

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: P457202

Luminaire Tested: **GALN-SA8C-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40479 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

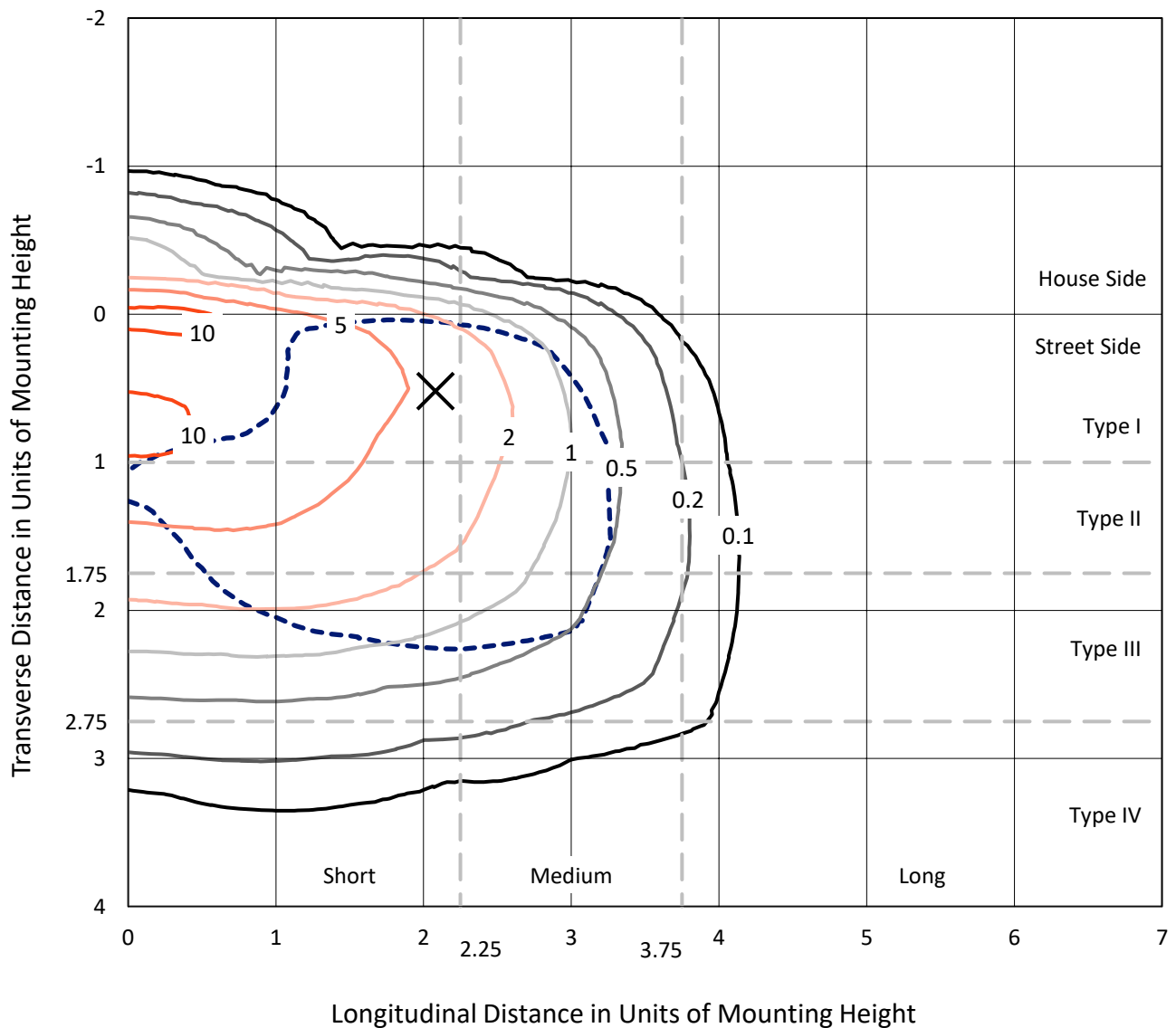
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

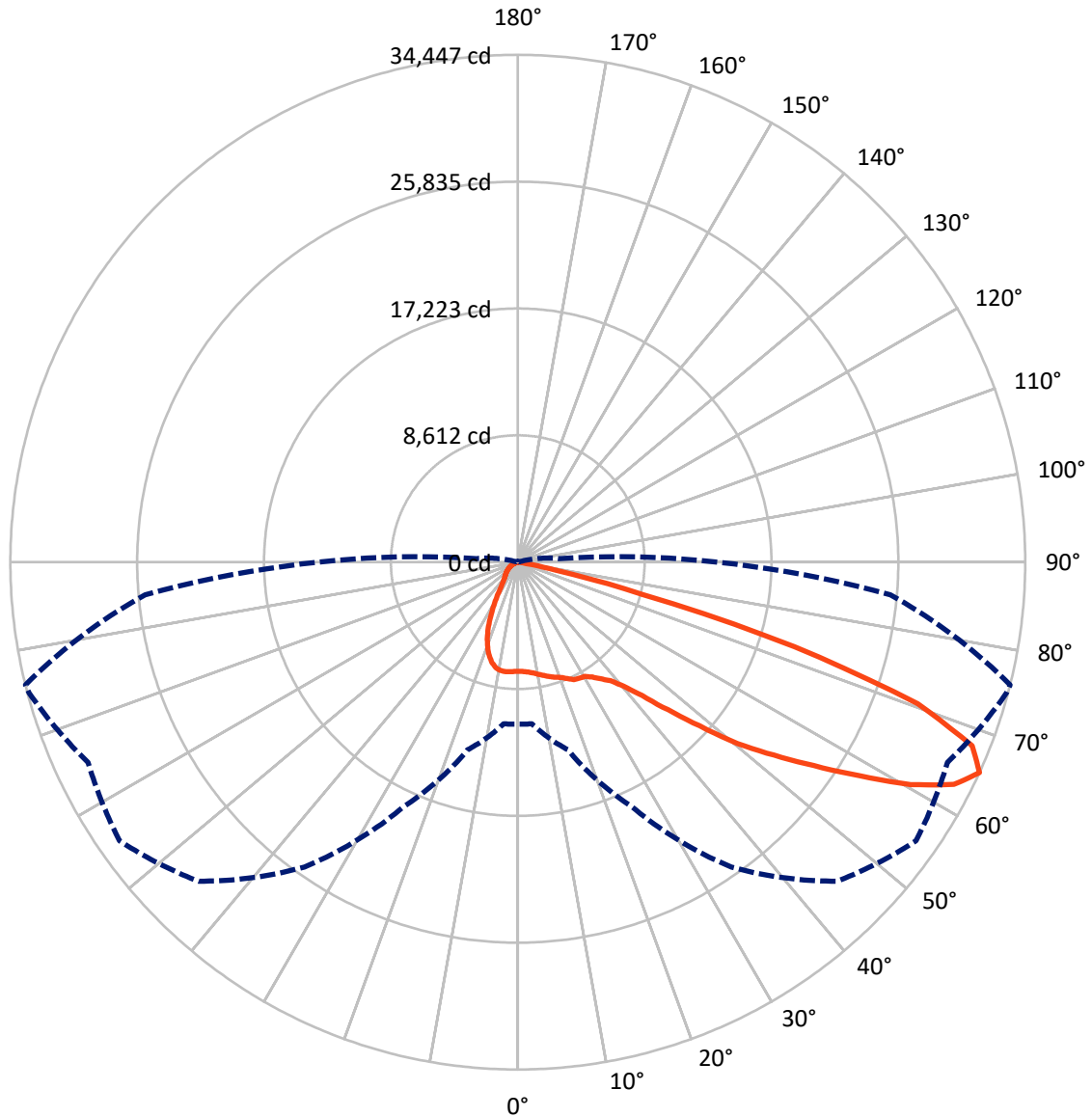
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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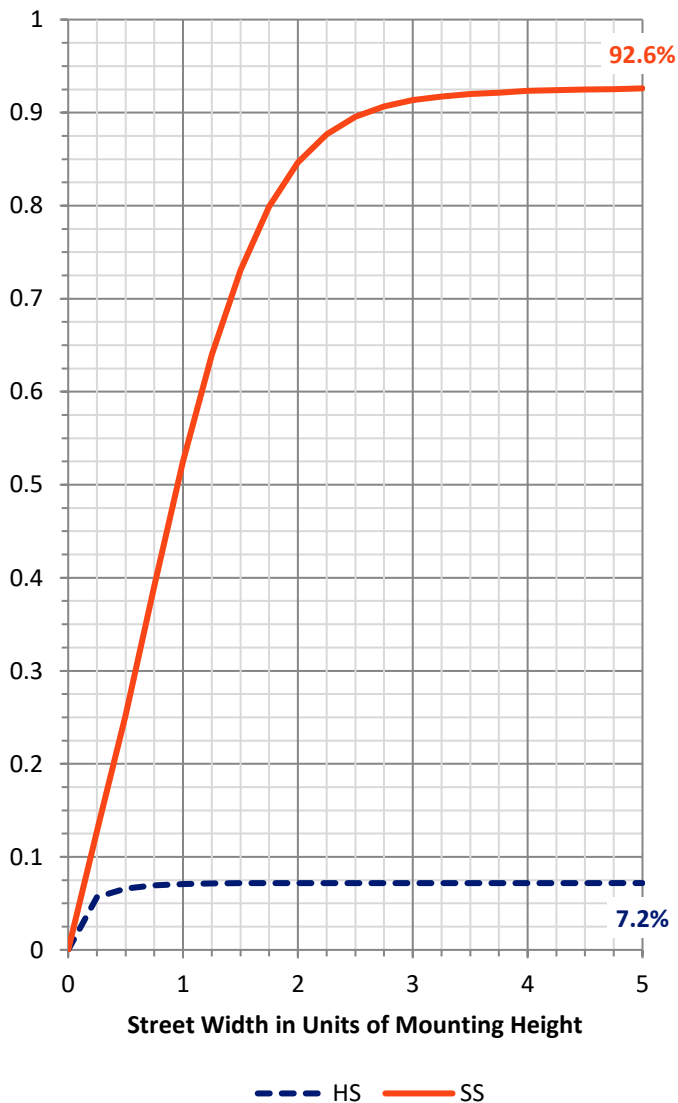
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2923.4	0.0	2923.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	37555.6	0.0	37555.6
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	40479.0	0.0	40479.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.0	1.5
10°-20°	1358.2	3.4
20°-30°	2188.6	5.4
30°-40°	3805.4	9.4
40°-50°	6288.2	15.5
50°-60°	9714.0	24.0
60°-70°	11862.2	29.3
70°-80°	4502.0	11.1
80°-90°	150.2	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°	40479.0	100.0
0°-180°	40479.0	100.0

**Coefficient of Utilization**



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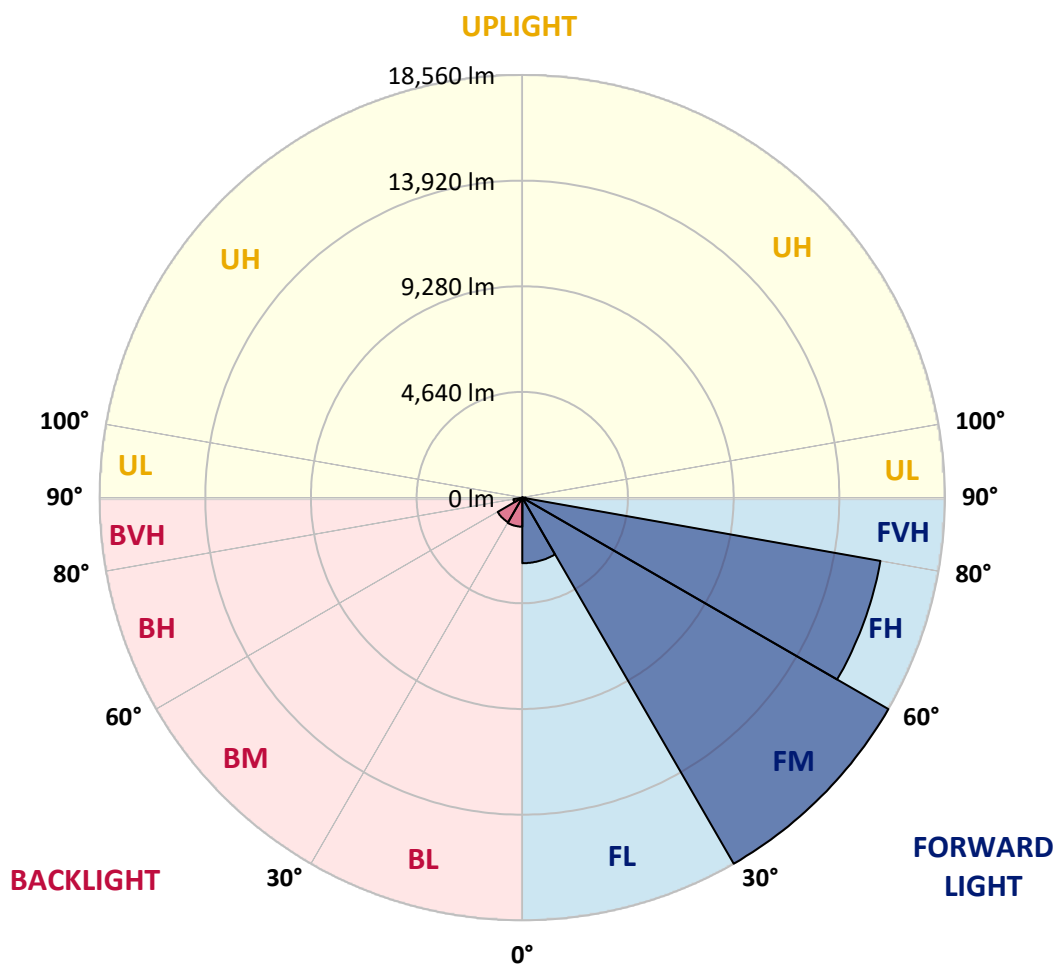
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2879.6	7.1			
FM (30°-60°)	18560.2	45.9			
FH (60°-80°)	15967.6	39.4			G5
FVH (80°-90°)	148.2	0.4			G2/225
BL (0°-30°)	1277.2	3.2	B3/2500		
BM (30°-60°)	1247.5	3.1	B2/2500		
BH (60°-80°)	396.7	1.0	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9
2.5°	7076.2	7079.1	7096.2	7139.1	7204.8	7259.1	7304.9	7379.2	7430.6	7436.3	7453.5
5°	6587.5	6553.2	6587.5	6699.0	6799.0	6950.5	7136.3	7322.0	7487.8	7499.2	7579.2
7.5°	6038.8	6067.4	6121.7	6236.0	6424.6	6656.1	6924.8	7256.3	7570.7	7599.2	7756.4
10°	5481.5	5544.4	5633.0	5807.3	6070.2	6370.3	6736.1	7210.6	7702.1	7742.1	8013.6
12.5°	4967.1	4995.7	5104.3	5338.6	5664.4	6087.4	6593.2	7184.8	7847.9	7896.5	8288.0
15°	4572.7	4609.8	4704.2	4915.6	5278.6	5821.6	6476.1	7176.3	7990.8	8059.4	8562.4
17.5°	4498.4	4521.2	4561.3	4704.2	5021.4	5610.1	6370.3	7173.4	8128.0	8210.8	8816.7
20°	4804.2	4784.2	4744.2	4729.9	4904.2	5447.2	6293.2	7196.3	8259.4	8353.7	9085.4
22.5°	5570.1	5595.8	5361.5	5084.3	5027.1	5421.5	6281.7	7304.9	8468.1	8579.5	9385.4
25°	7196.3	6999.1	6633.3	5970.2	5470.1	5578.7	6410.3	7562.1	8711.0	8833.9	9657.0
27.5°	8993.9	8933.9	8365.2	7273.4	6341.8	5910.2	6639.0	7759.3	8791.0	8916.7	9811.3
30°	10760.1	10831.6	10180.0	8973.9	7607.8	6524.7	6853.3	7833.6	8862.4	8993.9	10008.5
32.5°	12397.7	12483.4	11911.9	10717.2	9099.7	7587.8	7222.0	8122.2	9162.5	9296.9	10337.1
35°	13686.6	13698.1	13266.5	12314.8	10728.7	8879.6	8019.4	8628.1	9568.4	9725.5	10685.8
37.5°	14869.8	14852.7	14346.8	13526.6	12086.2	10162.8	9022.5	9211.1	10031.3	10194.2	11188.8
40°	15747.2	15758.6	15595.7	14824.1	13352.3	11348.8	9817.0	9757.0	10808.7	11063.1	11920.4
42.5°	16333.1	16438.8	16518.8	16127.3	14944.1	12809.2	11037.3	10925.9	12157.6	12369.1	12955.0
45°	16807.5	16996.1	17396.2	17376.2	16473.1	14601.2	12712.1	12483.4	14069.6	14295.4	14272.5
47.5°	17153.3	17344.8	18007.8	18407.9	17910.7	16338.8	14818.4	14621.2	16353.1	16598.9	15727.2
50°	17330.5	17559.1	18405.1	19179.6	19033.8	18013.5	17219.0	17230.5	19111.0	19348.2	17413.4
52.5°	16916.1	17213.3	18616.6	20011.2	20294.2	19616.8	19468.2	19845.5	21566.0	21768.9	18936.7
55°	15592.9	15967.3	18327.9	20720.0	21754.6	21508.8	22023.2	22597.7	24249.6	24381.0	20499.9
57.5°	14755.5	15152.8	17476.3	21323.0	23509.3	23886.6	24701.1	25121.2	27018.9	27353.3	22294.7
60°	14049.6	14361.1	16776.1	21451.6	25292.7	26796.0	27587.6	28022.0	30437.0	30654.2	24269.6
62.5°	12875.0	13232.2	15592.9	20554.2	26190.1	29125.2	30765.6	30571.3	33080.6	33232.0	25481.3
65°	10985.9	11017.3	13192.2	18299.3	25264.1	30637.0	32997.7	32183.2	34343.8	34446.7	25387.0
67.5°	8199.4	8502.3	10148.5	14384.0	21340.2	29345.2	33720.7	32226.0	33546.4	33260.6	23372.2
70°	5281.5	5513.0	6879.0	9974.2	15387.1	24489.6	31322.9	30016.9	29442.4	28808.0	19131.0
72.5°	2437.8	2735.0	4086.8	5698.7	9125.4	17444.8	25427.0	24386.7	21191.6	19625.4	12160.5
75°	1063.2	1137.5	2017.7	3006.5	4278.3	9225.4	16764.6	15138.5	9571.2	8742.4	4867.1
77.5°	648.8	697.3	1057.4	1611.9	1680.5	3515.3	9031.1	6604.7	2958.0	2609.3	1320.4
80°	440.1	494.4	768.8	843.1	574.4	980.3	3389.5	1763.3	597.3	571.6	282.9
82.5°	214.3	271.5	568.7	471.6	248.6	314.4	986.0	377.2	174.3	162.9	100.0
85°	31.4	54.3	320.1	308.7	111.5	74.3	174.3	94.3	60.0	57.2	45.7
87.5°	0.0	0.0	108.6	48.6	11.4	11.4	20.0	20.0	22.9	20.0	22.9
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°	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9	7404.9
2.5°	7462.1	7476.3	7422.0	7344.9	7262.0	7179.1	7061.9	6956.2	6893.3	6930.5	6839.0
5°	7596.4	7585.0	7442.1	7207.7	6896.2	6521.8	6150.3	5833.0	5730.2	5575.8	5558.7
7.5°	7782.1	7750.7	7447.8	6910.5	6207.4	5504.4	4818.5	4364.1	4104.0	3883.9	3889.6
10°	8042.2	7950.8	7382.0	6387.5	5230.0	4169.7	3295.2	2695.0	2435.0	2352.1	2286.3
12.5°	8310.9	8133.7	7199.1	5681.6	4072.6	2849.4	2003.4	1637.6	1477.6	1426.1	1420.4
15°	8550.9	8270.9	6879.0	4832.8	2960.8	1820.5	1366.1	1246.1	1226.1	1228.9	1226.1
17.5°	8788.1	8379.5	6436.1	3932.5	2012.0	1306.1	1174.6	1146.0	1154.6	1166.0	1163.2
20°	8985.3	8402.3	5870.2	3000.8	1423.2	1146.0	1103.2	1097.4	1106.0	1114.6	1114.6
22.5°	9199.7	8419.5	5198.6	2077.7	1163.2	1066.0	1043.1	1043.1	1054.6	1066.0	1068.9
25°	9359.7	8325.2	4395.5	1491.8	1026.0	988.8	977.4	980.3	991.7	997.4	994.6
27.5°	9385.4	8059.4	3543.8	1143.2	931.7	894.5	883.1	894.5	880.2	888.8	883.1
30°	9408.3	7722.1	2680.7	963.1	845.9	788.8	771.6	754.5	743.1	728.8	725.9
32.5°	9479.8	7324.9	1957.7	866.0	765.9	703.1	663.0	614.5	577.3	565.9	563.0
35°	9511.2	6847.6	1437.5	788.8	694.5	625.9	554.4	485.8	431.5	411.5	425.8
37.5°	9631.2	6384.6	1114.6	731.6	631.6	545.9	454.4	368.7	317.2	305.8	311.5
40°	9877.0	5881.6	934.5	683.0	577.3	471.6	360.1	277.2	242.9	231.5	228.6
42.5°	10271.4	5381.5	831.7	637.3	523.0	397.3	282.9	217.2	188.6	180.0	180.0
45°	10751.5	4901.4	760.2	588.7	465.8	320.1	222.9	174.3	157.2	151.5	151.5
47.5°	11383.1	4481.2	700.2	540.1	403.0	254.4	180.0	151.5	140.0	142.9	145.8
50°	12023.3	4169.7	634.5	485.8	331.5	208.6	154.3	134.3	131.5	134.3	134.3
52.5°	12506.3	3986.8	545.9	411.5	260.1	174.3	137.2	125.7	122.9	117.2	117.2
55°	13157.9	3946.8	434.4	334.4	205.8	145.8	122.9	114.3	105.7	100.0	97.2
57.5°	13995.3	3992.5	334.4	260.1	160.0	120.0	108.6	94.3	82.9	71.4	71.4
60°	14515.4	3889.6	260.1	200.1	117.2	97.2	82.9	68.6	54.3	45.7	42.9
62.5°	14349.7	3455.2	205.8	148.6	82.9	71.4	54.3	45.7	31.4	22.9	20.0
65°	13495.2	2789.3	165.8	102.9	60.0	42.9	28.6	28.6	14.3	2.9	0.0
67.5°	11811.8	2066.3	131.5	68.6	34.3	20.0	14.3	8.6	0.0	0.0	0.0
70°	9614.1	1491.8	102.9	42.9	20.0	14.3	5.7	2.9	0.0	0.0	0.0
72.5°	6104.5	854.5	80.0	25.7	14.3	5.7	0.0	0.0	0.0	0.0	0.0
75°	2360.7	334.4	54.3	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	668.8	157.2	31.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	174.3	68.6	17.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.9	28.6	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.6	11.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.9	2.9	0.0	0.0	0.0	0.0	0.0	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)