

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: P647465

Luminaire Tested: **GALN-SA5D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647465  
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-SA5D-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA 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: 26480.3 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

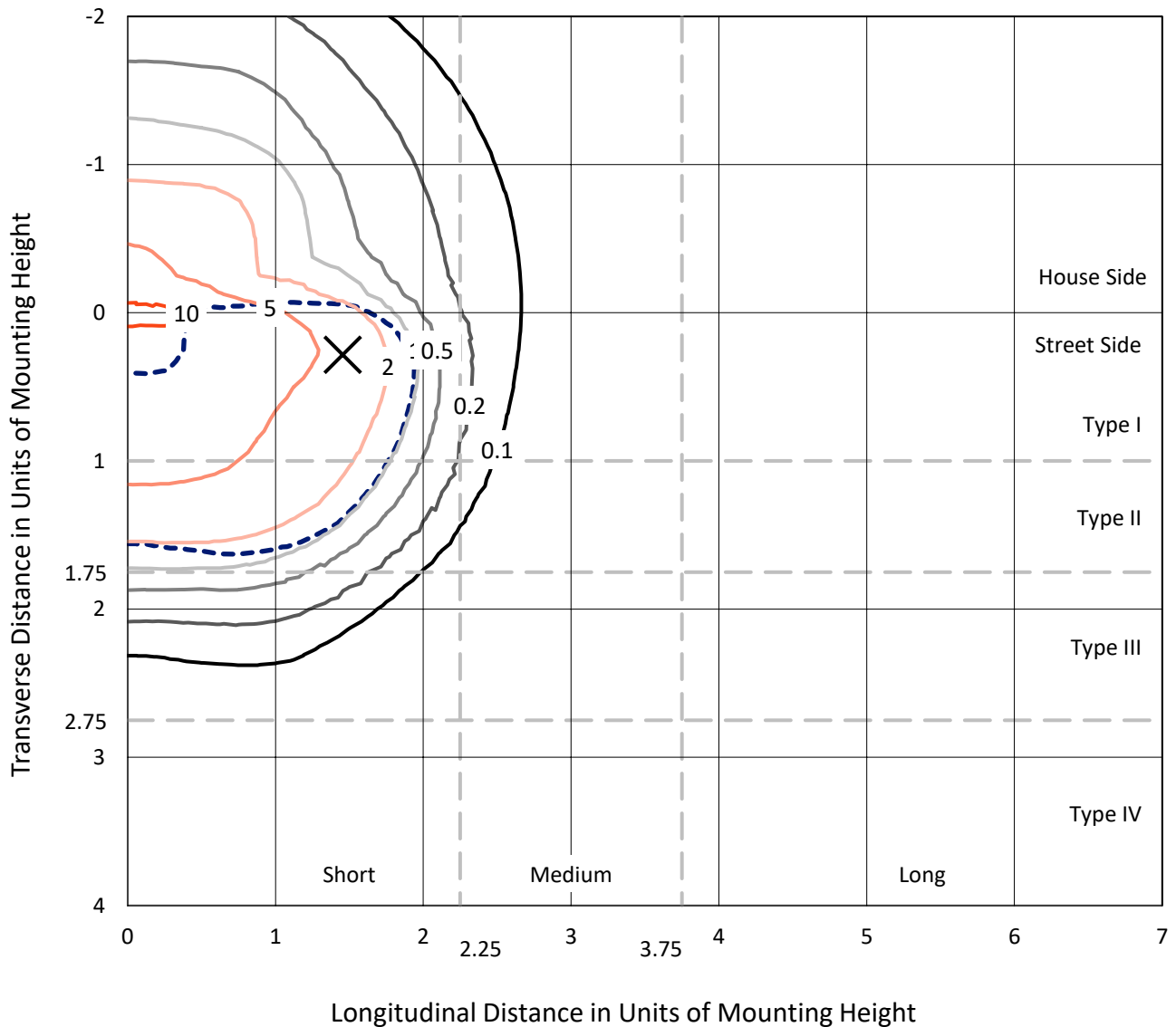
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

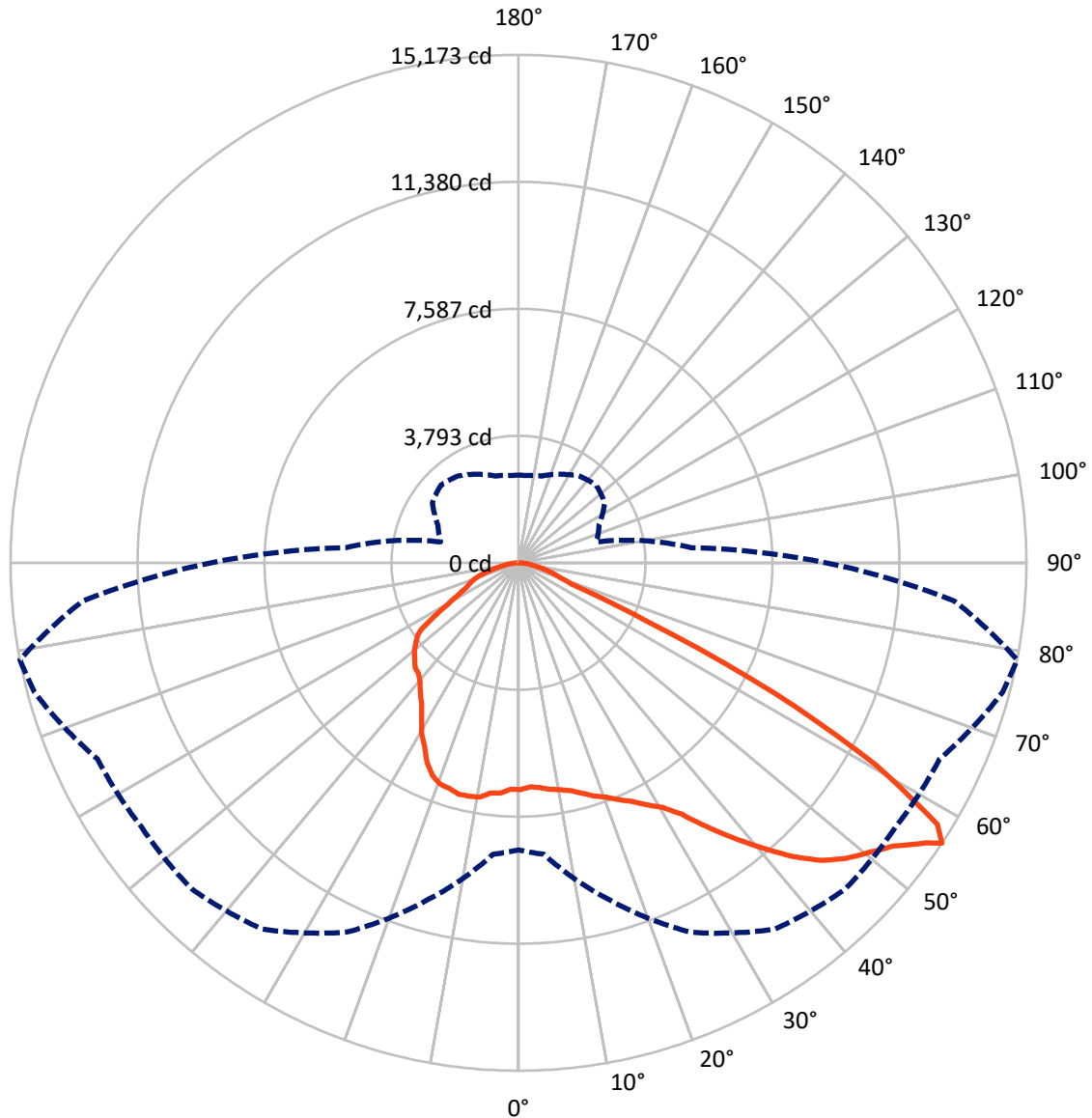
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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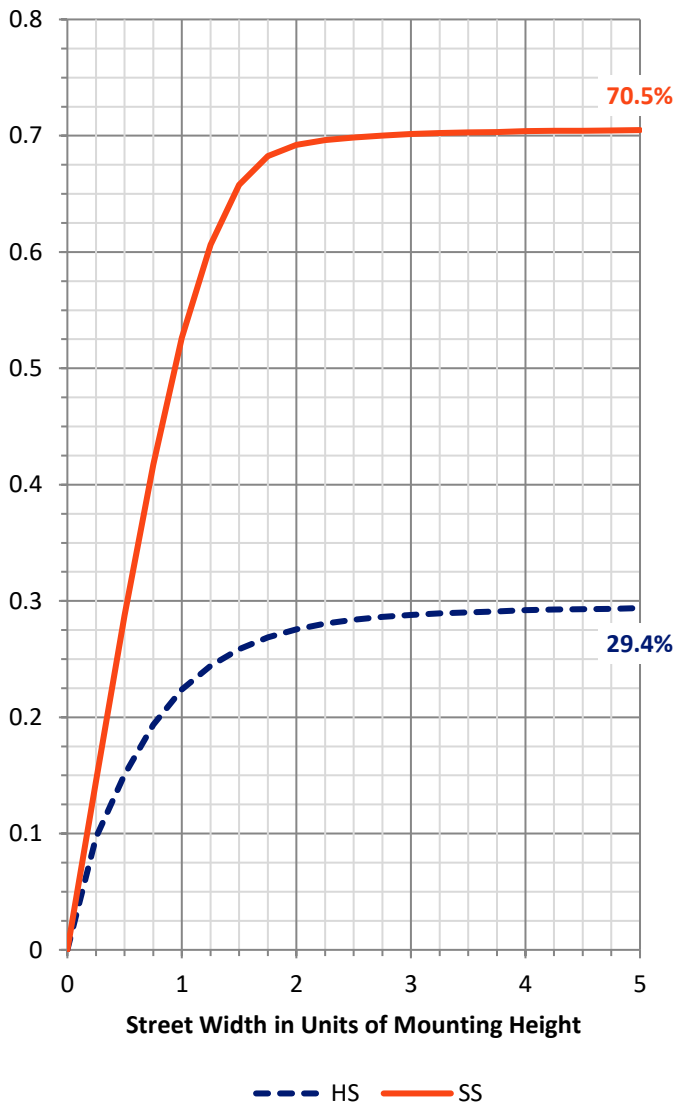
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7820.2	0.0	7820.2
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	18660.1	0.0	18660.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	26480.3	0.0	26480.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	616.0	2.3
10°-20°	1685.8	6.4
20°-30°	2884.1	10.9
30°-40°	4420.3	16.7
40°-50°	5974.0	22.6
50°-60°	6861.3	25.9
60°-70°	3127.6	11.8
70°-80°	771.1	2.9
80°-90°	140.2	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°	26480.3	100.0
0°-180°	26480.3	100.0

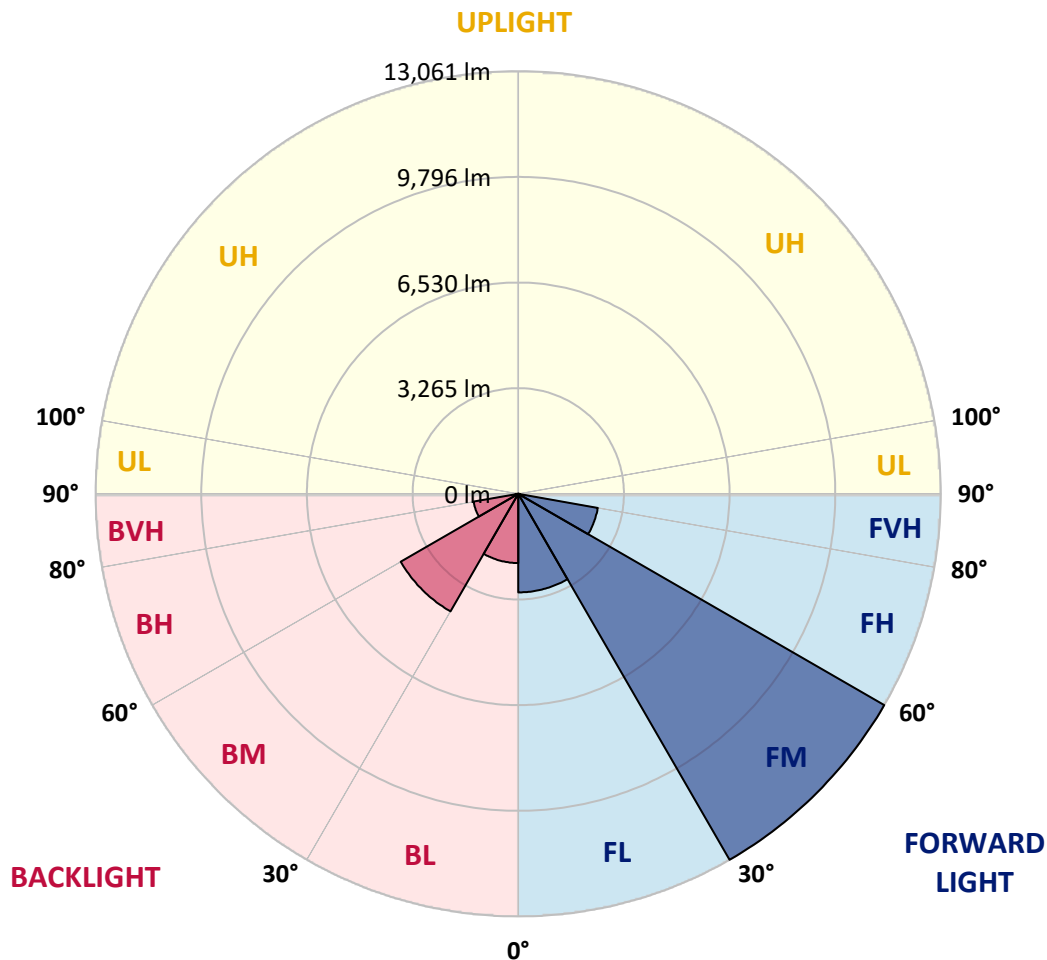


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3046.8	11.5			
FM (30°-60°)	13060.9	49.3			
FH (60°-80°)	2496.5	9.4			G2/5000
FVH (80°-90°)	56.0	0.2			G1/100
BL (0°-30°)	2139.2	8.1	B3/2500		
BM (30°-60°)	4194.7	15.8	B3/5000		
BH (60°-80°)	1402.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	84.2	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°	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2
2.5°	6445.4	6428.9	6468.5	6498.2	6534.4	6580.6	6603.7	6616.9	6732.4	6702.7	6791.7
5°	6306.8	6264.0	6293.7	6316.8	6379.4	6435.5	6498.2	6597.2	6702.7	6748.8	6857.7
7.5°	6184.8	6161.7	6155.2	6171.6	6257.3	6329.9	6438.8	6583.9	6755.5	6831.4	6894.0
10°	5983.6	5950.6	6000.1	6109.0	6132.1	6283.7	6409.1	6616.9	6765.4	6897.3	7082.0
12.5°	5894.5	5861.5	5871.5	5934.1	6095.7	6240.9	6389.4	6623.6	6936.9	6989.7	7237.0
15°	6036.4	6003.4	6013.3	5996.8	6151.8	6227.7	6461.9	6755.5	7055.6	7144.7	7408.6
17.5°	6359.6	6363.0	6320.1	6283.7	6247.5	6409.1	6570.8	6834.7	7101.8	7326.1	7524.0
20°	6976.5	6867.6	6781.9	6577.4	6521.3	6590.5	6795.0	7049.0	7289.8	7474.5	7698.8
22.5°	7451.5	7461.4	7339.3	7002.8	6880.8	6910.5	7085.3	7293.1	7557.0	7689.0	7946.3
25°	8140.9	8071.6	7939.6	7672.5	7398.6	7421.7	7550.4	7738.5	7811.0	7903.4	8183.8
27.5°	8770.9	8790.7	8530.1	8279.4	7939.6	7873.7	8104.6	8137.6	8015.5	8190.3	8286.0
30°	9410.8	9394.3	9222.8	8929.3	8596.1	8609.2	8711.5	8549.9	8381.6	8477.3	8543.3
32.5°	10073.8	9885.8	9879.2	9615.3	9361.3	9239.3	9114.0	9193.1	8932.5	8952.3	8889.6
35°	10604.9	10631.3	10479.5	10291.5	10166.2	9951.8	9608.7	9750.5	9701.1	9678.0	9407.5
37.5°	10990.8	10888.6	10964.4	10901.8	10783.0	10515.8	10159.6	10294.8	10317.9	10430.0	10116.7
40°	11307.5	11264.6	11465.8	11498.8	11416.4	10839.1	10199.2	10601.6	10947.9	11192.0	10819.3
42.5°	11459.2	11551.6	11762.7	12016.7	11832.0	11215.1	10403.6	10835.8	11607.7	11993.6	11485.6
45°	11663.7	11544.9	11858.4	12323.5	12326.8	11531.8	10601.6	11152.4	12122.2	12683.0	11940.8
47.5°	11455.9	11515.3	11838.6	12429.0	12580.7	11865.0	11136.0	11601.1	12689.6	13187.7	12363.0
50°	10990.8	11109.6	11700.0	12313.5	12772.1	12217.9	11749.5	12085.9	13214.1	13593.4	12432.3
52.5°	10505.9	10571.9	11495.5	12402.6	12857.8	12673.1	12570.8	12755.5	13854.0	14051.9	12518.1
55°	9186.5	9499.9	10819.3	12363.0	13276.7	13494.5	13415.3	13685.7	14579.7	14777.6	12986.4
56°	8576.3	8741.2	10413.6	12178.3	13359.2	13794.6	13755.0	13877.0	14965.6	15173.4	13059.0
57.5°	7448.1	7461.4	8879.8	11360.2	13049.2	13883.7	13844.1	13939.7	14889.8	14747.9	12422.4
60°	4660.9	4865.4	6043.0	8737.9	11096.4	12880.9	13105.2	12336.6	12554.3	12254.2	9664.8
62.5°	2414.5	2384.9	3166.6	5109.5	7365.7	9222.8	9430.6	9394.3	9057.9	8619.2	6313.5
65°	1203.9	1210.6	1655.9	2530.0	3773.6	4829.1	5409.7	5472.3	4578.4	4212.3	2995.1
67.5°	874.1	907.1	1190.8	1547.1	1778.0	1989.1	2437.6	2391.4	1810.9	1721.8	1596.5
70°	679.5	709.2	966.5	1180.9	1072.0	1072.0	1167.7	1207.3	1289.8	1326.0	1368.9
72.5°	494.8	517.9	738.9	814.7	702.6	755.4	874.1	966.5	1052.3	1065.4	1114.9
75°	339.7	359.6	484.9	448.6	422.2	521.2	639.9	725.7	788.3	821.4	851.0
77.5°	221.0	227.6	277.1	234.2	270.4	336.5	415.6	488.2	550.8	577.2	583.9
80°	99.0	108.8	118.8	148.5	188.0	240.8	296.8	356.3	395.8	405.8	425.5
82.5°	56.1	56.1	72.6	105.5	138.5	174.8	214.4	257.3	303.5	313.4	310.1
85°	29.7	29.7	42.9	62.6	85.7	102.3	99.0	102.3	108.8	125.4	122.1
87.5°	9.9	9.9	13.2	13.2	16.5	19.8	16.5	23.1	29.7	29.7	29.7
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°	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2	6775.2
2.5°	6765.4	6795.0	6755.5	6841.2	6841.2	6824.7	6742.3	6768.6	6788.5	6788.5	6805.0
5°	6894.0	6884.1	6910.5	6808.3	6745.5	6722.4	6587.2	6521.3	6465.2	6461.9	6412.4
7.5°	6966.6	6940.2	6930.3	6854.4	6577.4	6409.1	6118.8	5950.6	5914.3	5785.7	5835.2
10°	7082.0	7131.5	7082.0	6669.7	6283.7	5897.9	5614.2	5353.6	5251.3	5168.8	5119.4
12.5°	7319.5	7296.5	7009.4	6452.0	5911.0	5452.5	5030.3	4756.6	4654.3	4581.7	4575.1
15°	7520.7	7405.3	6966.6	6109.0	5330.5	4842.3	4495.9	4301.3	4255.1	4261.7	4291.5
17.5°	7590.0	7510.8	6742.3	5752.7	4898.4	4324.4	4162.8	4133.1	4176.0	4225.5	4238.7
20°	7698.8	7573.5	6649.9	5267.8	4364.0	4001.1	3991.3	4096.8	4176.0	4248.6	4258.4
22.5°	7926.5	7609.8	6349.7	4809.3	3997.8	3905.5	4001.1	4090.2	4212.3	4271.7	4218.9
25°	7992.4	7530.7	5927.5	4258.4	3766.9	3846.1	3948.4	4070.4	4156.2	4189.2	4212.3
27.5°	8048.5	7408.6	5356.9	3892.3	3694.4	3842.8	3948.4	4050.6	4096.8	4126.5	4152.9
30°	8206.9	7372.3	4862.1	3648.2	3648.2	3776.9	3912.1	3938.5	4001.1	4037.5	4083.7
32.5°	8286.0	7121.6	4354.1	3493.2	3602.0	3809.8	3819.7	3869.2	3872.5	3902.2	3852.8
35°	8493.8	6943.5	3882.4	3381.0	3621.8	3776.9	3826.4	3796.6	3635.0	3555.8	3572.4
37.5°	8645.6	6854.4	3542.7	3367.8	3625.1	3813.1	3839.5	3615.2	3447.0	3315.1	3348.0
40°	9054.5	6633.4	3285.4	3344.7	3654.8	3852.8	3780.2	3536.0	3232.6	3097.4	3074.3
42.5°	9367.9	6475.1	3123.8	3318.4	3677.9	3908.8	3750.5	3377.7	3067.6	2942.4	2975.3
45°	9730.7	6438.8	3038.0	3324.9	3717.4	3938.5	3714.2	3255.7	2925.8	2876.4	2866.5
47.5°	9859.4	6178.2	2945.6	3268.9	3707.6	3928.6	3592.2	3163.3	2873.1	2879.6	2906.0
50°	9645.0	5911.0	2876.4	3153.5	3641.7	3839.5	3400.8	3041.3	2843.4	2925.8	2972.0
52.5°	9371.3	5637.3	2734.5	2998.4	3506.4	3701.0	3311.8	3034.7	2813.7	2787.3	2797.2
55°	9453.7	5413.0	2536.6	2787.3	3288.7	3443.7	3212.8	2972.0	2741.1	2642.2	2675.1
56°	9186.5	5182.1	2408.0	2655.3	3140.2	3278.8	3163.3	2916.0	2681.7	2615.8	2615.8
57.5°	8431.1	4406.9	2239.7	2444.2	2826.9	2991.8	3067.6	2882.9	2615.8	2500.3	2503.6
60°	6217.8	3133.6	2008.9	2154.0	2342.0	2473.9	2826.9	2790.6	2450.9	2371.7	2342.0
62.5°	3832.9	2289.2	1843.9	1899.9	1995.6	2104.5	2467.3	2526.7	2276.0	2190.3	2170.5
65°	2147.4	1751.6	1718.5	1741.6	1787.8	1843.9	2048.4	2180.3	2008.9	1876.9	1870.3
67.5°	1570.1	1566.8	1593.2	1613.0	1632.8	1632.8	1682.3	1735.0	1712.0	1606.4	1596.5
70°	1395.3	1405.2	1425.0	1428.3	1434.8	1411.7	1372.2	1355.7	1382.1	1316.1	1302.9
72.5°	1151.2	1184.2	1207.3	1210.6	1174.3	1144.6	1091.8	1035.8	1015.9	1002.8	999.5
75°	884.0	907.1	917.0	913.7	900.5	857.6	795.0	738.9	702.6	663.0	682.8
77.5°	597.0	630.0	646.5	646.5	626.7	560.8	531.0	488.2	451.9	409.0	415.6
80°	418.9	442.0	468.4	465.1	432.1	399.1	356.3	316.6	287.0	254.0	250.7
82.5°	313.4	326.6	339.7	333.2	310.1	277.1	247.4	211.1	178.1	155.0	155.0
85°	112.1	122.1	148.5	155.0	168.2	168.2	141.8	118.8	95.7	79.2	79.2
87.5°	33.0	33.0	36.3	36.3	33.0	36.3	29.7	33.0	36.3	23.1	23.1
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)