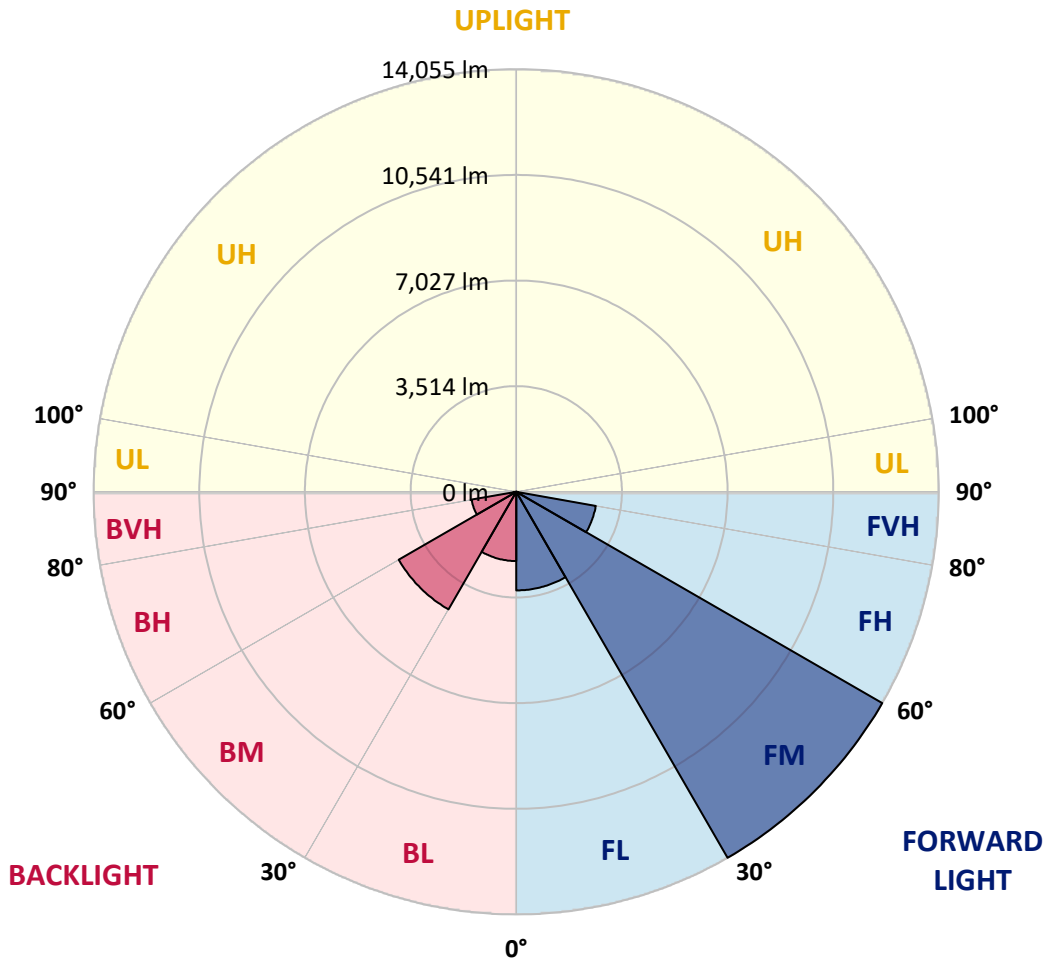
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3278.7	11.5			
FM (30°-60°)	14054.9	49.3			
FH (60°-80°)	2686.5	9.4			G2/5000
FVH (80°-90°)	60.2	0.2			G1/100
BL (0°-30°)	2302.0	8.1	B3/2500		
BM (30°-60°)	4513.9	15.8	B3/5000		
BH (60°-80°)	1508.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	90.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9
2.5°	6936.0	6918.2	6960.8	6992.7	7031.8	7081.5	7106.4	7120.5	7244.8	7212.8	7308.7
5°	6786.9	6740.8	6772.7	6797.5	6865.0	6925.3	6992.7	7099.2	7212.8	7262.6	7379.7
7.5°	6655.6	6630.7	6623.6	6641.3	6733.6	6811.7	6928.8	7085.1	7269.6	7351.3	7418.7
10°	6439.0	6403.5	6456.8	6573.9	6598.7	6762.1	6896.9	7120.5	7280.3	7422.3	7621.0
12.5°	6343.2	6307.7	6318.3	6385.8	6559.7	6715.9	6875.6	7127.6	7464.9	7521.7	7787.9
15°	6495.8	6460.3	6470.9	6453.3	6620.0	6701.7	6953.7	7269.6	7592.7	7688.5	7972.4
17.5°	6843.7	6847.3	6801.1	6762.1	6723.0	6896.9	7070.9	7354.8	7642.3	7883.7	8096.7
20°	7507.5	7390.3	7298.0	7077.9	7017.6	7092.2	7312.2	7585.5	7844.6	8043.4	8284.8
22.5°	8018.6	8029.3	7897.9	7535.8	7404.5	7436.5	7624.6	7848.2	8132.2	8274.2	8551.1
25°	8760.4	8685.9	8543.9	8256.4	7961.8	7986.7	8125.1	8327.4	8405.5	8504.9	8806.6
27.5°	9438.4	9459.7	9179.3	8909.5	8543.9	8472.9	8721.4	8756.9	8625.6	8813.7	8916.6
30°	10127.1	10109.3	9924.8	9608.8	9250.3	9264.5	9374.5	9200.6	9019.6	9122.5	9193.5
32.5°	10840.6	10638.2	10631.1	10347.2	10073.8	9942.5	9807.6	9892.8	9612.3	9633.6	9566.2
35°	11412.1	11440.4	11277.2	11074.8	10939.9	10709.2	10340.1	10492.7	10439.4	10414.6	10123.6
37.5°	11827.4	11717.3	11798.9	11731.5	11603.7	11316.2	10932.9	11078.4	11103.3	11223.9	10886.7
40°	12168.1	12121.9	12338.5	12374.0	12285.3	11664.0	10975.5	11408.5	11781.2	12043.9	11642.7
42.5°	12331.4	12430.8	12658.0	12931.2	12732.5	12068.7	11195.5	11660.5	12491.1	12906.4	12359.8
45°	12551.5	12423.7	12760.9	13261.4	13265.0	12409.5	11408.5	12001.3	13044.9	13648.3	12849.7
47.5°	12327.9	12391.8	12739.6	13375.0	13538.2	12768.0	11983.5	12484.0	13655.4	14191.4	13304.0
50°	11827.4	11955.2	12590.5	13250.7	13744.2	13147.8	12643.7	13005.8	14219.8	14628.0	13378.5
52.5°	11305.6	11376.5	12370.5	13346.5	13836.4	13637.7	13527.6	13726.4	14908.4	15121.4	13470.8
55°	9885.7	10222.9	11642.7	13304.0	14287.2	14521.5	14436.3	14727.4	15689.4	15902.3	13974.9
56°	9229.0	9406.5	11206.1	13105.2	14376.0	14844.5	14801.9	14933.3	16104.7	16328.3	14053.0
57.5°	8015.0	8029.3	9555.6	12224.9	14042.3	14940.3	14897.7	15000.7	16023.0	15870.4	13367.8
60°	5015.6	5235.7	6502.9	9403.0	11940.9	13861.3	14102.7	13275.6	13509.9	13186.8	10400.4
62.5°	2598.3	2566.4	3407.6	5498.4	7926.3	9924.8	10148.4	10109.3	9747.3	9275.2	6794.0
65°	1295.6	1302.7	1781.9	2722.6	4060.8	5196.6	5821.4	5888.8	4926.9	4532.9	3223.1
67.5°	940.6	976.2	1281.4	1664.7	1913.3	2140.4	2623.2	2573.5	1948.7	1852.9	1718.0
70°	731.2	763.2	1040.1	1270.7	1153.6	1153.6	1256.6	1299.2	1387.9	1426.9	1473.1
72.5°	532.4	557.3	795.1	876.7	756.1	812.8	940.6	1040.1	1132.3	1146.5	1199.8
75°	365.6	386.9	521.8	482.7	454.4	560.9	688.6	780.9	848.4	883.9	915.8
77.5°	237.8	244.9	298.2	252.0	291.0	362.1	447.2	525.3	592.8	621.2	628.3
80°	106.5	117.1	127.8	159.7	202.3	259.1	319.5	383.4	426.0	436.6	457.9
82.5°	60.4	60.4	78.1	113.6	149.1	188.2	230.8	276.9	326.6	337.2	333.6
85°	31.9	31.9	46.1	67.4	92.3	110.0	106.5	110.0	117.1	134.9	131.3
87.5°	10.6	10.6	14.2	14.2	17.8	21.3	17.8	24.8	31.9	31.9	31.9
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°	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9	7290.9
2.5°	7280.3	7312.2	7269.6	7361.9	7361.9	7344.1	7255.4	7283.9	7305.2	7305.2	7322.9
5°	7418.7	7408.0	7436.5	7326.5	7259.0	7234.1	7088.6	7017.6	6957.3	6953.7	6900.5
7.5°	7496.8	7468.4	7457.8	7376.1	7077.9	6896.9	6584.6	6403.5	6364.5	6226.0	6279.3
10°	7621.0	7674.3	7621.0	7177.4	6762.1	6346.8	6041.5	5761.0	5651.0	5562.3	5509.0
12.5°	7876.6	7851.8	7543.0	6943.1	6360.9	5867.5	5413.2	5118.5	5008.5	4930.4	4923.3
15°	8093.2	7968.9	7496.8	6573.9	5736.2	5210.9	4838.2	4628.7	4579.0	4586.1	4618.1
17.5°	8167.7	8082.5	7255.4	6190.6	5271.2	4653.5	4479.6	4447.7	4493.8	4547.0	4561.3
20°	8284.8	8149.9	7156.1	5668.8	4696.1	4305.7	4295.1	4408.6	4493.8	4571.9	4582.6
22.5°	8529.8	8189.0	6833.0	5175.3	4302.1	4202.8	4305.7	4401.6	4532.9	4596.8	4540.0
25°	8600.7	8103.8	6378.7	4582.6	4053.7	4138.9	4248.9	4380.3	4472.5	4508.0	4532.9
27.5°	8661.1	7972.4	5764.6	4188.6	3975.6	4135.3	4248.9	4359.0	4408.6	4440.5	4469.0
30°	8831.5	7933.4	5232.2	3925.9	3925.9	4064.3	4209.9	4238.2	4305.7	4344.7	4394.4
32.5°	8916.6	7663.6	4685.5	3759.0	3876.2	4099.8	4110.4	4163.7	4167.3	4199.2	4146.0
35°	9140.3	7471.9	4177.9	3638.4	3897.5	4064.3	4117.6	4085.6	3911.7	3826.5	3844.2
37.5°	9303.5	7376.1	3812.3	3624.2	3901.1	4103.4	4131.7	3890.4	3709.4	3567.3	3602.9
40°	9743.7	7138.3	3535.4	3599.3	3933.0	4146.0	4067.8	3805.2	3478.6	3333.1	3308.3
42.5°	10081.0	6967.9	3361.5	3570.9	3957.8	4206.3	4035.9	3634.8	3301.1	3166.3	3201.8
45°	10471.4	6928.8	3269.2	3578.0	4000.4	4238.2	3996.9	3503.5	3148.5	3095.3	3084.6
47.5°	10609.8	6648.5	3169.8	3517.7	3989.8	4227.6	3865.5	3404.1	3091.8	3098.8	3127.2
50°	10379.1	6360.9	3095.3	3393.4	3918.8	4131.7	3659.7	3272.8	3059.8	3148.5	3198.2
52.5°	10084.5	6066.3	2942.7	3226.6	3773.3	3982.7	3563.8	3265.7	3027.9	2999.4	3010.1
55°	10173.2	5824.9	2729.7	2999.4	3539.0	3705.8	3457.3	3198.2	2949.7	2843.2	2878.8
56°	9885.7	5576.4	2591.3	2857.5	3379.3	3528.4	3404.1	3137.9	2885.8	2814.9	2814.9
57.5°	9072.9	4742.3	2410.2	2630.3	3042.0	3219.5	3301.1	3102.4	2814.9	2690.6	2694.1
60°	6691.0	3372.1	2161.7	2317.9	2520.2	2662.2	3042.0	3003.0	2637.4	2552.2	2520.2
62.5°	4124.7	2463.5	1984.2	2044.6	2147.5	2264.7	2655.2	2719.0	2449.2	2357.0	2335.7
65°	2310.8	1884.8	1849.4	1874.2	1923.9	1984.2	2204.3	2346.3	2161.7	2019.7	2012.6
67.5°	1689.6	1686.0	1714.5	1735.8	1757.1	1757.1	1810.3	1867.1	1842.2	1728.6	1718.0
70°	1501.5	1512.1	1533.4	1537.0	1544.1	1519.3	1476.7	1458.9	1487.3	1416.3	1402.1
72.5°	1238.8	1274.3	1299.2	1302.7	1263.7	1231.7	1174.9	1114.6	1093.3	1079.1	1075.5
75°	951.3	976.2	986.8	983.2	969.0	922.9	855.4	795.1	756.1	713.5	734.8
77.5°	642.5	678.0	695.7	695.7	674.4	603.5	571.5	525.3	486.3	440.1	447.2
80°	450.8	475.7	504.0	500.5	465.0	429.5	383.4	340.8	308.8	273.3	269.7
82.5°	337.2	351.4	365.6	358.5	333.6	298.2	266.2	227.1	191.7	166.9	166.9
85°	120.7	131.3	159.7	166.9	181.0	181.0	152.6	127.8	103.0	85.2	85.2
87.5°	35.5	35.5	39.1	39.1	35.5	39.1	31.9	35.5	39.1	24.8	24.8
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)