

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: P454942

Luminaire Tested: **GALN-SA6A-750-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19527 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

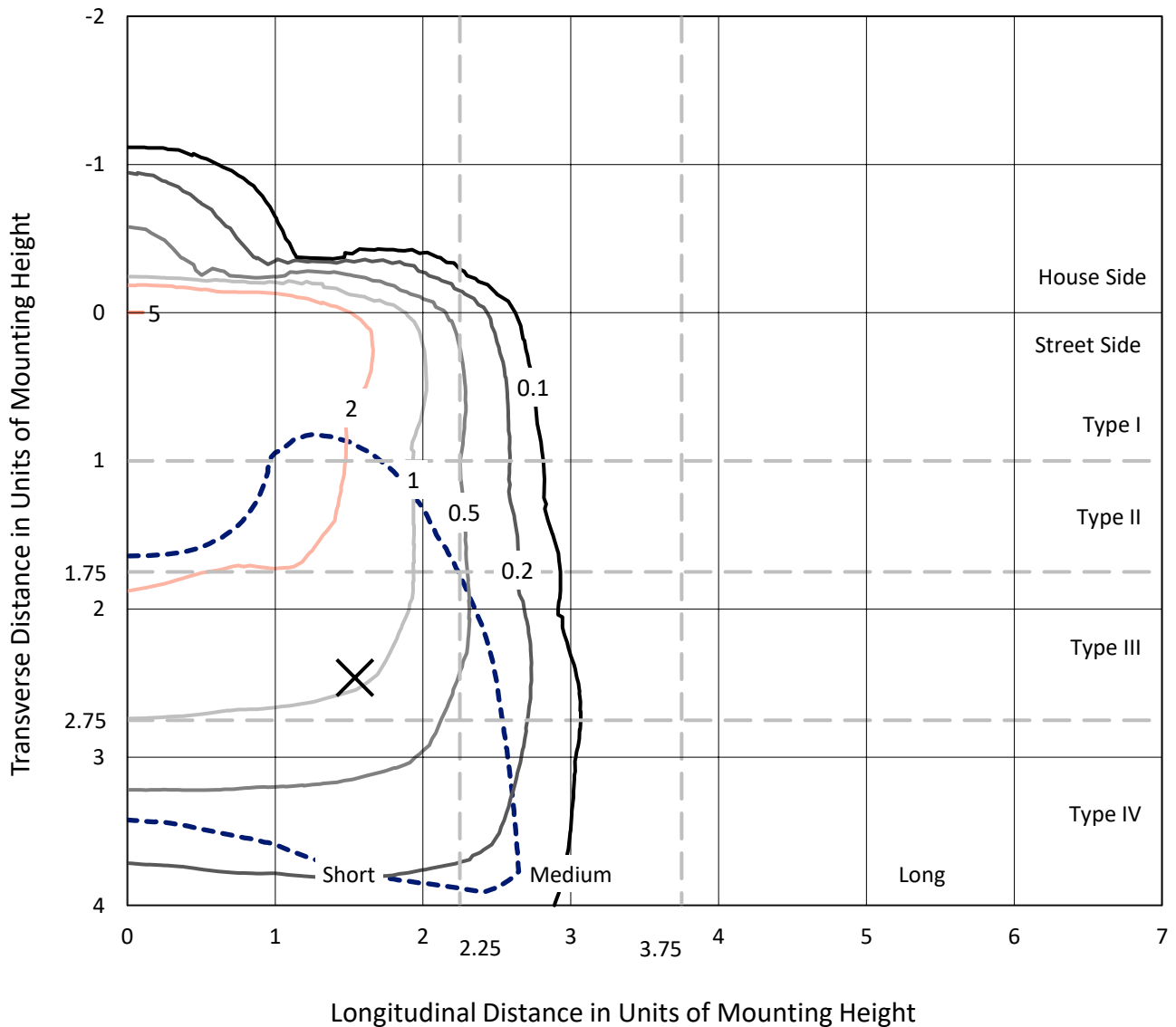
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

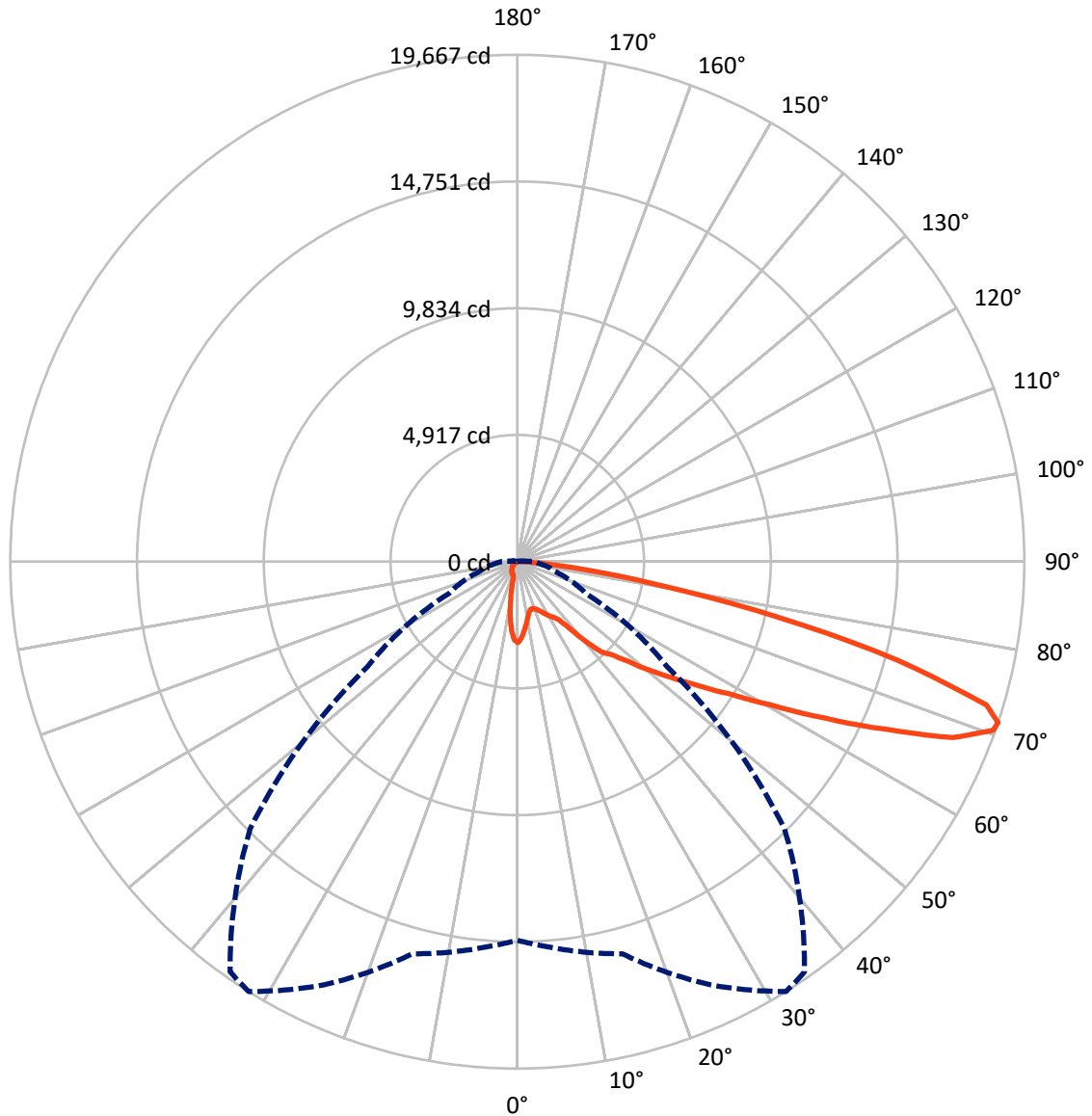
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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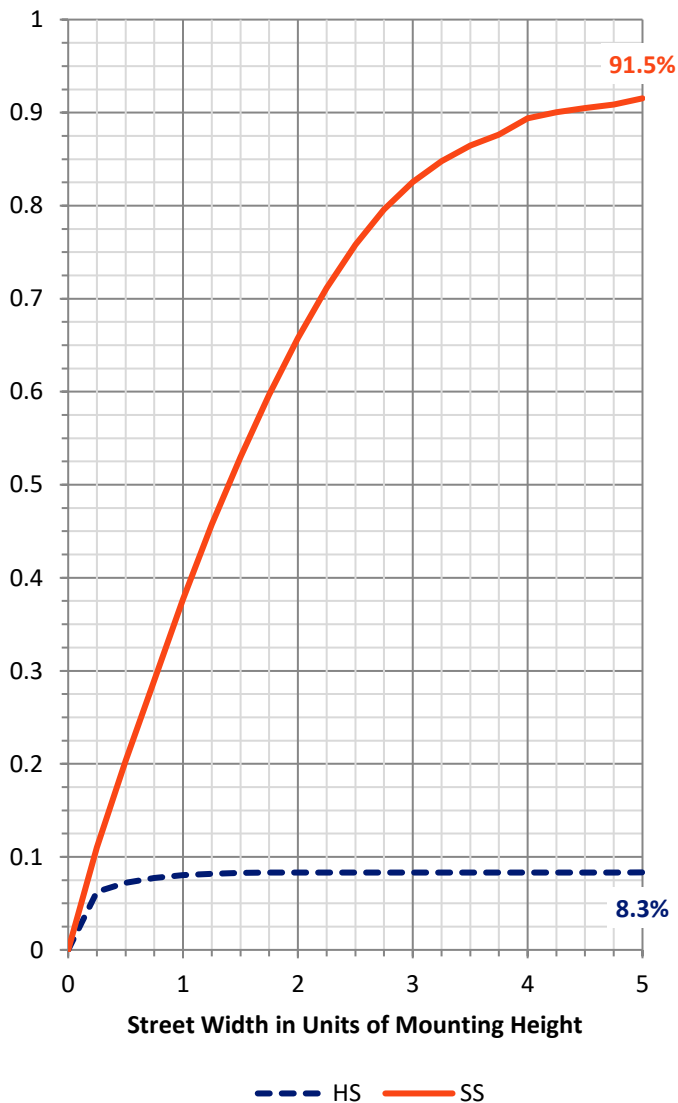
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.6	0.0	1635.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17891.4	0.0	17891.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	19527.0	0.0	19527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.3	1.3
10°-20°	554.2	2.8
20°-30°	862.1	4.4
30°-40°	1436.3	7.4
40°-50°	2671.8	13.7
50°-60°	4289.6	22.0
60°-70°	5769.8	29.5
70°-80°	3423.3	17.5
80°-90°	264.6	1.4
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°	19527.0	100.0
0°-180°	19527.0	100.0



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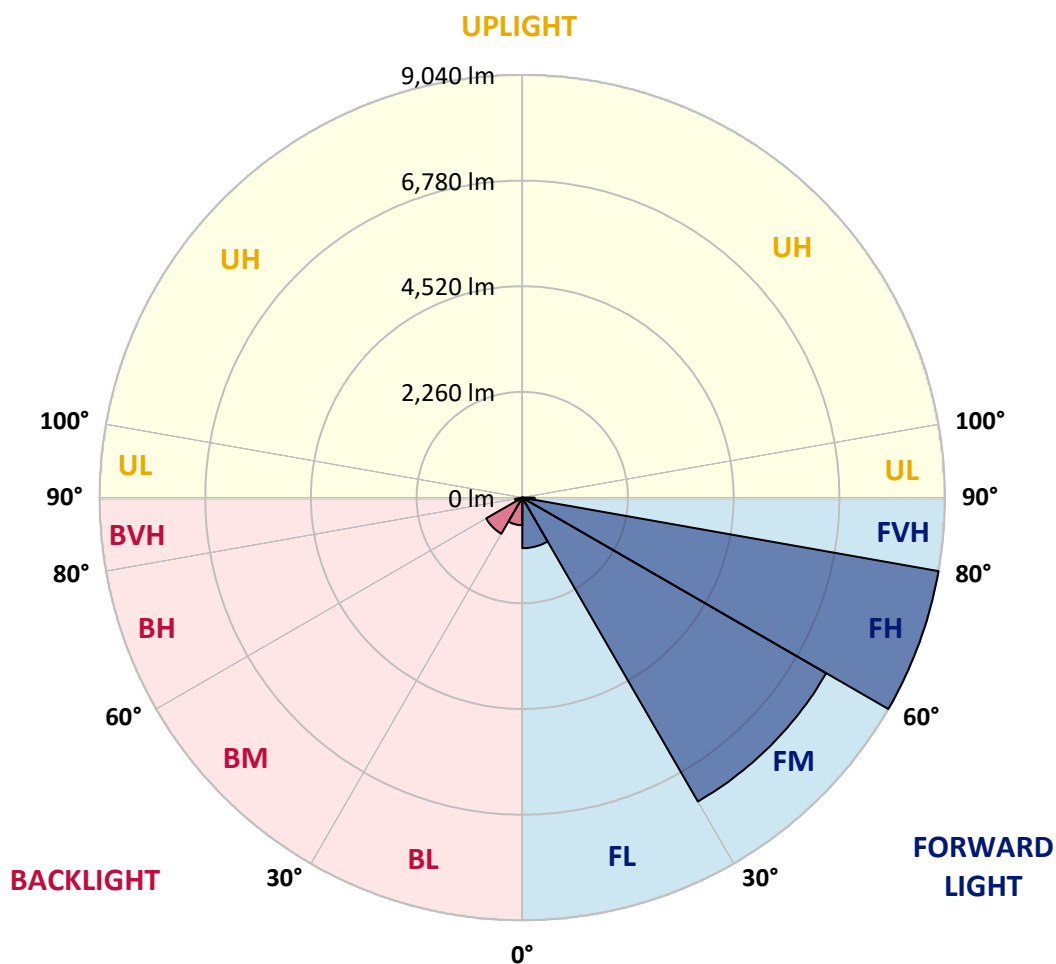
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1082.3	5.5			
FM	(30°-60°)	7505.5	38.4			
FH	(60°-80°)	9040.0	46.3			G4/12000
FVH	(80°-90°)	263.6	1.3			G3/500
BL	(0°-30°)	589.3	3.0	B2/1000		
BM	(30°-60°)	892.3	4.6	B1/1000		
BH	(60°-80°)	153.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2
2.5°	2912.4	2942.4	2937.9	2948.4	2973.9	2984.4	3012.8	3044.3	3087.8	3117.8	3137.2
5°	2608.1	2630.6	2633.6	2686.1	2711.6	2740.0	2824.0	2915.4	3017.3	3098.3	3152.2
7.5°	2282.9	2294.9	2318.8	2387.8	2452.2	2480.7	2608.1	2767.0	2927.4	3078.8	3176.2
10°	2014.6	2028.0	2071.5	2145.0	2204.9	2242.4	2419.3	2618.6	2843.5	3068.3	3210.7
12.5°	1861.7	1869.2	1885.6	1951.6	2028.0	2068.5	2258.9	2486.7	2776.0	3072.8	3269.2
15°	1851.2	1848.2	1828.7	1855.7	1924.6	1966.6	2152.5	2396.8	2716.1	3087.8	3338.1
17.5°	1906.6	1899.1	1852.7	1852.7	1909.6	1944.1	2107.5	2348.8	2686.1	3122.3	3435.5
20°	1992.1	1980.1	1903.6	1897.6	1953.1	1989.1	2134.5	2351.8	2692.1	3186.7	3565.9
22.5°	2100.0	2086.5	1971.1	1974.1	2034.0	2070.0	2212.4	2405.8	2729.5	3266.2	3705.3
25°	2240.9	2225.9	2089.5	2083.5	2146.5	2177.9	2327.8	2501.7	2782.0	3365.1	3888.2
27.5°	2428.3	2396.8	2233.4	2224.4	2291.9	2332.3	2467.2	2630.6	2874.9	3501.5	4134.0
30°	2582.6	2548.2	2392.3	2368.3	2440.2	2471.7	2611.1	2804.5	3057.8	3739.8	4474.3
32.5°	2785.0	2734.0	2551.2	2488.2	2564.7	2605.1	2819.5	3128.3	3329.1	3991.6	4879.0
35°	3240.7	3209.2	2985.9	2765.5	2761.0	2812.0	3126.8	3455.0	3607.9	4384.4	5430.6
37.5°	3892.7	3870.2	3633.4	3338.1	3252.7	3228.7	3500.0	3814.8	4053.1	4924.0	6072.1
40°	4649.7	4597.2	4379.9	4129.5	4018.6	3948.2	3940.7	4349.9	4634.7	5656.9	6740.7
42.5°	5192.3	5096.3	4832.5	4814.5	4790.6	4717.1	4504.3	5132.3	5385.6	6445.4	7455.6
45°	5761.9	5616.5	5223.8	5156.3	5147.3	5142.8	5355.7	6058.7	6204.0	7299.8	8190.1
47.5°	6204.0	6088.6	5766.4	5736.4	5773.9	5875.8	6481.3	7041.9	7012.0	8061.2	8806.2
50°	6793.1	6706.2	6347.9	6404.9	6598.3	6764.6	7750.9	8113.7	7676.0	8660.8	9254.4
52.5°	7488.6	7328.2	6995.5	7149.9	7446.7	7724.0	9098.5	9052.0	8142.2	9112.0	9588.6
55°	8091.2	7977.3	7863.4	8023.7	8467.4	8813.7	10315.6	9755.0	8480.9	9474.7	9735.5
57.5°	9110.5	9083.5	8966.6	9129.9	9668.1	10027.8	11405.3	10300.6	8698.3	9663.6	9563.1
60°	10618.4	10574.9	10357.6	10565.9	11267.4	11832.5	12409.6	10790.8	8747.7	9590.1	9067.0
62.5°	12432.1	12283.7	12097.8	12405.1	13367.4	13616.2	13355.4	11081.5	8563.4	9005.5	7870.9
65°	14125.9	13973.0	13977.5	14625.0	15672.8	15842.1	14458.6	11038.1	8023.7	7541.1	5805.3
67.5°	15422.4	15397.0	15579.8	16843.4	18213.4	18096.5	15444.9	10387.5	6424.4	4888.0	3084.8
70°	15488.4	15537.9	16062.5	18195.4	19586.4	19400.6	15361.0	8443.4	4005.1	2248.4	1215.6
71°	14691.0	15023.7	15749.2	18153.5	19667.4	19426.1	14653.5	7071.9	2937.9	1567.9	876.9
72.5°	12519.0	12694.4	14262.3	17084.7	19027.3	18511.7	12859.3	4956.9	1881.2	959.3	503.6
75°	6895.1	7326.7	9551.1	13403.4	15218.6	14765.9	8380.5	2354.8	938.3	524.6	208.4
77.5°	3282.6	3198.7	4660.2	7971.3	10318.6	10294.6	4222.5	1046.2	547.1	355.2	104.9
80°	938.3	1055.2	1783.7	3789.3	5728.9	5791.8	1621.8	505.1	379.2	277.3	54.0
82.5°	283.3	289.3	655.0	1675.8	2849.5	2686.1	608.6	257.8	272.8	220.3	31.5
85°	49.5	61.5	193.4	590.6	1086.7	824.4	152.9	122.9	179.9	145.4	18.0
87.5°	3.0	4.5	64.5	67.5	95.9	55.5	27.0	18.0	39.0	39.0	10.5
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°	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2	3140.2
2.5°	3150.7	3159.7	3153.7	3140.2	3117.8	3090.8	3054.8	3024.8	2999.3	2985.9	3002.3
5°	3170.2	3182.2	3152.2	3084.8	2982.9	2871.9	2746.0	2648.6	2572.2	2548.2	2539.2
7.5°	3200.2	3207.7	3126.8	2976.9	2761.0	2498.7	2269.4	2076.0	1926.1	1881.2	1815.2
10°	3239.2	3234.7	3081.8	2803.0	2423.8	2029.5	1674.3	1410.5	1211.1	1139.2	1133.2
12.5°	3299.1	3275.1	3024.8	2566.2	2022.0	1506.4	1067.2	834.9	709.0	667.0	658.0
15°	3374.1	3317.1	2934.9	2288.9	1548.4	972.8	658.0	587.6	571.1	568.1	565.1
17.5°	3462.5	3372.6	2816.5	1948.6	1088.2	631.0	550.1	548.6	550.1	547.1	545.6
20°	3582.4	3431.0	2675.6	1545.4	719.5	532.1	524.6	524.6	526.1	524.6	524.6
22.5°	3709.8	3500.0	2501.7	1179.7	542.6	505.1	503.6	506.6	509.6	508.1	508.1
25°	3867.2	3589.9	2272.4	807.9	485.7	482.7	484.2	490.1	496.1	497.6	496.1
27.5°	4095.1	3700.8	2026.5	556.1	445.2	448.2	463.2	478.2	487.2	488.6	488.6
30°	4351.4	3823.8	1705.8	451.2	412.2	412.2	430.2	458.7	478.2	481.2	482.7
32.5°	4681.1	3966.2	1350.5	406.2	380.7	377.7	394.2	428.7	464.7	475.2	475.2
35°	5088.8	4134.0	1004.3	377.7	358.2	350.7	359.7	388.2	434.7	464.7	467.7
37.5°	5567.0	4292.9	734.5	352.2	337.3	326.8	332.8	355.2	392.7	437.7	449.7
40°	6009.2	4433.8	548.6	331.3	316.3	308.8	313.3	323.8	355.2	397.2	404.7
42.5°	6491.8	4543.2	436.2	308.8	295.3	292.3	292.3	296.8	317.8	341.8	343.3
45°	6973.0	4582.2	365.7	281.8	272.8	275.8	274.3	271.3	280.3	277.3	277.3
47.5°	7316.2	4535.7	302.8	256.3	256.3	260.8	253.3	242.8	238.3	220.3	221.8
50°	7551.6	4366.4	248.8	226.3	238.3	244.3	229.3	212.8	196.4	176.9	172.4
52.5°	7649.0	4065.1	203.9	187.4	211.3	218.8	200.9	181.4	155.9	139.4	134.9
55°	7586.1	3693.3	169.4	152.9	178.4	187.4	169.4	146.9	118.4	100.4	97.4
57.5°	7308.8	3249.7	143.9	121.4	142.4	148.4	136.4	112.4	83.9	66.0	66.0
60°	6829.1	2791.0	116.9	95.9	106.4	115.4	103.4	80.9	57.0	40.5	37.5
62.5°	5856.3	2266.4	94.4	74.9	74.9	82.4	71.9	58.5	36.0	21.0	19.5
65°	4228.5	1554.4	74.9	55.5	54.0	54.0	45.0	39.0	21.0	9.0	6.0
67.5°	2297.9	876.9	60.0	42.0	37.5	36.0	28.5	22.5	9.0	1.5	0.0
70°	903.9	337.3	46.5	28.5	24.0	22.5	15.0	10.5	6.0	0.0	0.0
71°	613.1	232.3	40.5	24.0	19.5	16.5	12.0	9.0	4.5	0.0	0.0
72.5°	350.7	143.9	31.5	18.0	15.0	12.0	9.0	6.0	4.5	0.0	0.0
75°	152.9	73.4	19.5	13.5	10.5	7.5	6.0	4.5	1.5	0.0	0.0
77.5°	77.9	40.5	13.5	10.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0
80°	43.5	21.0	9.0	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	24.0	12.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.0	7.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.0	0.0	0.0	0.0	0.0	1.5	1.5	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)