

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: P650975

Luminaire Tested: **GALN-SA6C-840-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26210.6 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

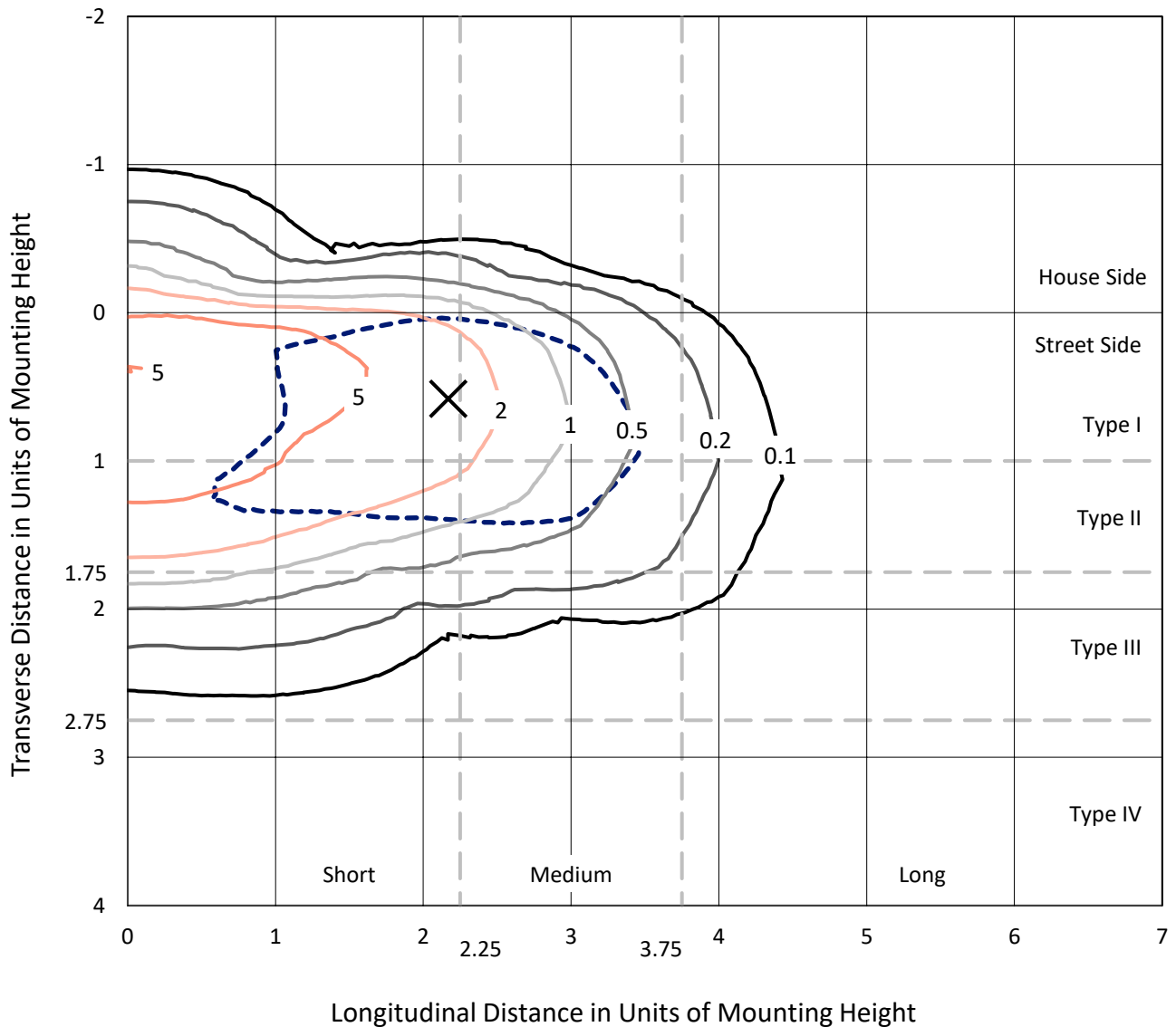
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

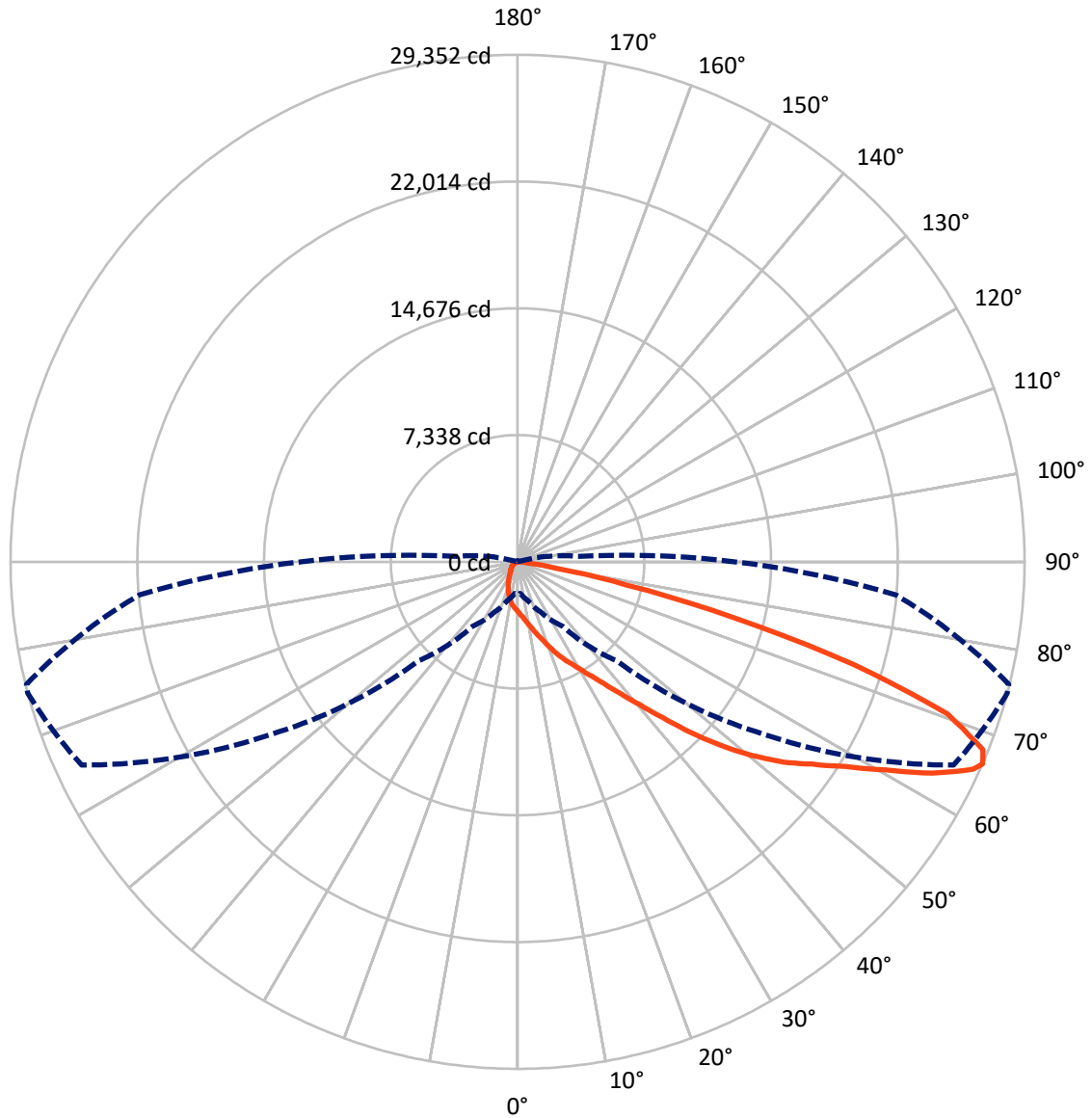
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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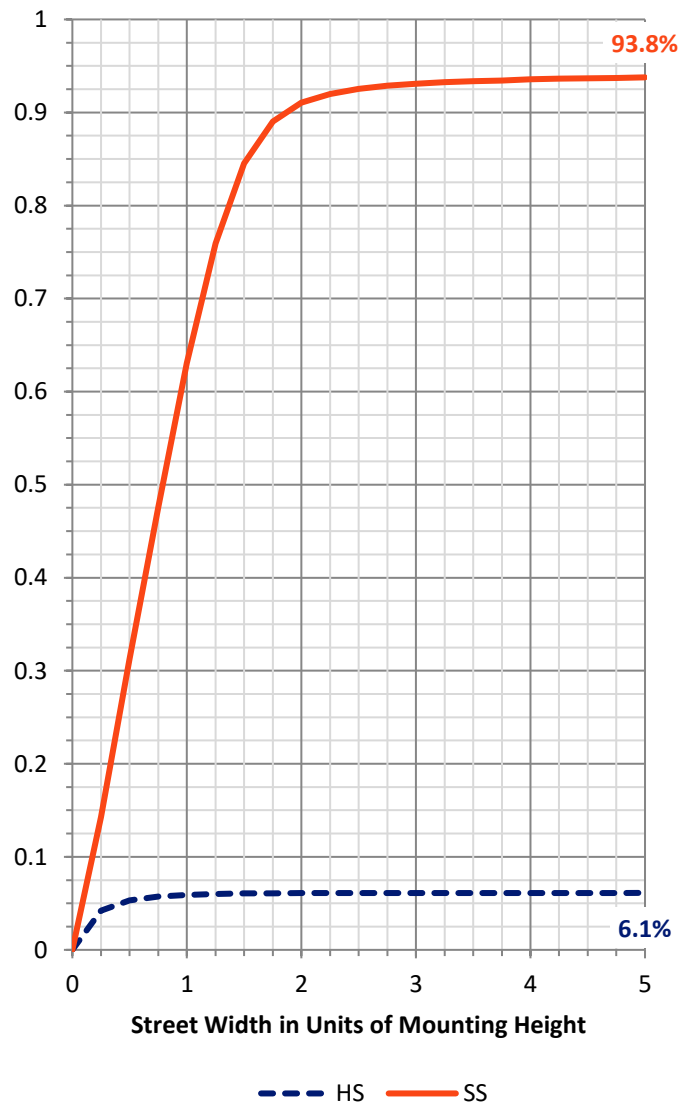
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1618.1	0.0	1618.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	24592.5	0.0	24592.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	26210.6	0.0	26210.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.5	1.1
10°-20°	813.7	3.1
20°-30°	1405.0	5.4
30°-40°	2534.3	9.7
40°-50°	4578.4	17.5
50°-60°	7137.7	27.2
60°-70°	6780.5	25.9
70°-80°	2541.2	9.7
80°-90°	143.4	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°	26210.6	100.0
0°-180°	26210.6	100.0

**Coefficient of Utilization**

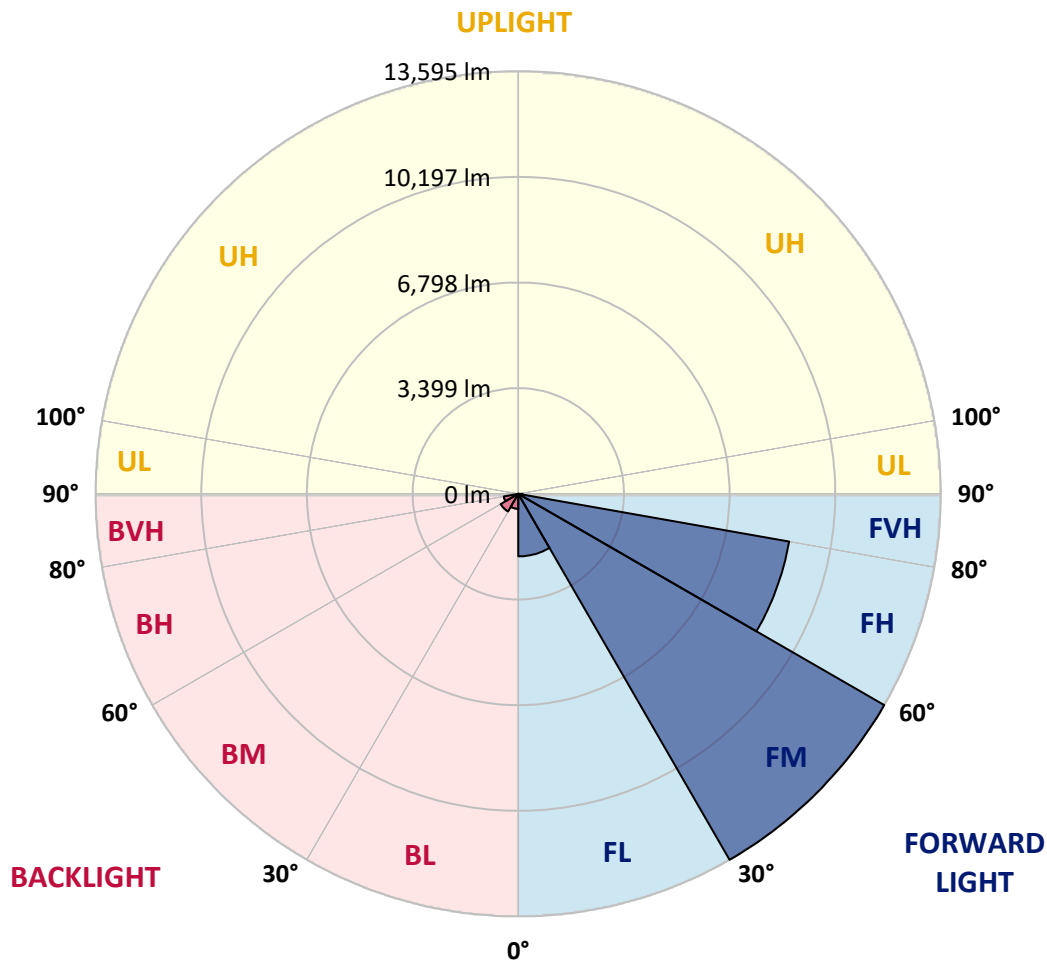


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2011.9	7.7			
FM (30°-60°)	13595.4	51.9			
FH (60°-80°)	8849.2	33.8			G4/12000
FVH (80°-90°)	136.0	0.5			G2/225
BL (0°-30°)	483.2	1.8	B1/500		
BM (30°-60°)	655.0	2.5	B1/1000		
BH (60°-80°)	472.5	1.8	B1/500		G1/500
BVH (80°-90°)	7.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4
2.5°	3424.6	3381.9	3395.5	3376.1	3331.5	3265.6	3207.5	3124.1	3040.8	3027.3	2934.2
5°	3876.1	3864.5	3849.0	3792.7	3761.8	3661.0	3540.9	3397.4	3224.9	3193.9	3025.3
7.5°	4184.2	4178.4	4186.2	4157.1	4130.0	4038.9	3911.0	3715.3	3447.8	3430.4	3149.4
10°	4285.1	4300.5	4329.6	4376.1	4418.8	4389.7	4292.8	4048.6	3736.6	3686.2	3290.8
12.5°	4226.9	4244.4	4314.1	4438.1	4575.8	4655.2	4616.4	4438.1	4042.8	4002.1	3449.8
15°	4077.7	4099.0	4197.9	4389.7	4635.8	4860.6	4957.5	4829.6	4399.4	4333.5	3641.6
17.5°	3856.7	3887.8	4029.2	4283.1	4620.4	5007.9	5281.2	5238.6	4779.2	4717.3	3850.9
20°	3690.1	3713.4	3833.4	4124.2	4554.4	5089.3	5589.4	5709.5	5248.3	5141.7	4097.0
22.5°	3800.6	3808.3	3849.0	4023.4	4436.2	5110.7	5860.7	6199.9	5746.4	5651.4	4352.8
25°	4341.2	4263.7	4223.0	4184.2	4411.0	5091.2	6106.8	6711.5	6242.5	6141.7	4606.7
27.5°	5194.0	5159.1	4953.7	4678.5	4626.2	5116.5	6269.7	7196.0	6709.6	6601.0	4854.8
30°	6122.3	6062.3	5936.3	5533.2	5128.1	5294.8	6387.8	7667.0	7261.9	7118.5	5081.6
32.5°	6975.1	7013.9	6825.8	6411.1	5942.1	5674.6	6541.0	8180.6	7895.6	7717.4	5345.1
35°	7969.3	8046.9	7758.1	7360.8	6812.3	6360.7	6839.4	8760.0	8700.0	8475.1	5752.2
37.5°	8979.0	9025.5	8849.2	8291.0	7796.8	7232.9	7401.5	9475.2	9690.3	9498.4	6238.6
40°	9827.9	9891.8	9762.0	9265.9	8738.7	8242.6	8217.4	10254.2	10868.7	10670.9	6963.5
42.5°	10477.2	10525.6	10529.5	10178.7	9703.9	9479.1	9258.1	11248.5	12345.5	12116.7	7804.6
45°	11297.0	11366.7	11326.0	11087.7	10733.0	10692.3	10577.9	12450.1	14112.9	13824.2	8895.7
47.5°	12564.5	12611.0	12510.1	12229.1	11868.7	11932.6	11864.8	13797.0	15915.3	15667.2	10025.6
50°	13444.3	13521.9	13665.2	13777.7	13516.0	13279.6	13078.1	15054.8	17626.6	17403.7	11180.7
52.5°	13434.6	13562.6	14016.0	14581.9	15153.6	15082.0	14502.5	16444.4	19260.4	18985.2	12266.0
55°	12529.6	12777.6	13444.3	14448.2	16031.6	16820.4	16556.9	18053.0	20671.4	20485.2	13523.8
57.5°	10661.3	10812.4	11738.8	13142.0	15541.3	17638.3	18936.8	20233.4	22363.3	22276.1	15477.3
60°	7170.8	7238.7	8430.5	10165.1	13231.1	16822.4	20681.0	22871.0	24446.7	24404.1	17758.5
62.5°	4108.7	4137.7	5002.1	6465.4	9415.1	14256.4	20828.3	26125.0	26944.8	26968.1	20398.0
65°	2211.3	2226.8	2924.5	3794.8	5728.9	10161.2	18729.4	27908.1	28964.3	29008.9	22033.8
66°	1909.0	1835.3	2327.6	3234.7	4558.3	8087.6	17401.8	27844.1	29351.9	29303.5	21975.7
67.5°	1451.6	1517.5	1858.6	2486.5	3378.0	5750.3	14366.8	26605.7	29057.3	28906.2	21082.2
70°	1038.8	1066.0	1323.7	1773.3	2300.5	3155.2	9180.6	22097.8	26409.9	26206.4	18367.0
72.5°	670.5	699.6	938.1	1283.0	1662.8	1723.0	5139.8	15965.7	20361.3	20332.2	13831.9
75°	478.7	505.9	620.2	918.6	1250.1	1066.0	2474.9	10760.1	12944.3	12857.0	8556.5
77.5°	346.9	360.5	414.8	600.8	893.5	763.6	1147.3	5746.4	6444.1	6748.4	3781.1
80°	199.7	211.3	288.8	366.3	604.7	521.3	548.5	2306.3	2378.0	2263.6	1182.2
82.5°	98.8	112.4	172.5	250.0	377.9	350.8	252.0	693.8	732.6	713.2	298.5
85°	23.3	29.1	96.9	164.8	184.1	157.0	122.1	203.5	252.0	246.2	114.4
87.5°	1.9	3.9	34.9	29.1	31.0	52.3	42.6	52.3	81.4	75.6	40.7
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°	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4	2866.4
2.5°	2891.6	2854.8	2748.1	2643.5	2556.3	2465.2	2381.9	2333.4	2314.0	2292.7	2302.4
5°	2932.3	2843.2	2628.0	2441.9	2259.8	2104.8	1980.7	1901.2	1862.5	1856.7	1847.0
7.5°	2986.6	2833.4	2500.1	2209.4	1971.0	1798.5	1657.0	1542.7	1507.8	1476.8	1451.6
10°	3052.4	2816.0	2341.2	1965.2	1711.3	1494.2	1308.2	1172.5	1102.7	1083.4	1096.9
12.5°	3122.2	2783.0	2174.5	1740.4	1447.7	1170.6	998.1	930.2	910.9	903.1	905.1
15°	3192.0	2742.3	2000.1	1523.3	1153.2	934.2	854.7	837.2	829.5	825.6	821.7
17.5°	3255.9	2676.5	1804.4	1312.0	934.2	798.4	769.4	753.9	738.4	732.6	722.9
20°	3331.5	2600.9	1628.0	1075.6	790.7	722.9	688.0	658.9	635.7	620.2	618.2
22.5°	3403.2	2504.0	1443.8	891.5	721.0	649.3	593.1	562.0	534.9	515.5	521.3
25°	3442.0	2385.7	1279.1	777.2	657.0	575.6	513.6	474.8	445.7	436.1	434.1
27.5°	3442.0	2240.4	1118.3	711.2	598.9	509.7	445.7	408.9	389.6	376.0	377.9
30°	3414.9	2079.5	969.0	660.9	548.5	451.5	391.5	358.5	343.0	333.4	331.4
32.5°	3393.5	1926.4	841.1	612.4	496.1	401.2	348.8	323.6	308.1	298.5	298.5
35°	3426.5	1794.6	742.3	564.0	447.7	362.4	315.9	292.7	277.1	269.4	267.4
37.5°	3513.7	1674.5	666.7	511.7	403.1	329.5	292.7	265.5	250.0	240.4	236.4
40°	3728.8	1606.6	610.5	463.2	360.5	302.3	265.5	240.4	220.9	211.3	209.3
42.5°	4073.8	1608.6	556.2	418.6	327.6	279.0	242.3	213.2	191.8	182.2	180.2
45°	4593.2	1682.3	513.6	376.0	298.5	253.9	217.1	186.0	166.7	157.0	157.0
47.5°	5215.3	1825.6	476.8	339.2	271.3	230.6	191.8	160.9	141.5	133.7	133.7
50°	5889.8	2011.7	439.9	300.4	248.1	205.5	164.8	139.5	124.0	118.2	118.2
52.5°	6577.8	2236.6	403.1	269.4	222.9	178.3	141.5	124.0	110.5	106.6	104.6
55°	7480.9	2523.3	364.3	236.4	195.8	153.1	126.0	108.6	93.0	87.2	85.3
57.5°	8870.5	2955.5	321.7	207.4	160.9	127.9	108.6	91.1	73.7	63.9	62.0
60°	10546.9	3482.7	277.1	182.2	129.9	104.6	87.2	69.8	54.2	42.6	40.7
62.5°	12116.7	3818.0	234.5	153.1	102.7	79.5	62.0	52.3	38.8	27.2	25.2
65°	12810.5	3705.5	193.8	124.0	81.4	56.2	40.7	36.8	23.3	11.6	9.7
66°	12579.9	3538.9	178.3	112.4	73.7	48.4	34.9	31.0	17.4	5.8	5.8
67.5°	11899.6	3145.5	155.1	96.9	63.9	38.8	27.2	23.3	9.7	1.9	0.0
70°	10196.1	2544.7	122.1	71.7	46.5	27.2	15.5	11.6	5.8	0.0	0.0
72.5°	7831.7	1895.4	96.9	54.2	33.0	15.5	7.7	3.9	5.8	0.0	0.0
75°	4798.7	1083.4	75.6	40.7	21.3	9.7	5.8	0.0	5.8	1.9	0.0
77.5°	2129.9	486.4	50.4	27.2	15.5	7.7	3.9	0.0	3.9	1.9	0.0
80°	538.7	158.9	29.1	19.3	11.6	5.8	1.9	0.0	3.9	3.9	1.9
82.5°	147.3	58.1	21.3	15.5	9.7	5.8	1.9	0.0	3.9	3.9	3.9
85°	58.1	27.2	19.3	15.5	11.6	5.8	1.9	0.0	3.9	3.9	3.9
87.5°	27.2	19.3	19.3	17.4	13.5	5.8	1.9	0.0	3.9	1.9	3.9
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)