

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: P648371

Luminaire Tested: **GALN-SA4B-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14425.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

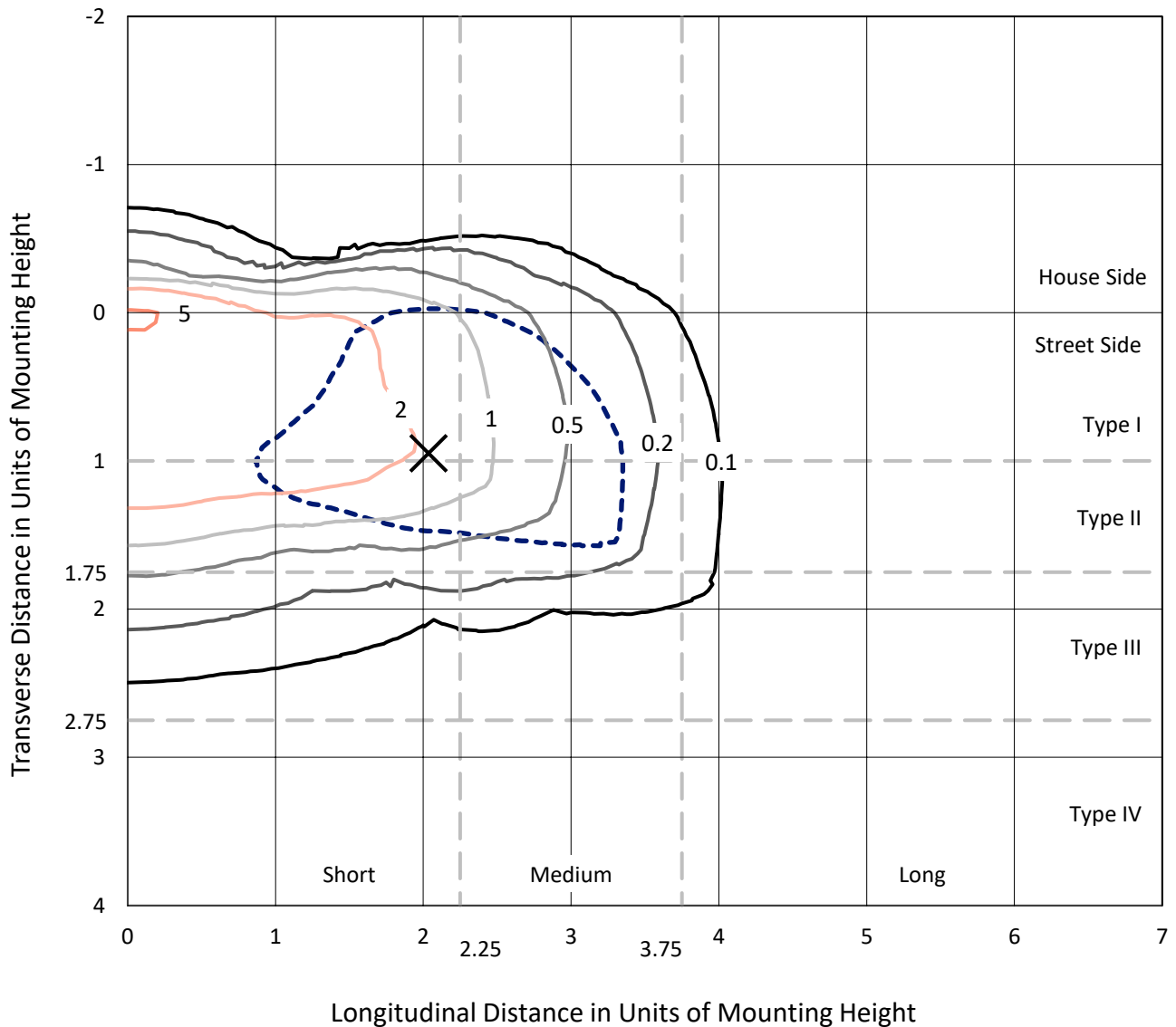
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648371
 CATALOG NUMBER: GALN-SA4B-835-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

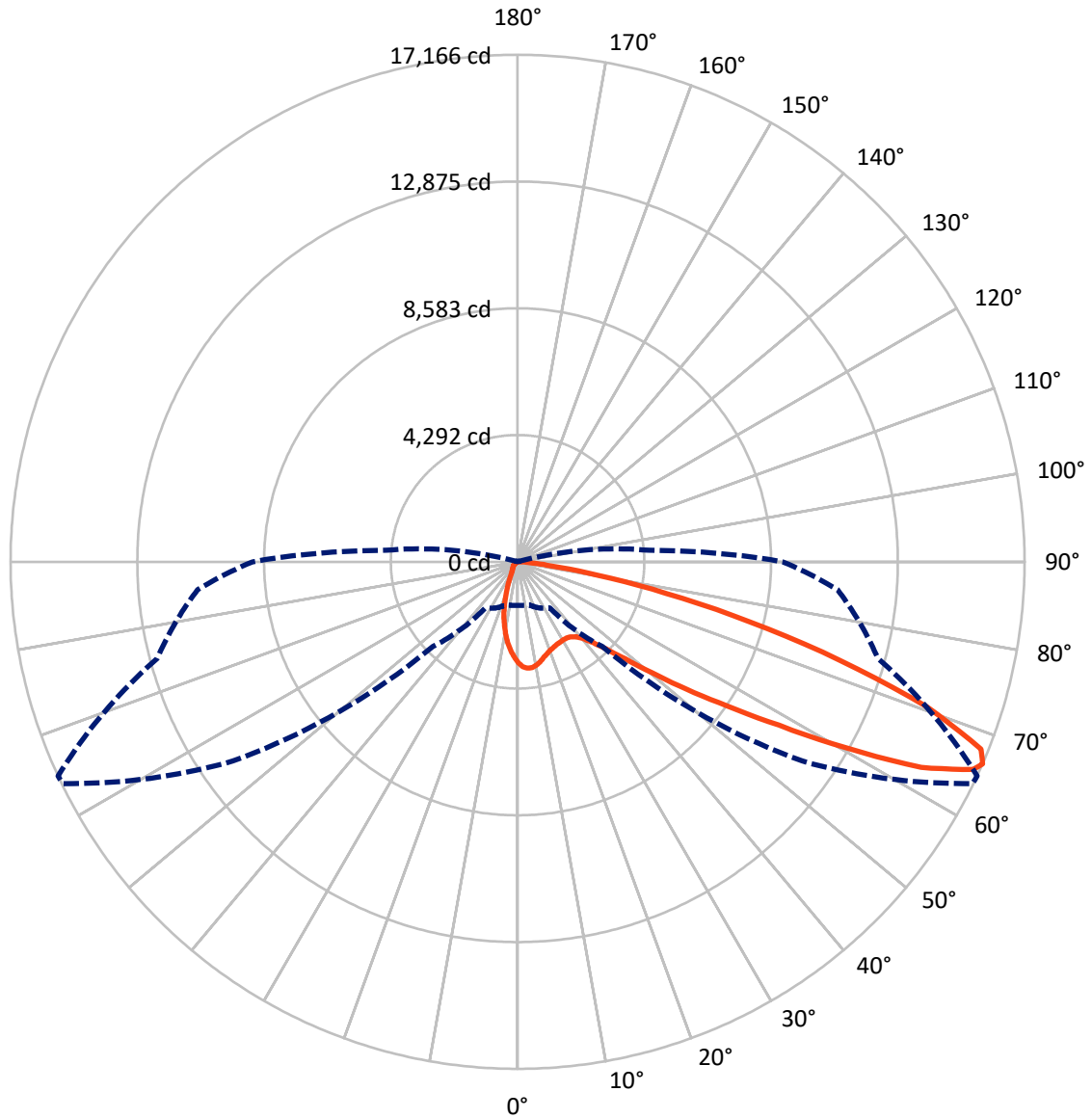
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

REPORT NUMBER: P648371
CATALOG NUMBER: GALN-SA4B-835-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: GALN-SA4B-835-U-SL2-HSS

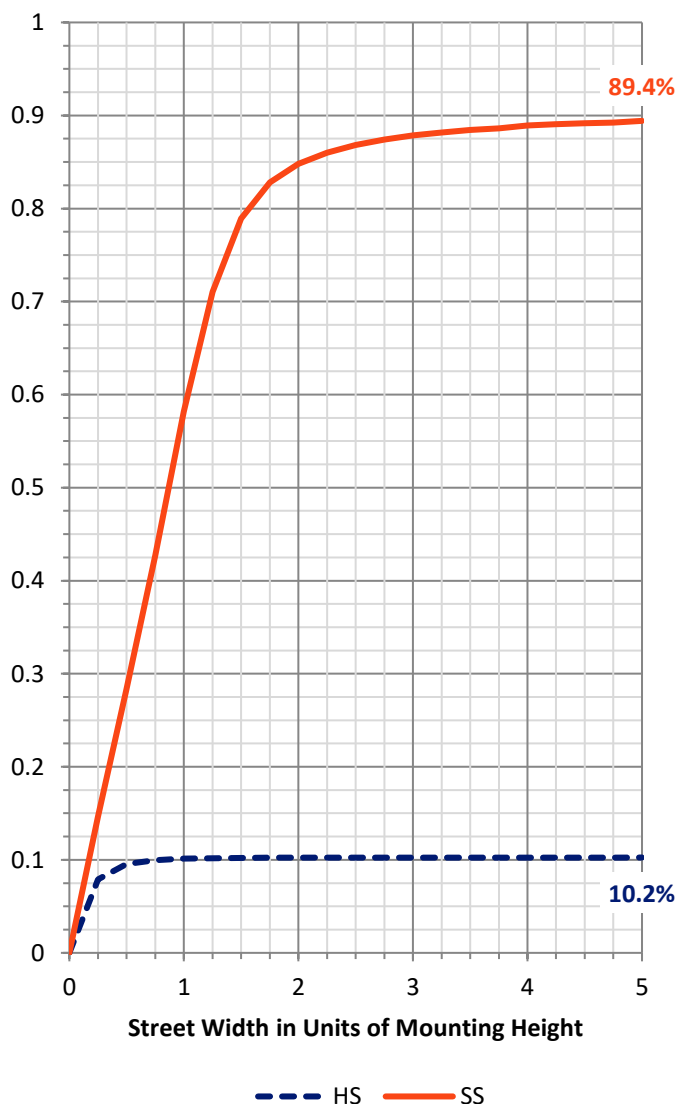
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.8	0.0	1491.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12933.4	0.0	12933.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	14425.2	0.0	14425.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	1.9
10°-20°	609.6	4.2
20°-30°	873.2	6.1
30°-40°	1275.4	8.8
40°-50°	2138.6	14.8
50°-60°	3569.0	24.7
60°-70°	3788.4	26.3
70°-80°	1715.7	11.9
80°-90°	175.6	1.2
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°	14425.2	100.0
0°-180°	14425.2	100.0

Coefficient of Utilization

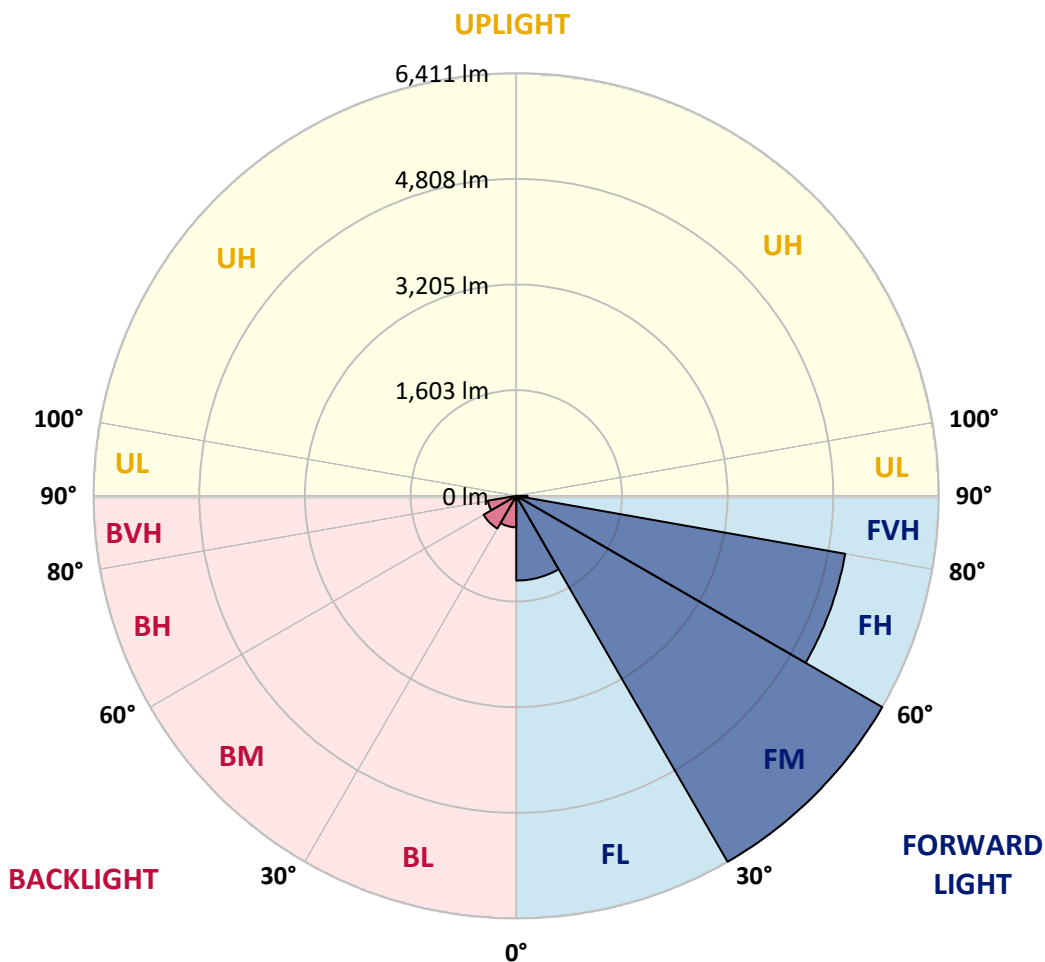


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.3	8.9			
FM (30°-60°)	6410.9	44.4			
FH (60°-80°)	5067.2	35.1			G3/7500
FVH (80°-90°)	170.0	1.2			G2/225
BL (0°-30°)	477.2	3.3	B1/500		
BM (30°-60°)	572.1	4.0	B1/1000		
BH (60°-80°)	436.9	3.0	B1/500		G1/500
BVH (80°-90°)	5.6	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-G3
 Type II Short





REPORT NUMBER: P648371

CATALOG NUMBER: GALN-SA4B-835-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8
2.5°	3604.9	3608.8	3613.6	3620.5	3625.4	3610.7	3590.3	3566.9	3562.0	3512.3	3451.9
5°	3412.0	3417.8	3460.7	3484.1	3536.7	3584.4	3614.6	3618.6	3616.6	3569.9	3473.4
7.5°	3137.2	3153.8	3195.7	3236.6	3335.0	3425.6	3532.8	3607.8	3612.7	3600.0	3480.2
10°	2914.1	2924.8	2946.3	3027.2	3109.0	3247.3	3397.4	3538.6	3550.4	3601.0	3474.3
12.5°	2739.7	2755.3	2781.6	2843.9	2942.4	3073.0	3243.4	3433.4	3457.8	3582.5	3457.8
15°	2618.0	2625.7	2652.0	2713.4	2808.9	2929.7	3102.2	3323.3	3344.7	3558.1	3454.8
17.5°	2560.4	2569.2	2587.7	2636.4	2715.4	2827.4	2996.0	3234.7	3262.0	3542.5	3465.6
20°	2576.1	2583.8	2584.8	2610.1	2663.7	2758.2	2918.0	3151.8	3186.9	3532.8	3483.1
22.5°	2664.7	2665.6	2654.0	2642.3	2660.8	2729.0	2870.2	3099.3	3135.3	3530.9	3503.5
25°	2797.2	2800.1	2780.7	2739.7	2702.7	2737.8	2859.6	3065.1	3097.3	3526.0	3516.2
27.5°	2980.3	2979.4	2973.5	2905.3	2800.1	2776.8	2868.3	3046.7	3073.9	3512.3	3521.1
30°	3236.6	3228.8	3216.2	3139.2	2978.5	2871.3	2905.3	3034.9	3060.3	3492.9	3508.5
32.5°	3489.0	3518.2	3516.2	3443.2	3242.5	3039.8	2982.3	3050.5	3069.0	3480.2	3489.9
35°	3783.2	3782.2	3857.2	3830.0	3595.1	3255.1	3113.8	3102.2	3116.7	3489.0	3481.1
37.5°	4056.0	4081.3	4198.2	4226.5	4012.2	3559.1	3300.0	3213.2	3218.1	3548.4	3502.6
40°	4396.0	4444.7	4619.2	4713.7	4524.6	4010.2	3574.7	3416.9	3417.8	3694.5	3583.5
42.5°	4834.5	4911.4	5074.2	5231.9	5130.6	4544.1	3986.8	3739.4	3737.4	3951.7	3768.6
45°	5367.4	5420.9	5606.1	5856.4	5792.2	5289.5	4587.0	4239.2	4213.8	4373.6	4096.9
47.5°	5827.2	5900.3	6088.4	6373.9	6666.1	6199.4	5304.0	4926.0	4909.5	5044.9	4660.0
50°	6027.9	6092.3	6290.1	6690.5	7398.8	7393.9	6371.9	5928.6	5900.3	5973.4	5531.0
52.5°	5807.7	5868.2	6067.9	6566.8	7743.7	8849.5	7919.1	7186.4	7152.3	7058.7	6571.6
55°	5053.6	5103.4	5398.6	5971.5	7611.2	9819.9	10050.8	8740.4	8607.9	8244.5	7749.5
57.5°	4023.8	3998.5	4181.7	4847.1	6833.7	10145.3	12239.1	10676.4	10439.6	9269.5	8746.3
60°	2788.4	2866.4	2940.4	3378.9	5138.4	9581.2	13600.2	13110.1	12798.4	10277.8	9701.1
62.5°	2049.9	2101.6	2150.3	2352.9	3230.7	7650.1	13840.9	15610.1	15333.5	11348.6	10612.0
65°	1621.2	1625.1	1644.6	1844.4	2128.8	4974.7	12684.4	17020.0	16948.8	12379.4	10981.3
66°	1477.1	1478.0	1508.2	1722.5	1910.6	4051.1	11757.8	17127.1	17166.1	12626.9	10873.1
67.5°	1290.9	1287.0	1330.9	1548.1	1740.1	2920.9	10099.5	16692.6	16923.5	12816.8	10484.4
70°	1000.6	995.7	1049.3	1298.8	1602.7	1948.6	6712.9	14332.8	14705.1	12428.1	9276.3
72.5°	666.4	670.3	761.9	1024.9	1529.7	1715.7	4038.5	10903.4	11429.5	10263.3	7297.5
75°	388.8	395.6	499.8	761.9	1328.0	1635.8	2285.7	7774.9	8111.0	7087.0	4546.1
77.5°	203.7	206.6	279.6	502.8	1018.1	1518.9	1522.9	4967.0	5124.8	3444.1	1799.5
80°	108.1	105.2	150.0	303.0	700.6	1333.8	1235.4	2629.6	2733.8	1023.0	455.0
82.5°	41.0	44.8	79.9	198.7	414.1	957.8	1063.9	1162.4	1126.3	225.0	191.0
85°	7.8	9.7	34.1	117.9	208.5	400.4	784.3	569.9	528.1	84.8	110.1
87.5°	0.9	2.0	9.7	28.3	30.2	135.5	231.8	157.9	136.4	31.2	45.8
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°	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8	3420.8
2.5°	3422.7	3396.4	3308.7	3222.0	3133.3	3053.5	2998.9	2910.3	2887.8	2855.7	2837.1
5°	3415.9	3354.5	3185.9	3001.8	2830.3	2645.2	2504.0	2367.6	2294.5	2257.5	2243.8
7.5°	3396.4	3298.9	3035.9	2747.5	2472.8	2196.1	1955.4	1772.2	1654.3	1573.5	1518.9
10°	3357.4	3223.0	2861.5	2465.0	2049.9	1684.5	1379.6	1147.7	968.4	912.0	913.9
12.5°	3317.5	3138.2	2666.7	2151.2	1636.8	1176.0	852.5	669.3	583.6	555.4	549.5
15°	3280.5	3057.3	2475.7	1847.3	1218.8	761.9	549.5	485.2	461.8	457.0	455.9
17.5°	3261.0	2982.3	2272.0	1499.4	850.6	517.3	440.4	422.8	416.0	411.2	409.2
20°	3244.4	2917.1	2077.2	1174.0	581.7	423.8	394.6	378.0	366.4	361.4	358.5
22.5°	3232.7	2849.8	1875.5	909.0	445.2	376.1	349.8	328.3	311.8	305.9	302.0
25°	3215.2	2775.7	1671.9	664.5	375.1	334.2	304.0	278.7	257.2	246.5	244.5
27.5°	3189.9	2692.0	1448.8	492.0	335.1	297.1	260.1	228.9	207.5	195.8	196.8
30°	3148.9	2604.3	1225.6	390.7	303.0	259.2	219.2	189.0	168.6	159.8	158.8
32.5°	3100.2	2498.1	1021.0	335.1	273.8	225.0	183.1	156.8	141.3	134.4	133.5
35°	3054.4	2390.9	812.6	301.1	243.6	193.9	153.9	131.5	119.9	114.0	114.9
37.5°	3029.1	2295.4	633.3	273.8	219.2	166.6	132.5	113.0	102.3	97.4	96.5
40°	3045.6	2217.5	503.7	249.4	191.9	143.2	114.0	97.4	86.7	79.9	79.9
42.5°	3123.6	2183.4	406.3	226.1	166.6	123.7	99.4	83.8	72.1	65.3	66.2
45°	3361.3	2219.4	340.1	204.6	143.2	107.2	85.7	69.1	58.5	53.6	52.6
47.5°	3755.9	2354.9	294.3	182.2	122.8	91.6	72.1	57.5	46.7	42.8	41.9
50°	4445.7	2634.5	260.1	159.8	104.2	77.9	59.4	45.8	37.0	33.1	33.1
52.5°	5394.6	3244.4	235.8	134.4	87.7	66.2	48.7	37.0	29.2	26.3	25.4
55°	6386.5	3887.4	223.1	113.0	73.1	54.6	39.0	29.2	22.4	19.5	18.5
57.5°	7340.3	4392.1	208.5	91.6	58.5	41.9	30.2	22.4	15.6	13.6	12.7
60°	8255.2	4800.3	177.3	73.1	45.8	30.2	22.4	15.6	10.7	8.8	8.8
62.5°	9073.6	5038.1	139.3	58.5	35.1	21.5	14.6	11.7	7.8	5.9	5.9
65°	9169.1	4729.2	105.2	44.8	25.4	13.6	8.8	8.8	5.9	3.9	3.9
66°	8977.2	4467.2	92.6	41.0	22.4	11.7	7.8	6.8	4.9	2.9	2.9
67.5°	8548.5	4019.9	79.9	35.1	18.5	8.8	5.9	5.9	3.9	2.0	2.0
70°	7386.1	3283.4	63.3	26.3	13.6	6.8	3.9	3.9	2.9	2.0	2.0
72.5°	5629.5	2451.3	51.6	19.5	9.7	4.9	2.9	2.9	2.9	2.0	2.0
75°	3395.4	1320.1	39.9	14.6	8.8	3.9	2.0	2.9	3.9	2.9	2.0
77.5°	1251.0	449.1	31.2	11.7	6.8	3.9	2.0	2.0	3.9	2.9	2.9
80°	306.9	116.9	22.4	9.7	6.8	3.9	2.0	2.0	3.9	3.9	3.9
82.5°	142.3	49.7	15.6	8.8	6.8	3.9	2.0	2.0	2.9	3.9	3.9
85°	81.8	23.4	12.7	9.7	6.8	3.9	2.0	2.0	2.9	3.9	3.9
87.5°	33.1	11.7	11.7	9.7	7.8	4.9	2.0	2.0	2.0	2.9	2.9
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)