

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: P651033

Luminaire Tested: **GALN-SA7C-840-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32971.4 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

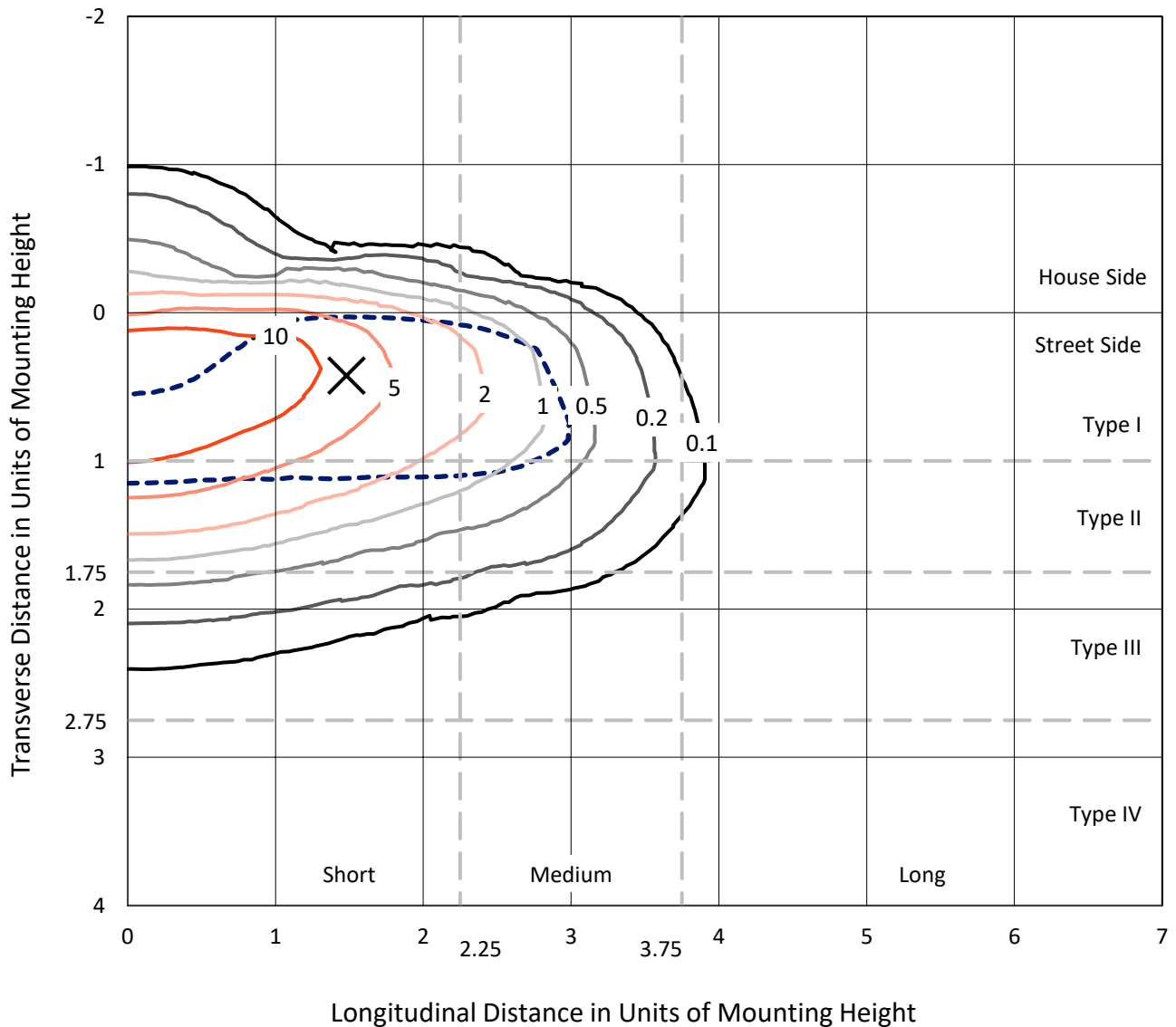
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

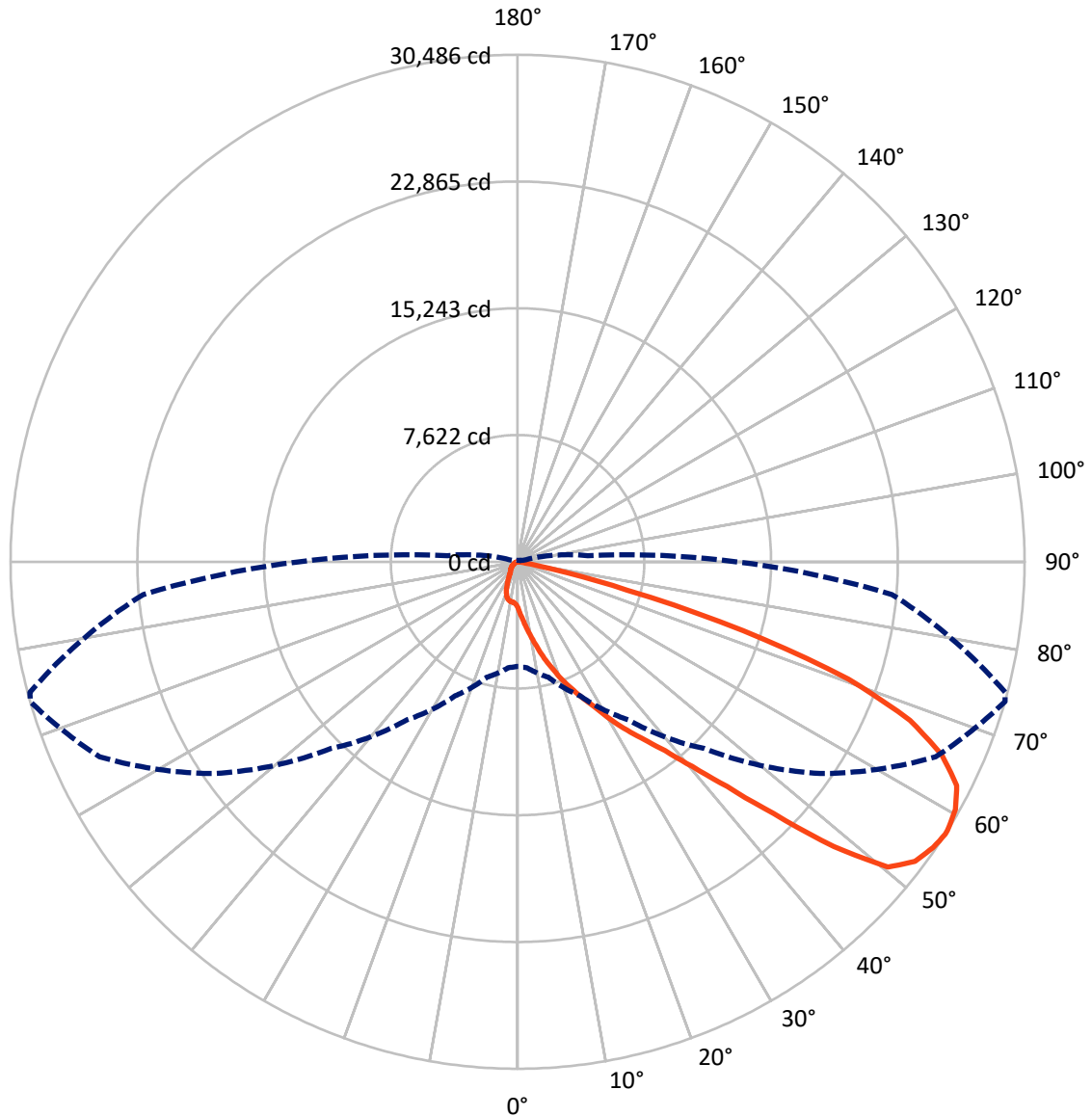
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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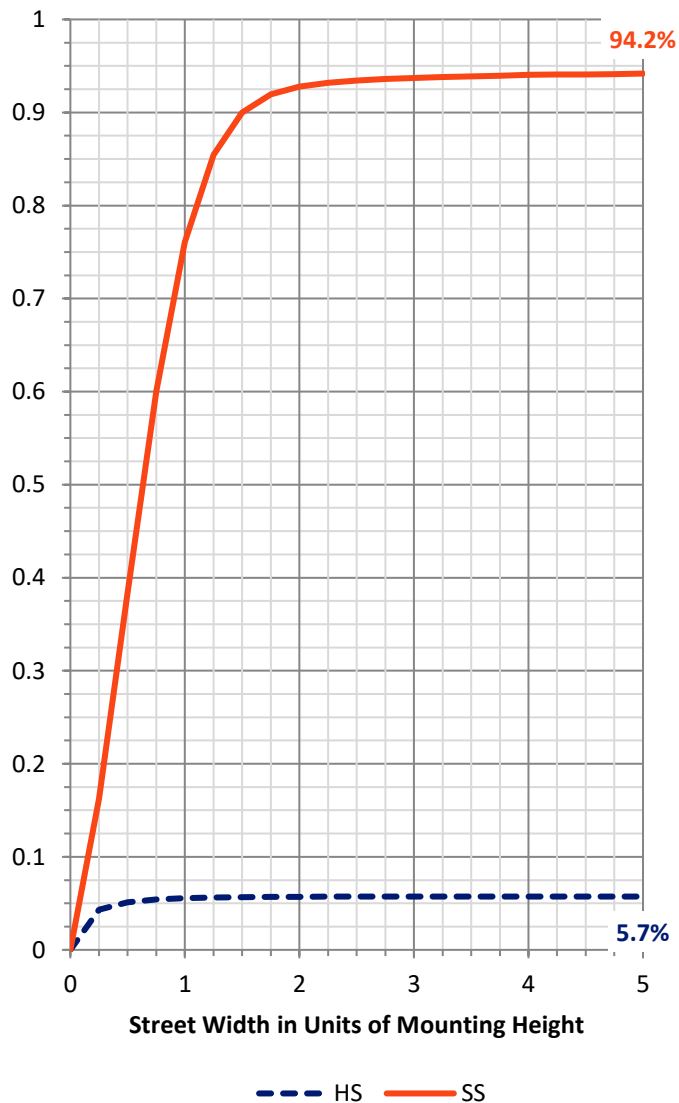
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1901.7	0.0	1901.7
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	31069.7	0.0	31069.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	32971.4	0.0	32971.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.3	1.0
10°-20°	1313.7	4.0
20°-30°	2811.0	8.5
30°-40°	5166.7	15.7
40°-50°	7920.6	24.0
50°-60°	8378.9	25.4
60°-70°	5471.7	16.6
70°-80°	1495.0	4.5
80°-90°	80.5	0.2
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°	32971.4	100.0
0°-180°	32971.4	100.0

**Coefficient of Utilization**



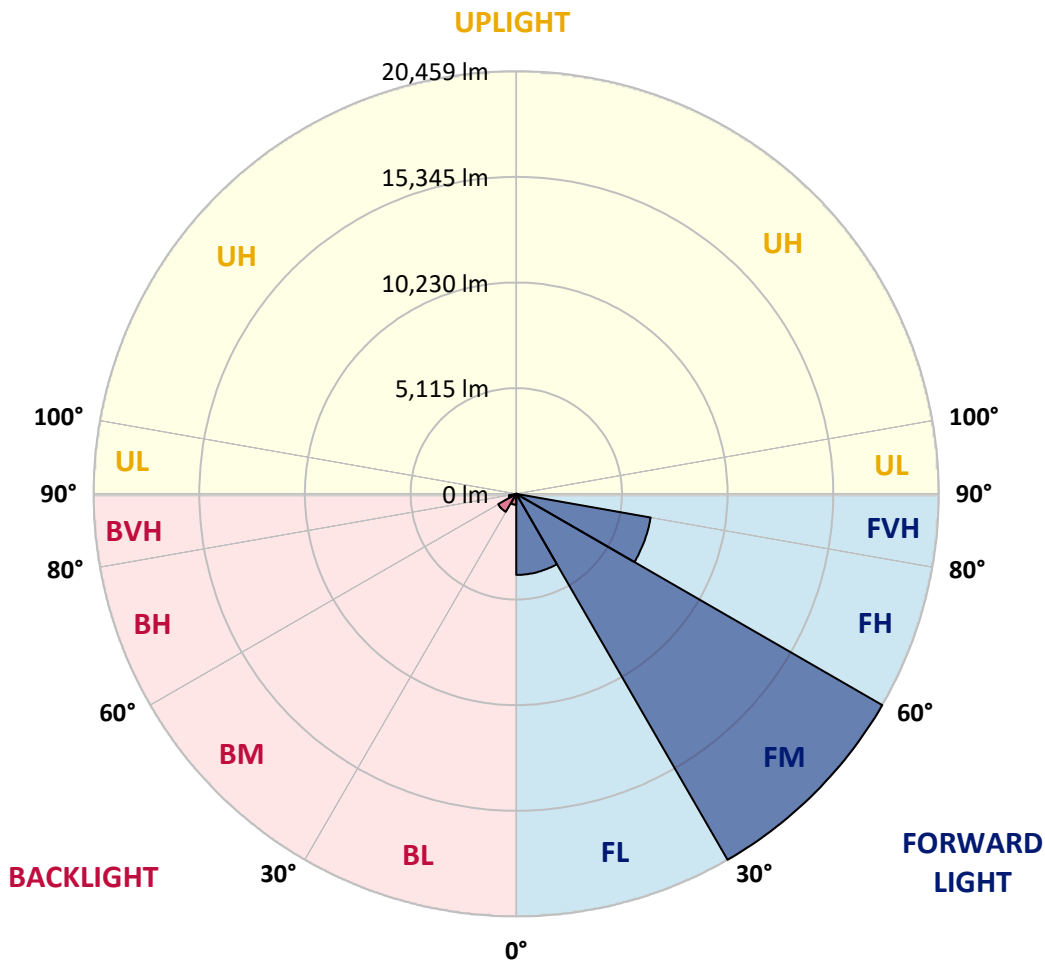
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3926.8	11.9			
FM (30°-60°)	20459.4	62.1			
FH (60°-80°)	6609.7	20.0			G3/7500
FVH (80°-90°)	73.8	0.2			G1/100
BL (0°-30°)	531.2	1.6	B2/1000		
BM (30°-60°)	1006.8	3.1	B2/2500		
BH (60°-80°)	357.0	1.1	B1/500		G1/500
BVH (80°-90°)	6.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3
2.5°	4040.7	4004.3	3931.4	3906.4	3799.4	3633.2	3487.5	3291.8	3136.9	3121.0	2934.3
5°	5411.1	5329.2	5295.0	5131.1	4873.8	4632.6	4218.2	3904.1	3542.1	3514.8	3139.2
7.5°	6731.4	6617.6	6583.4	6428.6	6128.1	5748.0	5210.8	4639.4	4065.7	4013.3	3414.6
10°	7687.5	7703.5	7642.0	7539.6	7295.9	6909.0	6246.5	5465.7	4648.5	4582.4	3724.3
12.5°	8372.7	8370.5	8381.8	8379.6	8249.8	7956.1	7259.5	6360.3	5290.4	5160.7	4079.4
15°	8818.9	8825.7	8859.9	8978.3	8991.9	8809.8	8229.3	7216.3	6034.8	5873.2	4464.1
17.5°	9269.7	9317.4	9372.1	9483.6	9583.8	9511.0	9101.1	8108.7	6708.7	6588.0	4876.1
20°	10014.0	10080.1	10048.2	10116.5	10168.8	10175.7	9859.2	8932.7	7525.9	7323.3	5347.3
22.5°	11204.6	11202.3	11120.4	10997.4	10895.0	10890.4	10603.6	9779.6	8268.0	8072.3	5820.8
25°	12709.4	12716.2	12556.8	12206.2	11951.3	11639.4	11309.3	10521.7	9062.4	8821.2	6319.4
27.5°	14434.8	14391.6	14150.3	13667.7	13162.3	12629.6	12153.9	11384.4	9904.8	9704.5	6890.7
30°	15985.1	15969.2	15686.9	15097.3	14432.6	13897.6	13207.8	12465.7	10995.1	10749.3	7530.4
32.5°	17428.4	17451.2	17059.6	16449.5	15807.5	15190.6	14462.2	13499.2	12065.1	11716.8	8227.0
35°	18555.2	18577.9	18172.7	17665.1	17004.9	16492.8	15798.4	14601.0	13121.4	12827.7	9028.3
37.5°	19156.2	19185.7	18951.3	18568.9	18156.9	17899.6	17253.1	16019.3	14405.2	14227.7	9975.4
40°	19270.0	19304.1	19201.7	19099.3	19076.5	19260.9	19071.9	17690.2	16185.5	15907.7	11386.7
42.5°	18928.6	18974.1	19019.6	19247.2	19711.6	20387.7	21045.6	19957.5	18477.8	18104.5	13112.3
45°	18031.6	18027.1	18206.9	18796.5	19836.8	21280.1	23108.1	22796.2	21601.1	21157.1	15550.3
47.5°	16497.3	16474.5	16863.8	17703.8	19324.7	21444.0	24790.3	26242.7	25587.1	25177.4	18170.5
50°	14159.4	14270.9	14883.3	16055.7	18052.1	20947.7	25309.4	28503.2	28858.3	28423.5	20287.5
52.5°	11420.9	11416.3	12377.0	13968.2	16167.2	19855.0	24947.4	28913.0	29921.4	29589.1	21330.2
55°	8452.4	8511.6	9511.0	11115.8	13720.1	17860.9	23766.0	28491.8	30326.6	30092.2	22017.6
57°	6287.5	6392.2	7193.5	8891.7	11589.3	15887.2	22192.9	27738.4	30486.0	30358.5	22589.0
57.5°	5868.7	5873.2	6654.0	8197.4	10965.5	15129.2	21742.2	27424.2	30481.5	30410.9	22682.4
60°	3612.7	3726.6	4266.1	5540.8	8026.7	11807.9	18721.4	25619.0	30244.7	30347.1	23080.7
62.5°	2162.6	2210.4	2561.0	3339.5	5174.3	8618.6	15320.4	23308.4	29627.8	29939.6	23053.4
65°	1390.9	1402.3	1561.7	2021.5	3234.8	5825.4	11805.5	20255.7	28032.0	28605.6	22151.9
67.5°	1074.5	1092.7	1156.5	1327.2	1875.8	3628.7	8350.0	16998.1	25450.5	26190.3	19966.6
70°	953.9	962.9	985.7	1040.3	1240.6	2048.8	5194.9	13278.5	21104.8	21314.2	15625.4
72.5°	778.5	803.6	874.1	892.4	983.4	1279.3	2891.1	8912.2	14179.9	14232.2	8741.5
75°	603.2	607.8	712.5	764.9	828.6	880.9	1290.8	4493.7	6811.1	6446.9	3369.1
77.5°	450.7	471.2	519.1	585.1	676.1	630.6	578.2	1693.7	2114.8	2076.1	978.8
80°	289.1	300.5	362.0	439.3	525.9	412.0	325.6	496.3	464.4	478.0	234.5
82.5°	145.7	147.9	232.2	357.4	334.6	207.1	204.9	202.6	173.0	170.7	109.2
85°	15.9	34.1	150.2	204.9	150.2	68.3	95.6	93.4	91.1	93.4	63.7
87.5°	2.3	2.3	25.1	29.6	20.5	22.8	27.3	29.6	36.4	34.1	27.3
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°	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3	2761.3
2.5°	2843.3	2752.2	2583.7	2422.2	2301.5	2224.1	2123.9	2087.5	2035.1	2028.3	2003.3
5°	2966.2	2793.2	2499.5	2267.3	2080.6	1939.5	1816.6	1714.1	1632.2	1614.0	1623.1
7.5°	3141.5	2884.2	2474.5	2158.1	1898.6	1657.3	1461.5	1340.8	1254.4	1222.5	1227.0
10°	3339.5	3004.9	2469.9	2041.9	1645.8	1349.9	1135.9	1029.0	978.8	960.7	940.2
12.5°	3574.0	3143.7	2458.6	1862.1	1368.1	1076.7	924.3	860.5	812.7	799.0	799.0
15°	3838.1	3291.8	2403.9	1639.0	1110.9	890.1	787.7	737.6	721.7	708.0	708.0
17.5°	4113.5	3437.4	2290.1	1363.6	922.0	762.6	698.9	669.3	646.5	630.6	630.6
20°	4427.7	3580.8	2108.0	1120.0	778.5	680.6	630.6	596.4	578.2	564.6	560.0
22.5°	4725.8	3697.0	1875.8	919.7	678.4	612.3	566.8	530.4	512.2	505.4	505.4
25°	5035.5	3767.5	1595.8	760.3	619.2	555.5	505.4	475.8	459.9	455.3	453.0
27.5°	5336.0	3808.5	1349.9	664.7	564.6	503.1	455.3	432.5	416.5	412.0	414.3
30°	5700.2	3815.3	1110.9	596.4	516.7	453.0	409.7	389.3	380.1	375.6	373.3
32.5°	6069.0	3806.2	933.3	555.5	471.2	409.7	373.3	357.4	350.5	343.7	343.7
35°	6483.3	3758.4	794.5	514.4	428.0	373.3	341.4	327.8	318.7	311.8	309.6
37.5°	6997.8	3733.4	714.8	468.9	389.3	339.2	309.6	295.9	289.1	280.0	277.7
40°	7808.2	3844.9	689.8	428.0	350.5	307.3	280.0	264.1	255.0	245.8	243.6
42.5°	8818.9	4040.7	648.7	387.0	316.4	277.7	250.4	232.2	216.2	204.9	200.3
45°	10127.8	4297.9	585.1	343.7	286.9	245.8	220.8	198.1	177.5	168.5	166.2
47.5°	11500.5	4546.0	528.1	309.6	255.0	218.6	191.2	166.2	147.9	141.1	138.8
50°	12342.9	4596.1	491.7	270.9	223.1	189.0	161.6	138.8	127.5	120.7	120.7
52.5°	12727.5	4516.4	441.6	236.7	193.5	166.2	138.8	120.7	113.8	109.2	107.0
55°	12996.1	4393.6	375.6	204.9	166.2	141.1	123.0	109.2	100.2	95.6	93.4
57°	13153.2	4227.4	325.6	179.8	143.4	123.0	109.2	97.9	88.8	79.6	79.6
57.5°	13160.1	4163.6	311.8	177.5	136.6	118.4	107.0	95.6	84.3	75.1	72.8
60°	12957.5	3726.6	250.4	150.2	109.2	100.2	88.8	75.1	59.2	50.0	47.8
62.5°	12306.4	3171.1	207.1	127.5	88.8	77.4	63.7	56.9	41.0	29.6	29.6
65°	11320.7	2572.4	177.5	102.4	72.8	56.9	43.2	41.0	25.1	13.6	11.4
67.5°	9895.6	2003.3	150.2	84.3	61.5	41.0	29.6	27.3	13.6	4.5	0.0
70°	7539.6	1365.9	125.2	68.3	45.5	29.6	20.5	15.9	9.1	2.3	0.0
72.5°	4345.7	751.2	104.7	52.4	34.1	22.8	15.9	9.1	9.1	0.0	0.0
75°	1552.5	323.3	79.6	38.7	27.3	18.2	11.4	4.5	6.8	2.3	0.0
77.5°	494.0	173.0	52.4	29.6	22.8	13.6	9.1	4.5	4.5	2.3	0.0
80°	145.7	91.1	31.9	25.1	15.9	11.4	6.8	2.3	4.5	2.3	0.0
82.5°	79.6	45.5	25.1	18.2	15.9	9.1	6.8	2.3	2.3	2.3	0.0
85°	41.0	27.3	20.5	18.2	15.9	9.1	6.8	2.3	0.0	2.3	2.3
87.5°	22.8	20.5	20.5	18.2	15.9	11.4	6.8	2.3	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)