

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: P530300

Luminaire Tested: **GALN-SA5C-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530300  
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-SA5C-730-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 27990 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

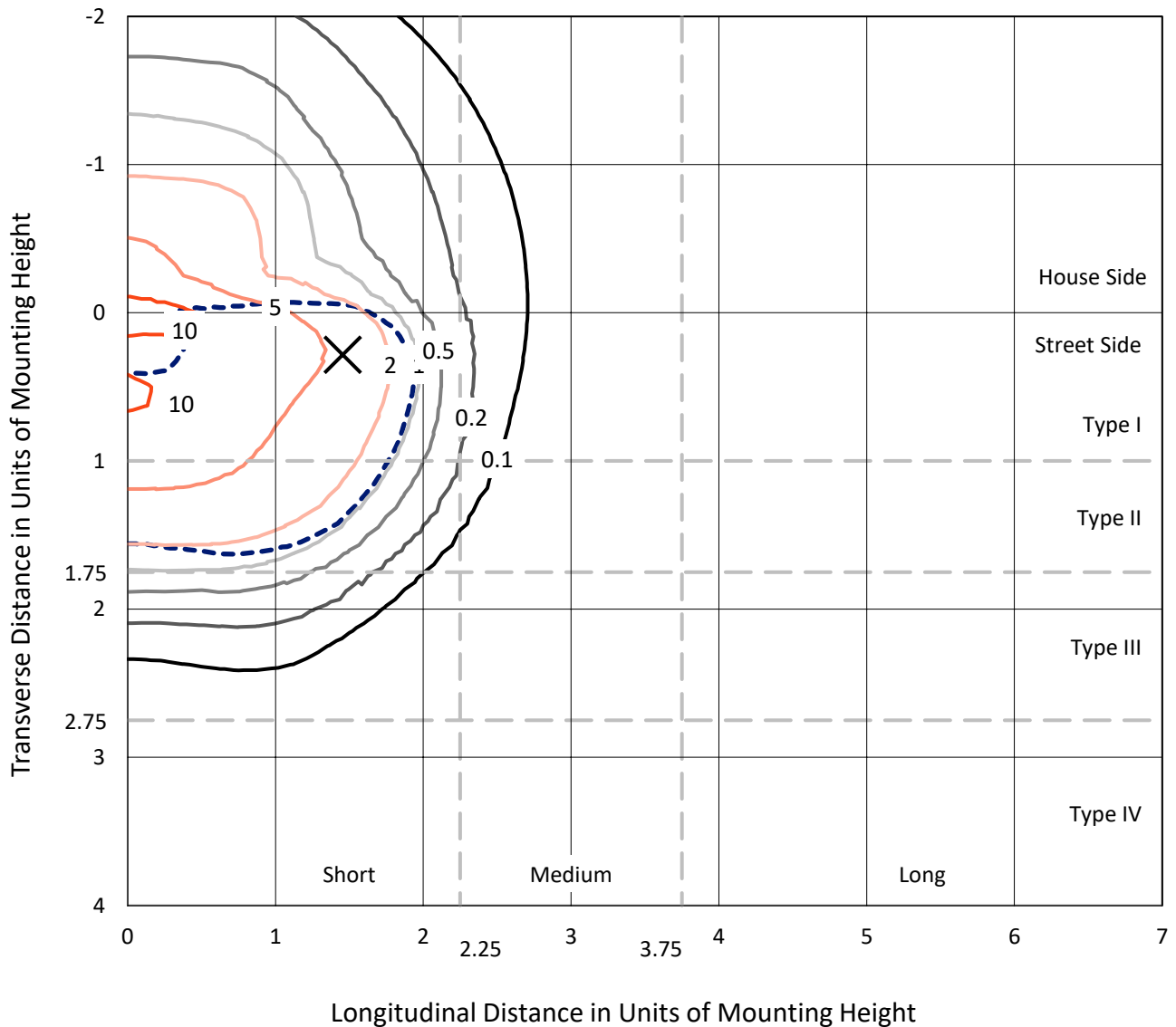
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

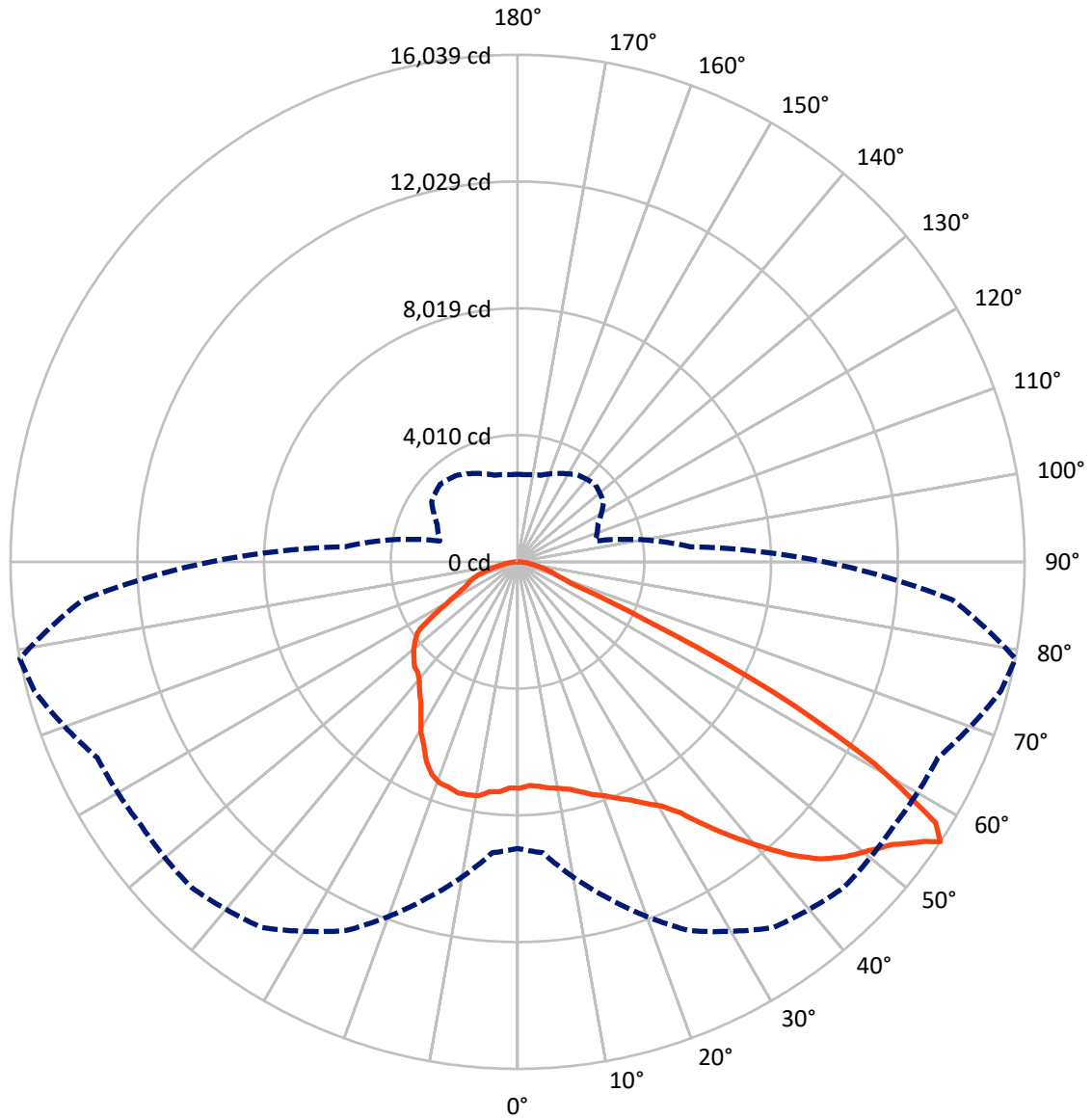
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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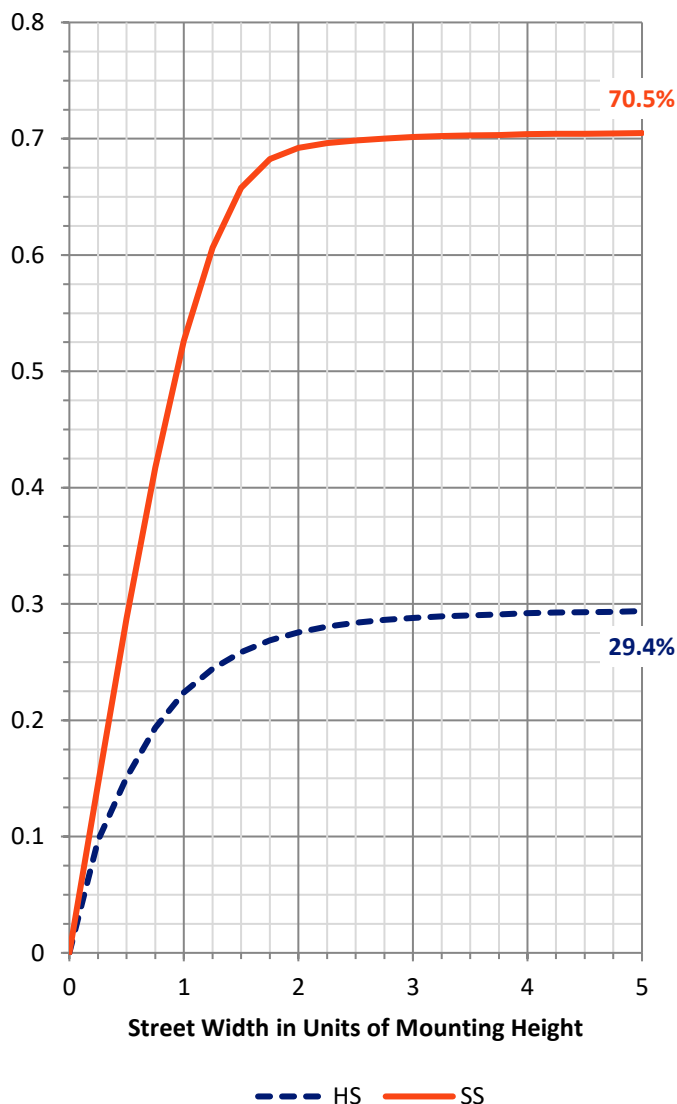
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8266.1	0.0	8266.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	19723.9	0.0	19723.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	27990.0	0.0	27990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	651.1	2.3
10°-20°	1781.9	6.4
20°-30°	3048.5	10.9
30°-40°	4672.3	16.7
40°-50°	6314.5	22.6
50°-60°	7252.5	25.9
60°-70°	3305.9	11.8
70°-80°	815.1	2.9
80°-90°	148.1	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°	27990.0	100.0
0°-180°	27990.0	100.0

**Coefficient of Utilization**



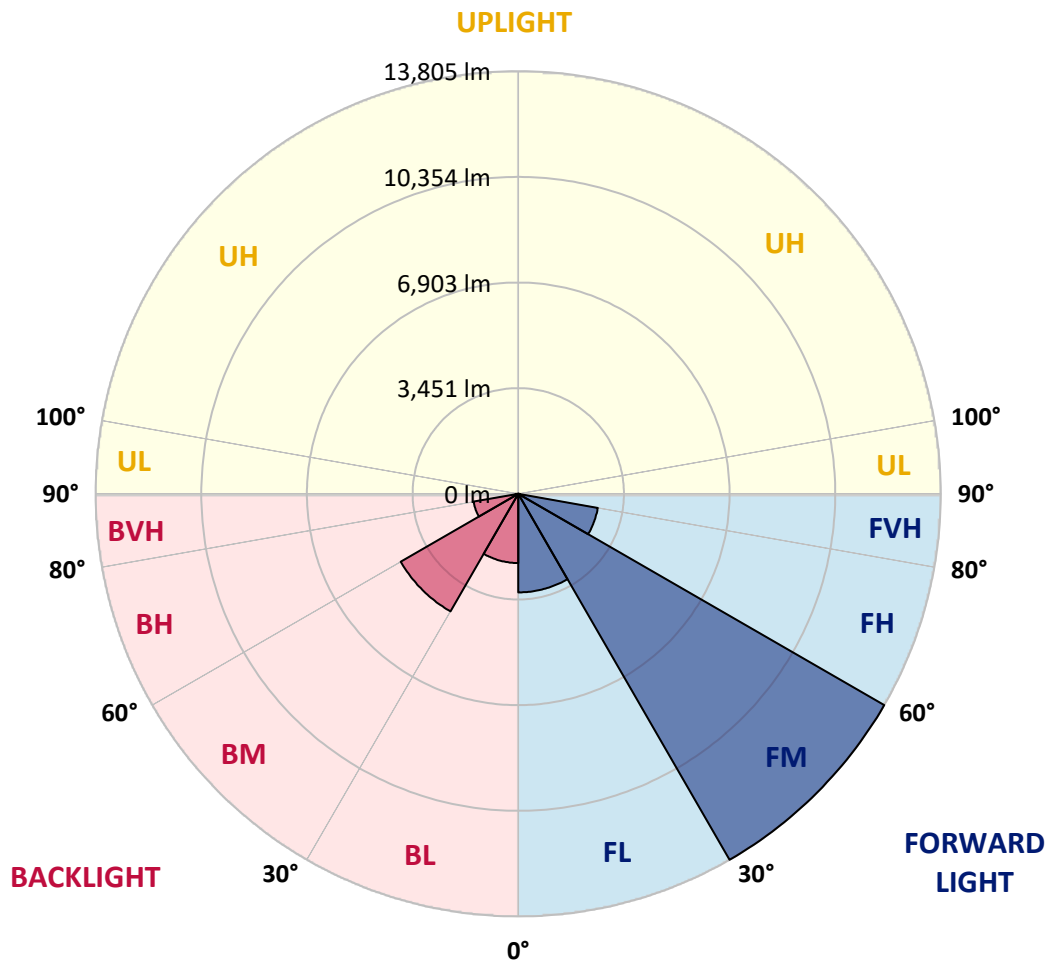
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3220.5	11.5			
FM (30°-60°)	13805.5	49.3			
FH (60°-80°)	2638.8	9.4			G2/5000
FVH (80°-90°)	59.1	0.2			G1/100
BL (0°-30°)	2261.1	8.1	B3/2500		
BM (30°-60°)	4433.8	15.8	B3/5000		
BH (60°-80°)	1482.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	89.0	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°	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5
2.5°	6812.9	6795.4	6837.3	6868.7	6907.0	6955.8	6980.2	6994.2	7116.2	7084.8	7179.0
5°	6666.4	6621.1	6652.5	6676.9	6743.1	6802.4	6868.7	6973.3	7084.8	7133.6	7248.7
7.5°	6537.4	6513.0	6506.0	6523.5	6614.1	6690.8	6805.9	6959.3	7140.6	7220.8	7287.1
10°	6324.7	6289.9	6342.2	6457.2	6481.6	6642.0	6774.5	6994.2	7151.1	7290.5	7485.8
12.5°	6230.6	6195.7	6206.2	6272.4	6443.3	6596.7	6753.6	7001.1	7332.4	7388.2	7649.7
15°	6380.5	6345.7	6356.1	6338.7	6502.6	6582.8	6830.3	7140.6	7457.9	7552.0	7831.0
17.5°	6722.2	6725.7	6680.4	6642.0	6603.7	6774.5	6945.4	7224.3	7506.7	7743.8	7953.0
20°	7374.2	7259.2	7168.5	6952.3	6893.1	6966.3	7182.5	7450.9	7705.4	7900.7	8137.8
22.5°	7876.3	7886.8	7757.7	7402.1	7273.1	7304.5	7489.3	7708.9	7987.9	8127.3	8399.3
25°	8605.0	8531.8	8392.3	8109.9	7820.5	7844.9	7980.9	8179.6	8256.3	8354.0	8650.3
27.5°	9270.9	9291.9	9016.4	8751.4	8392.3	8322.6	8566.6	8601.5	8472.5	8657.3	8758.4
30°	9947.3	9929.9	9748.6	9438.3	9086.2	9100.1	9208.2	9037.3	8859.5	8960.6	9030.4
32.5°	10648.2	10449.4	10442.4	10163.5	9895.0	9766.0	9633.6	9717.2	9441.8	9462.7	9396.5
35°	11209.5	11237.4	11077.0	10878.3	10745.8	10519.2	10156.5	10306.5	10254.2	10229.8	9943.9
37.5°	11617.4	11509.4	11589.5	11523.3	11397.8	11115.4	10738.8	10881.8	10906.2	11024.7	10693.5
40°	11952.2	11906.8	12119.5	12154.4	12067.2	11457.1	10780.7	11206.0	11572.1	11830.1	11436.1
42.5°	12112.5	12210.2	12433.3	12701.8	12506.5	11854.5	10996.8	11453.6	12269.4	12677.4	12140.4
45°	12328.7	12203.2	12534.4	13026.0	13029.5	12189.2	11206.0	11788.3	12813.4	13406.1	12621.6
47.5°	12109.1	12171.8	12513.5	13137.6	13298.0	12541.4	11770.9	12262.5	13413.1	13939.5	13067.9
50°	11617.4	11743.0	12367.1	13015.6	13500.2	12914.5	12419.4	12775.0	13967.4	14368.4	13141.1
52.5°	11104.9	11174.6	12150.9	13109.7	13590.9	13395.6	13287.5	13482.8	14643.8	14853.0	13231.8
55°	9710.3	10041.5	11436.1	13067.9	14033.7	14263.8	14180.1	14466.0	15410.9	15620.1	13726.9
56°	9065.2	9239.6	11007.3	12872.6	14120.8	14581.1	14539.2	14668.2	15818.8	16038.5	13803.6
57.5°	7872.8	7886.8	9386.0	12007.9	13793.1	14675.2	14633.4	14734.5	15738.6	15588.7	13130.6
60°	4926.6	5142.8	6387.5	9236.1	11729.0	13615.3	13852.4	13040.0	13270.1	12952.8	10215.8
62.5°	2552.2	2520.8	3347.2	5400.8	7785.6	9748.6	9968.3	9929.9	9574.3	9110.6	6673.4
65°	1272.6	1279.6	1750.3	2674.2	3988.7	5104.4	5718.1	5784.3	4839.4	4452.4	3165.9
67.5°	924.0	958.8	1258.7	1635.2	1879.3	2102.4	2576.6	2527.8	1914.2	1820.0	1687.5
70°	718.2	749.6	1021.6	1248.2	1133.2	1133.2	1234.3	1276.1	1363.3	1401.6	1447.0
72.5°	523.0	547.4	781.0	861.2	742.7	798.4	924.0	1021.6	1112.2	1126.2	1178.5
75°	359.1	380.0	512.5	474.2	446.3	550.9	676.4	767.1	833.3	868.2	899.5
77.5°	233.6	240.6	292.9	247.6	285.9	355.6	439.3	516.0	582.3	610.2	617.1
80°	104.6	115.1	125.5	156.9	198.7	254.5	313.8	376.6	418.4	428.9	449.8
82.5°	59.3	59.3	76.7	111.6	146.4	184.8	226.6	272.0	320.8	331.2	327.7
85°	31.4	31.4	45.3	66.2	90.7	108.1	104.6	108.1	115.1	132.5	129.0
87.5°	10.5	10.5	13.9	13.9	17.4	20.9	17.4	24.4	31.4	31.4	31.4
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°	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5	7161.5
2.5°	7151.1	7182.5	7140.6	7231.3	7231.3	7213.8	7126.7	7154.6	7175.5	7175.5	7192.9
5°	7287.1	7276.6	7304.5	7196.4	7130.2	7105.7	6962.8	6893.1	6833.8	6830.3	6778.0
7.5°	7363.8	7335.9	7325.4	7245.2	6952.3	6774.5	6467.7	6289.9	6251.5	6115.5	6167.8
10°	7485.8	7538.1	7485.8	7050.0	6642.0	6234.1	5934.2	5658.8	5550.7	5463.5	5411.2
12.5°	7736.8	7712.4	7409.1	6819.8	6248.0	5763.4	5317.1	5027.7	4919.6	4842.9	4836.0
15°	7949.5	7827.5	7363.8	6457.2	5634.4	5118.4	4752.3	4546.6	4497.7	4504.7	4536.1
17.5°	8022.7	7939.1	7126.7	6080.7	5177.6	4571.0	4400.1	4368.7	4414.1	4466.4	4480.3
20°	8137.8	8005.3	7029.0	5568.1	4612.8	4229.3	4218.8	4330.4	4414.1	4490.8	4501.2
22.5°	8378.4	8043.6	6711.8	5083.5	4225.8	4128.2	4229.3	4323.4	4452.4	4515.2	4459.4
25°	8448.1	7960.0	6265.5	4501.2	3981.7	4065.4	4173.5	4302.5	4393.2	4428.0	4452.4
27.5°	8507.4	7831.0	5662.3	4114.2	3905.0	4061.9	4173.5	4281.6	4330.4	4361.8	4389.7
30°	8674.7	7792.6	5139.3	3856.2	3856.2	3992.2	4135.1	4163.0	4229.3	4267.6	4316.4
32.5°	8758.4	7527.6	4602.3	3692.3	3807.4	4027.1	4037.5	4089.8	4093.3	4124.7	4072.4
35°	8978.1	7339.4	4103.8	3573.8	3828.3	3992.2	4044.5	4013.1	3842.3	3758.6	3776.0
37.5°	9138.5	7245.2	3744.6	3559.8	3831.8	4030.5	4058.4	3821.3	3643.5	3504.1	3538.9
40°	9570.8	7011.6	3472.7	3535.4	3863.2	4072.4	3995.7	3737.7	3416.9	3273.9	3249.5
42.5°	9902.0	6844.2	3301.8	3507.5	3887.6	4131.7	3964.3	3570.3	3242.6	3110.1	3144.9
45°	10285.6	6805.9	3211.2	3514.5	3929.4	4163.0	3925.9	3441.3	3092.6	3040.3	3029.9
47.5°	10421.5	6530.5	3113.6	3455.2	3919.0	4152.6	3796.9	3343.7	3036.9	3043.8	3071.7
50°	10194.9	6248.0	3040.3	3333.2	3849.2	4058.4	3594.7	3214.7	3005.5	3092.6	3141.5
52.5°	9905.5	5958.6	2890.4	3169.3	3706.3	3912.0	3500.6	3207.7	2974.1	2946.2	2956.7
55°	9992.7	5721.6	2681.2	2946.2	3476.2	3640.0	3396.0	3141.5	2897.4	2792.8	2827.7
56°	9710.3	5477.5	2545.2	2806.7	3319.3	3465.7	3343.7	3082.2	2834.6	2764.9	2764.9
57.5°	8911.8	4658.1	2367.4	2583.6	2988.0	3162.4	3242.6	3047.3	2764.9	2642.9	2646.4
60°	6572.3	3312.3	2123.4	2276.8	2475.5	2615.0	2988.0	2949.7	2590.6	2506.9	2475.5
62.5°	4051.5	2419.7	1949.0	2008.3	2109.4	2224.5	2608.0	2670.8	2405.8	2315.1	2294.2
65°	2269.8	1851.4	1816.5	1840.9	1889.8	1949.0	2165.2	2304.7	2123.4	1983.9	1976.9
67.5°	1659.6	1656.1	1684.0	1705.0	1725.9	1725.9	1778.2	1834.0	1809.6	1698.0	1687.5
70°	1474.8	1485.3	1506.2	1509.7	1516.7	1492.3	1450.4	1433.0	1460.9	1391.2	1377.2
72.5°	1216.8	1251.7	1276.1	1279.6	1241.2	1209.9	1154.1	1094.8	1073.9	1059.9	1056.4
75°	934.4	958.8	969.3	965.8	951.8	906.5	840.3	781.0	742.7	700.8	721.7
77.5°	631.1	665.9	683.4	683.4	662.5	592.7	561.3	516.0	477.7	432.3	439.3
80°	442.8	467.2	495.1	491.6	456.7	421.9	376.6	334.7	303.3	268.5	265.0
82.5°	331.2	345.2	359.1	352.1	327.7	292.9	261.5	223.1	188.3	163.9	163.9
85°	118.5	129.0	156.9	163.9	177.8	177.8	149.9	125.5	101.1	83.7	83.7
87.5°	34.9	34.9	38.4	38.4	34.9	38.4	31.4	34.9	38.4	24.4	24.4
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)