

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: P652468

Luminaire Tested: **GALN-SA6B-840-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652468  
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-SA6B-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 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: 20834.1 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

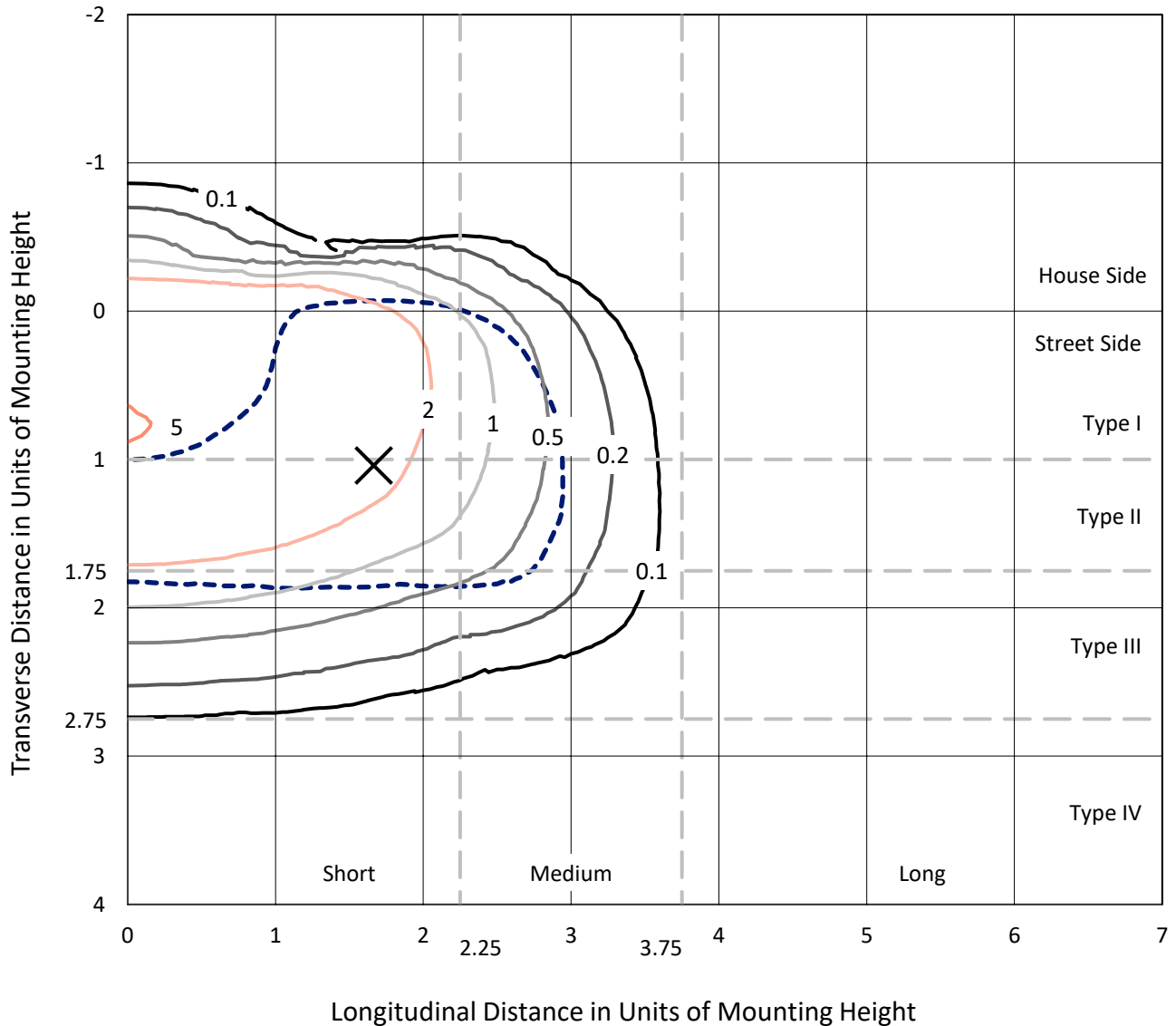
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

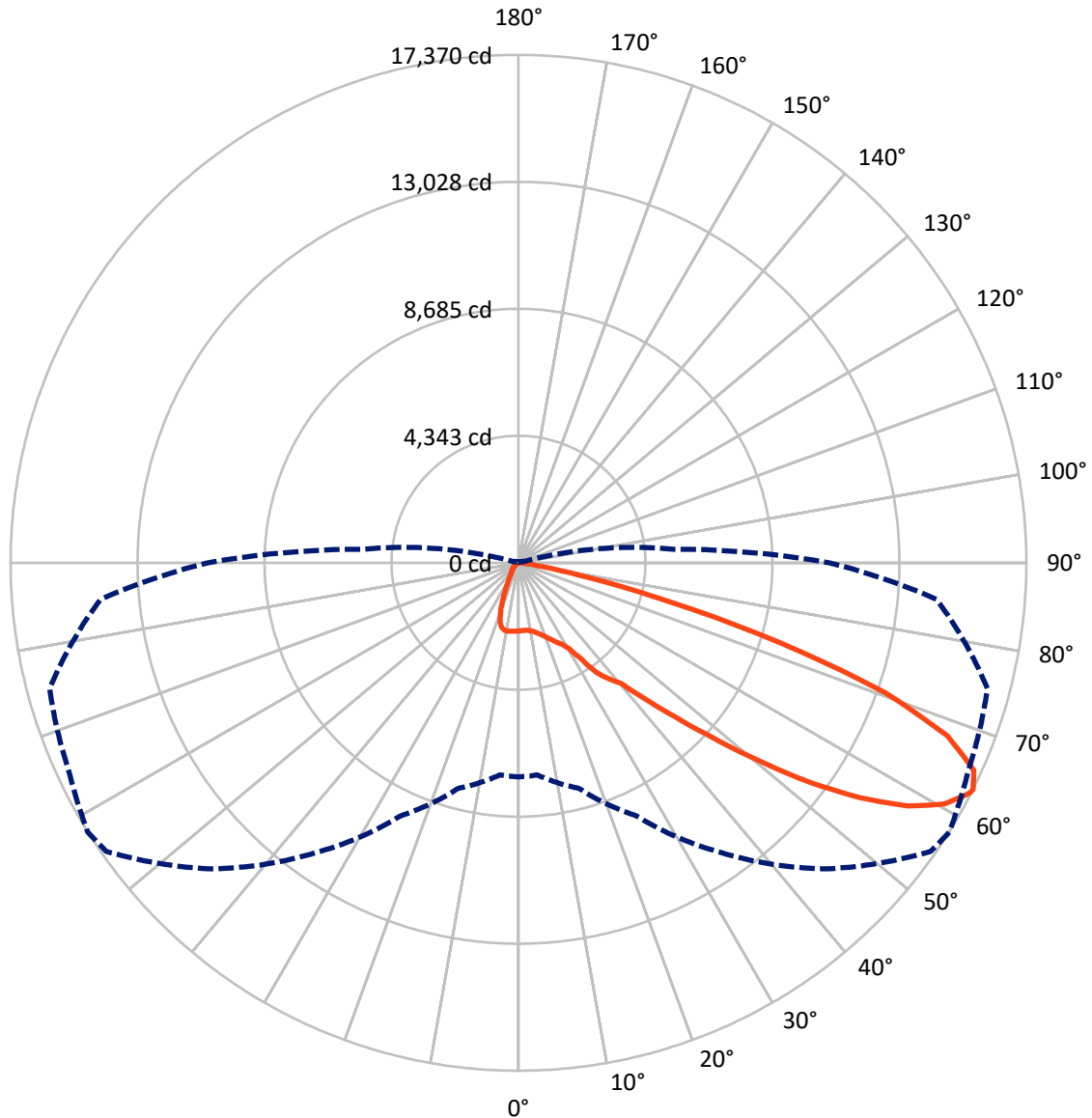
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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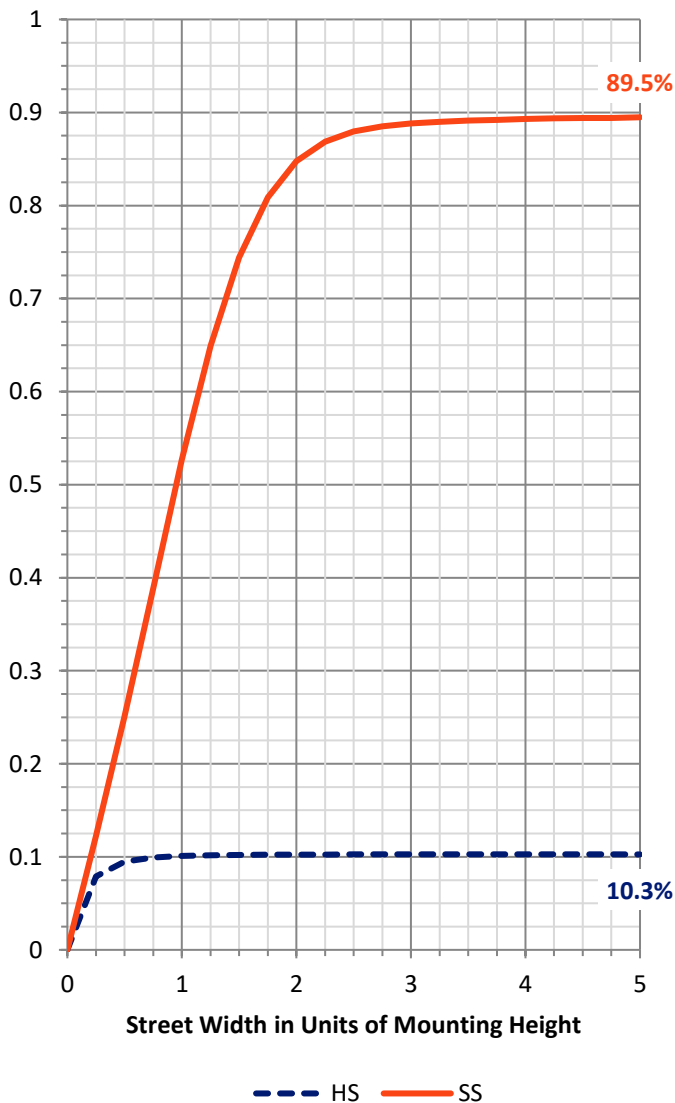
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2157.2	0.0	2157.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	18676.9	0.0	18676.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	20834.1	0.0	20834.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.3	1.0
10°-20°	594.7	2.9
20°-30°	1032.1	5.0
30°-40°	1896.7	9.1
40°-50°	3570.5	17.1
50°-60°	6107.0	29.3
60°-70°	5847.4	28.1
70°-80°	1491.1	7.2
80°-90°	76.2	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°	20834.1	100.0
0°-180°	20834.1	100.0

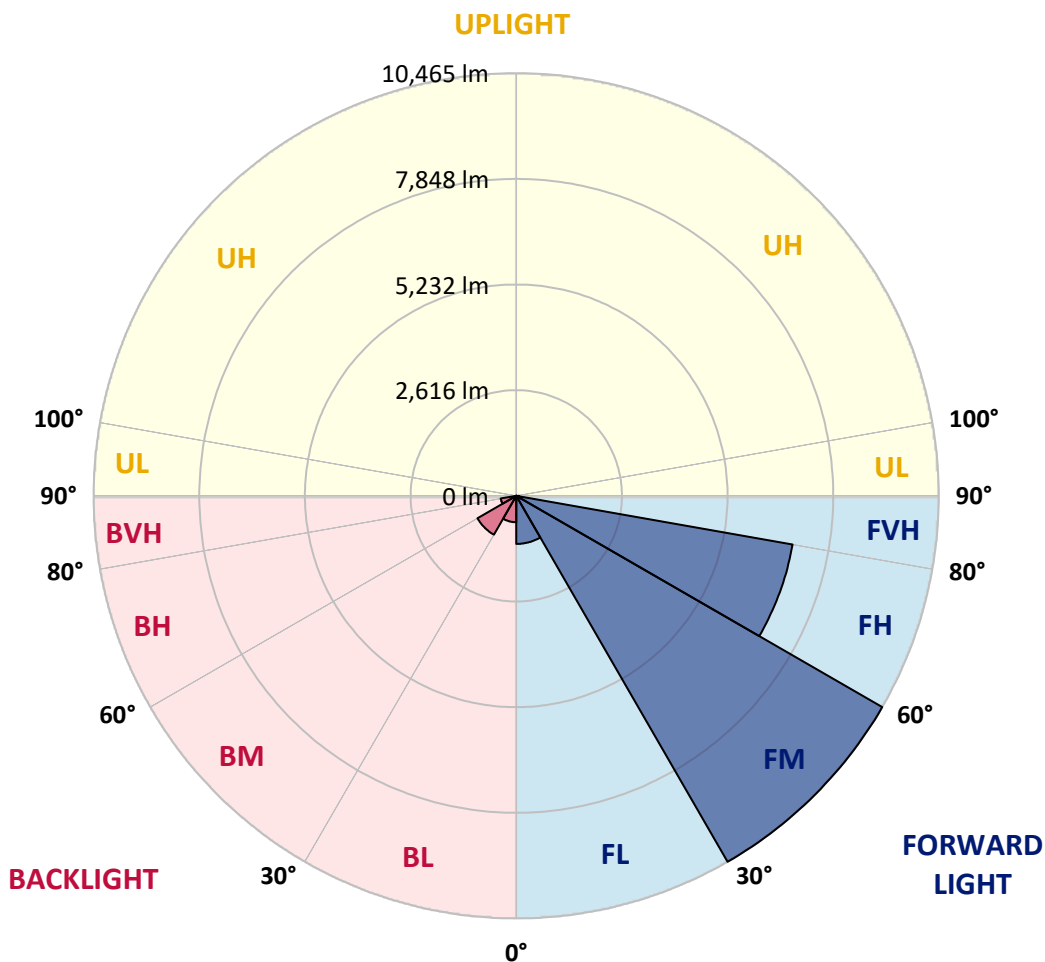


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1191.0	5.7			
FM (30°-60°)	10464.6	50.2			
FH (60°-80°)	6948.1	33.3			G3/7500
FVH (80°-90°)	73.3	0.4			G1/100
BL (0°-30°)	654.2	3.1	B2/1000		
BM (30°-60°)	1109.6	5.3	B2/2500		
BH (60°-80°)	390.5	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4
2.5°	2274.4	2282.2	2290.1	2293.2	2304.3	2315.2	2323.0	2321.5	2334.0	2340.3	2340.3
5°	2183.4	2183.4	2203.8	2222.7	2254.0	2285.4	2315.2	2321.5	2345.0	2367.0	2374.8
7.5°	2106.6	2111.3	2127.0	2161.5	2203.8	2258.8	2318.3	2332.4	2373.2	2421.8	2442.3
10°	2070.5	2073.7	2094.0	2130.1	2183.4	2258.8	2341.8	2368.5	2431.2	2508.1	2536.4
12.5°	2062.6	2067.3	2087.8	2128.6	2189.7	2280.7	2393.7	2421.8	2512.8	2611.6	2654.0
15°	2076.8	2079.9	2100.3	2144.2	2211.7	2319.9	2462.6	2501.9	2610.1	2724.6	2779.5
17.5°	2127.0	2123.9	2138.0	2174.1	2249.3	2368.5	2545.8	2592.8	2719.9	2876.7	2912.8
20°	2340.3	2319.9	2307.4	2276.0	2305.8	2437.6	2646.2	2715.2	2872.0	3032.1	3057.1
22.5°	2799.9	2754.4	2665.0	2542.7	2448.6	2531.7	2767.0	2847.0	3049.3	3206.1	3206.1
25°	3384.9	3326.9	3237.5	2970.8	2740.3	2687.0	2903.4	3003.8	3242.2	3400.7	3348.9
27.5°	4117.5	4072.0	3897.9	3587.3	3234.4	2958.3	3061.8	3154.4	3413.2	3604.5	3496.4
30°	4713.6	4691.6	4548.8	4271.2	3882.2	3479.0	3356.8	3417.9	3640.6	3861.8	3750.4
32.5°	5217.1	5217.1	5071.1	4812.4	4448.5	4090.8	3857.1	3901.1	4114.3	4370.0	4163.0
35°	5770.8	5751.9	5634.3	5388.0	4980.2	4664.9	4569.2	4628.9	4821.8	5011.6	4501.8
37.5°	6352.7	6346.4	6224.1	5985.6	5653.1	5256.2	5032.0	5047.7	5146.5	5262.6	4898.7
40°	6984.8	6994.3	6834.2	6686.8	6373.1	5966.8	5537.1	5438.2	5530.8	5858.6	5631.2
42.5°	7731.5	7709.5	7640.5	7439.7	7187.2	6944.1	6428.0	6391.9	6473.4	6824.8	6578.6
45°	8598.9	8630.3	8511.0	8399.7	8230.3	8027.9	7596.6	7533.8	7623.2	8169.1	7819.3
47.5°	9467.9	9438.0	9514.9	9494.6	9585.5	9434.9	9053.8	8925.1	9140.1	9657.6	9143.2
50°	10129.8	10162.7	10322.8	10556.5	10947.0	11031.7	10666.2	10622.3	10718.0	11050.6	10327.4
52.5°	10559.6	10669.3	10920.4	11521.1	12225.4	12772.9	12495.2	12471.7	12432.4	12521.9	11460.0
55°	10840.3	10951.8	11279.6	12164.2	13376.7	14266.1	14280.3	14179.8	13921.0	13856.7	12518.7
57.5°	10667.8	10689.8	11157.2	12339.9	14015.1	15331.2	15792.3	15692.0	15213.5	14970.4	13453.6
60°	9588.7	9634.2	10285.1	11674.8	13737.5	15679.4	16794.6	16749.1	16225.2	15950.7	14181.4
62.5°	7676.6	7808.3	8478.1	10027.8	12446.5	15092.8	17200.9	17329.5	16921.7	16543.6	14410.5
63°	7325.2	7282.9	7990.3	9547.9	12104.6	14802.5	17207.2	17370.3	16953.0	16600.2	14347.7
65°	5422.5	5549.6	6009.2	7529.1	10073.3	13452.0	16819.7	17108.4	16837.0	16350.7	13652.8
67.5°	3044.6	3038.3	3546.5	4926.8	7050.7	10551.8	15208.8	15819.0	15762.5	14672.3	11317.2
70°	1490.2	1513.6	1722.3	2553.6	4089.3	7279.7	12638.0	13296.7	13317.2	11524.2	7825.6
72.5°	674.5	685.5	834.4	1243.8	2101.9	3875.9	8708.6	9337.7	9221.6	7344.0	4321.4
75°	356.1	379.6	459.6	625.9	1013.3	1598.4	4737.1	5345.6	5102.5	3355.2	1590.5
77.5°	263.5	271.4	312.2	398.4	542.7	622.8	2043.9	2431.2	2277.6	1214.1	527.1
80°	192.9	199.2	232.1	282.3	342.0	316.9	770.2	883.1	792.1	412.5	161.6
82.5°	117.7	119.2	169.4	210.2	214.9	177.3	254.1	272.9	285.5	232.1	87.8
85°	42.4	53.3	114.5	152.1	127.1	89.4	106.6	117.7	128.6	147.4	51.7
87.5°	4.7	6.3	54.9	73.8	36.1	33.0	39.2	43.9	47.1	54.9	25.1
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°	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4	2332.4
2.5°	2346.6	2352.9	2348.2	2340.3	2338.7	2334.0	2324.6	2324.6	2324.6	2327.7	2324.6
5°	2381.1	2385.7	2374.8	2359.1	2341.8	2319.9	2296.4	2282.2	2280.7	2277.6	2269.7
7.5°	2447.0	2453.2	2428.1	2390.5	2343.4	2290.1	2239.9	2192.8	2170.9	2153.6	2153.6
10°	2542.7	2548.9	2498.7	2431.2	2337.1	2228.9	2109.7	2001.5	1916.8	1877.5	1868.2
12.5°	2657.1	2660.3	2577.2	2459.5	2304.3	2095.6	1841.5	1604.6	1440.0	1364.7	1356.8
15°	2782.6	2760.7	2650.9	2470.5	2210.1	1821.1	1381.9	1091.7	920.7	870.5	889.4
17.5°	2909.7	2868.9	2707.3	2453.2	1998.4	1381.9	928.6	745.0	691.7	677.6	677.6
20°	3028.9	2972.4	2748.1	2377.9	1631.3	952.1	688.6	644.7	635.3	625.9	627.4
22.5°	3148.1	3061.8	2784.2	2210.1	1215.7	680.8	616.5	602.3	589.8	577.3	575.7
25°	3264.2	3145.0	2798.3	1899.6	828.2	585.1	563.1	544.3	519.2	505.1	501.9
27.5°	3384.9	3245.3	2788.9	1507.4	603.9	523.9	501.9	475.2	445.5	420.4	420.4
30°	3617.1	3436.7	2756.0	1083.9	508.2	461.1	432.9	390.6	357.6	332.5	330.9
32.5°	3933.9	3686.1	2643.0	762.3	451.8	406.3	363.9	316.9	282.3	263.5	263.5
35°	4216.3	3937.1	2431.2	561.5	406.3	353.0	301.2	255.7	229.0	216.5	211.8
37.5°	4646.1	4304.2	2139.5	456.4	362.3	305.9	252.6	210.2	188.2	178.8	178.8
40°	5290.7	4752.7	1781.9	400.0	320.0	260.4	210.2	177.3	160.0	149.0	149.0
42.5°	6090.8	5301.7	1419.5	359.2	280.8	224.3	175.7	150.6	134.9	127.1	125.5
45°	7097.8	5880.5	1093.3	321.5	249.4	191.3	149.0	127.1	111.3	106.6	108.2
47.5°	8148.7	6390.3	847.1	288.6	216.5	161.6	127.1	109.8	98.8	92.5	92.5
50°	9045.9	6741.7	643.1	251.0	191.3	136.5	111.3	98.8	89.4	86.3	84.7
52.5°	9795.7	6843.6	492.5	218.1	167.9	117.7	98.8	89.4	81.6	76.9	76.9
55°	10434.1	6754.2	385.9	183.5	141.2	101.9	87.8	80.0	70.6	65.9	64.3
57.5°	10807.4	6467.2	294.9	152.1	114.5	84.7	76.9	67.4	56.4	48.6	48.6
60°	10995.7	6050.0	225.9	125.5	87.8	67.4	62.7	50.2	39.2	33.0	31.4
62.5°	10769.8	5496.3	171.0	98.8	65.9	50.2	42.4	36.1	25.1	18.8	18.8
63°	10630.2	5336.2	164.7	94.1	61.1	47.1	39.2	33.0	22.0	17.2	15.7
65°	9690.6	4638.3	134.9	75.3	48.6	33.0	26.7	23.5	15.7	7.8	6.3
67.5°	7695.4	3548.1	106.6	56.4	34.5	23.5	15.7	14.1	4.7	0.0	0.0
70°	5202.9	2291.6	83.2	40.8	23.5	14.1	7.8	6.3	1.6	0.0	0.0
72.5°	2713.7	1174.9	64.3	29.8	14.1	9.4	4.7	1.6	0.0	0.0	0.0
75°	960.0	400.0	47.1	18.8	9.4	4.7	1.6	0.0	0.0	0.0	0.0
77.5°	290.1	149.0	29.8	14.1	6.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	101.9	54.9	17.2	9.4	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	50.2	26.7	11.0	7.8	4.7	1.6	0.0	0.0	0.0	0.0	0.0
85°	28.3	17.2	9.4	7.8	4.7	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	12.5	9.4	7.8	6.3	3.1	1.6	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)