

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: P942127

Luminaire Tested: **GALN-SB6A-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25248 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9
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

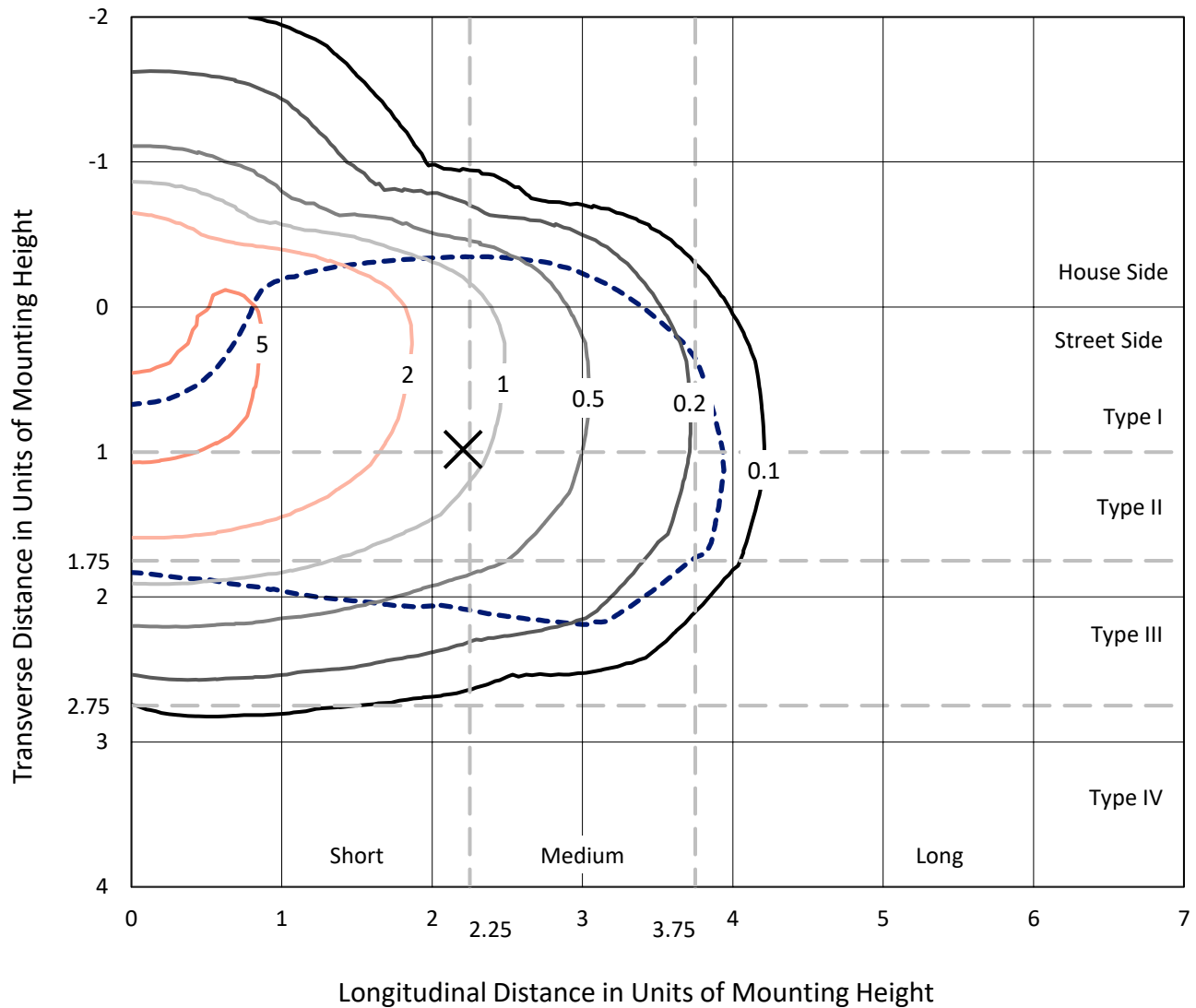


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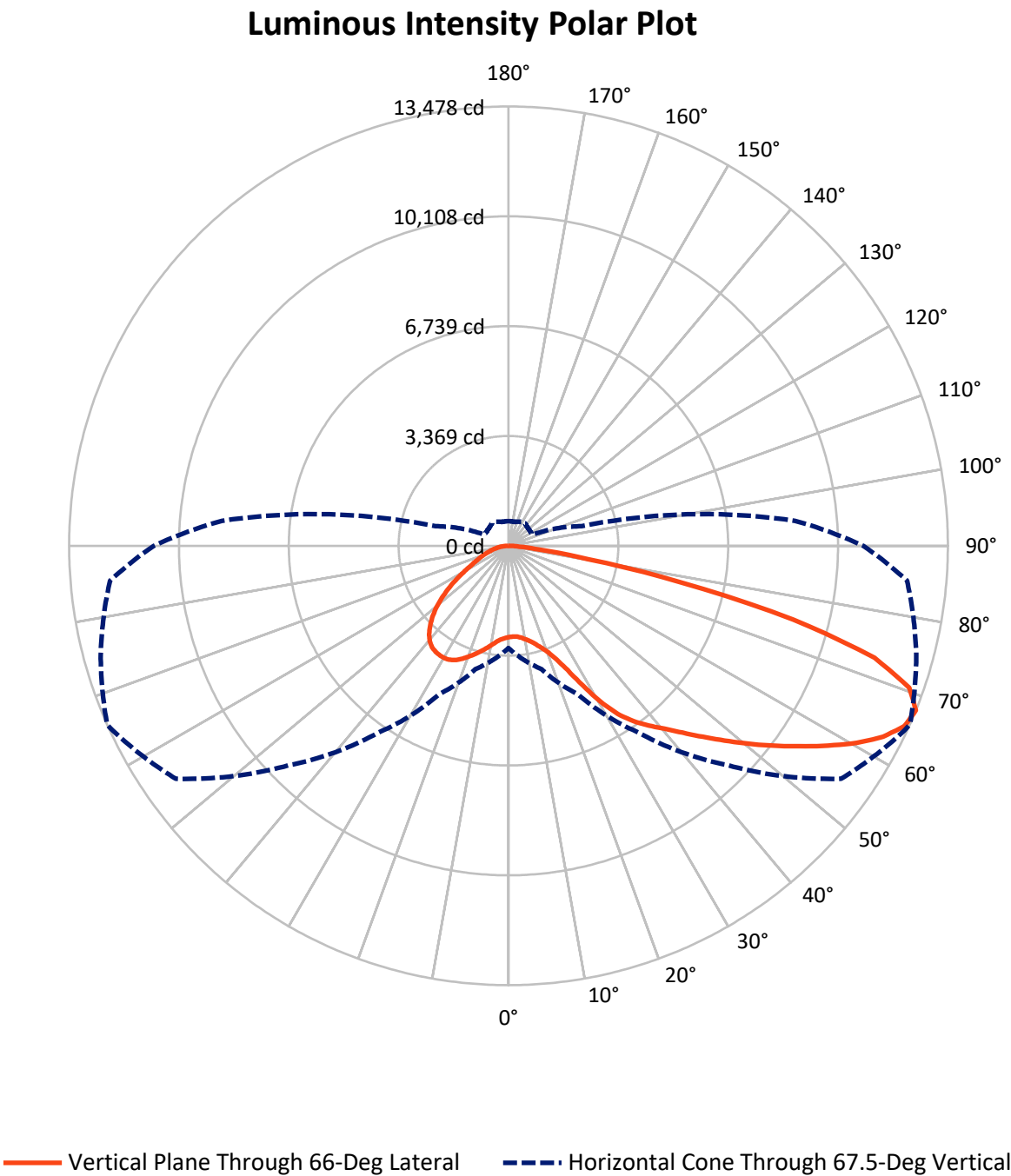
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Short - N/A

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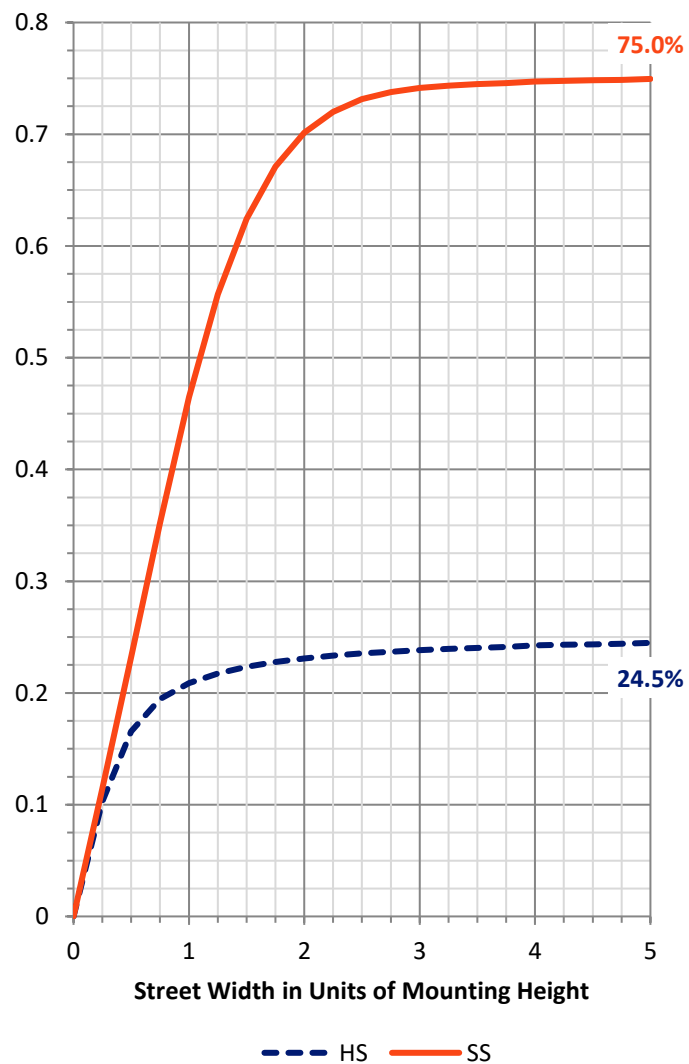
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6277.8	0.0	6277.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18970.2	0.0	18970.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	25248.0	0.0	25248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	1.1
10°-20°	917.3	3.6
20°-30°	1768.0	7.0
30°-40°	3100.0	12.3
40°-50°	4608.7	18.3
50°-60°	5842.0	23.1
60°-70°	5716.2	22.6
70°-80°	2726.7	10.8
80°-90°	291.4	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°	25248.0	100.0
0°-180°	25248.0	100.0

Coefficient of Utilization



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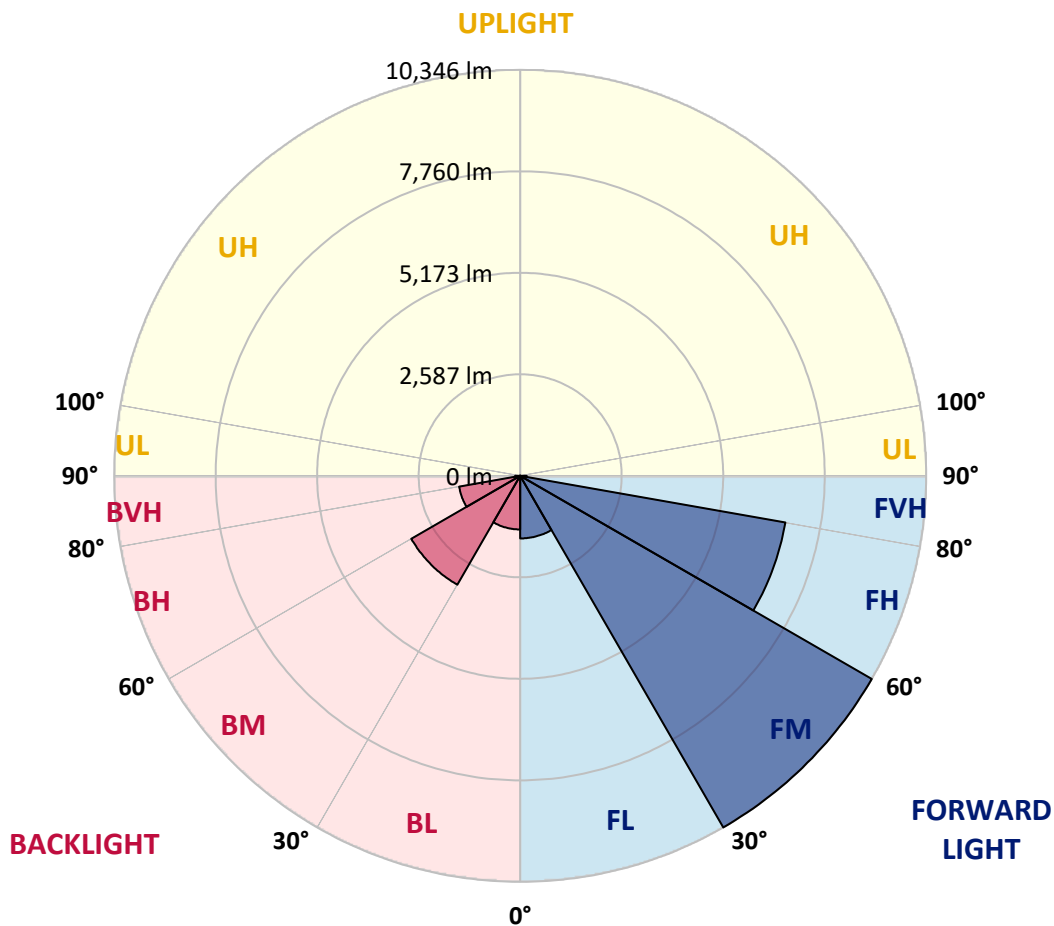
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1595.4	6.3			
FM	(30°-60°)	10346.4	41.0			
FH	(60°-80°)	6863.1	27.2			G3/7500
FVH	(80°-90°)	165.2	0.7			G2/225
BL	(0°-30°)	1367.5	5.4	B3/2500		
BM	(30°-60°)	3204.3	12.7	B3/5000		
BH	(60°-80°)	1579.8	6.3	B3/2500		G3/2500
BVH	(80°-90°)	126.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3
2.5°	2771.2	2787.1	2783.1	2776.5	2775.1	2777.8	2781.8	2785.7	2784.4	2791.1	2801.7
5°	2763.2	2779.1	2777.8	2777.8	2783.1	2793.7	2800.3	2807.0	2800.3	2808.3	2822.9
7.5°	2768.5	2780.4	2785.7	2791.1	2804.3	2824.2	2840.1	2854.7	2846.8	2856.1	2874.6
10°	2836.2	2845.4	2850.7	2850.7	2860.0	2882.6	2898.5	2925.0	2918.4	2933.0	2956.9
12.5°	2959.5	2968.8	2968.8	2963.5	2970.1	2984.7	2990.0	3019.2	3007.3	3031.2	3055.0
15°	3110.7	3129.3	3114.7	3105.4	3108.1	3122.7	3121.4	3143.9	3132.0	3151.9	3173.1
17.5°	3277.9	3301.8	3277.9	3276.6	3271.3	3287.2	3288.5	3308.4	3287.2	3301.8	3316.4
20°	3475.5	3508.7	3488.8	3495.4	3483.5	3490.1	3496.8	3526.0	3492.8	3503.4	3499.4
22.5°	3754.1	3793.9	3772.7	3797.9	3789.9	3784.6	3783.3	3835.0	3783.3	3787.3	3748.8
25°	4160.0	4207.8	4170.7	4205.1	4205.1	4222.4	4242.3	4308.6	4222.4	4197.2	4097.7
27.5°	4759.6	4807.4	4734.4	4755.7	4749.0	4791.5	4770.3	4934.7	4841.9	4800.8	4600.5
30°	5481.3	5566.2	5428.2	5422.9	5416.3	5483.9	5514.4	5623.2	5529.0	5487.9	5246.5
32.5°	6261.3	6350.2	6185.7	6137.9	6112.7	6153.8	6128.6	6216.2	6151.2	6087.5	5789.0
35°	7086.4	7174.0	7017.4	6924.6	6823.7	6737.5	6647.3	6669.9	6608.8	6512.0	6202.9
37.5°	7866.4	8026.9	7861.1	7761.6	7575.9	7407.4	7155.4	7050.6	6993.5	6904.7	6592.9
40°	8661.0	8752.5	8626.5	8541.6	8340.0	8076.0	7672.7	7451.2	7374.3	7288.0	7024.1
42.5°	9246.0	9333.6	9265.9	9207.6	9049.7	8743.3	8221.9	7944.7	7833.2	7736.4	7512.2
45°	9710.3	9775.3	9732.9	9754.1	9686.4	9389.3	8791.0	8474.0	8358.6	8240.5	8064.1
47.5°	9897.4	9966.3	10034.0	10160.0	10275.4	10056.5	9402.6	9047.0	8925.0	8804.3	8630.5
50°	9876.1	9946.4	10142.8	10410.7	10768.9	10695.9	10047.3	9657.2	9544.5	9406.5	9246.0
52.5°	9706.3	9785.9	10038.0	10483.7	11054.1	11174.8	10703.9	10287.4	10181.2	10016.7	9856.2
55°	9260.6	9308.4	9686.4	10317.9	11121.8	11509.1	11347.3	10958.6	10852.5	10623.0	10447.9
57.5°	8434.2	8503.2	9053.7	9870.8	10952.0	11735.9	11912.4	11664.3	11562.2	11231.9	11048.8
60°	7355.7	7465.8	8095.9	9120.0	10519.5	11734.6	12425.7	12358.1	12273.2	11831.5	11640.4
62.5°	6135.3	6262.6	6868.9	8058.8	9763.4	11401.7	12746.8	12939.1	12895.3	12384.6	12140.5
65°	4711.9	4799.4	5403.0	6685.8	8586.7	10686.6	12783.9	13335.8	13343.7	12805.1	12401.9
67.5°	3137.3	3389.3	3913.3	5017.0	7010.8	9518.0	12457.6	13400.8	13477.7	12949.7	12270.5
70°	1530.8	1862.5	2375.8	3260.6	5017.0	7725.8	11604.6	12867.5	13038.6	12527.9	11487.9
72.5°	635.4	742.9	1022.8	1609.1	2879.9	5213.3	9890.7	11421.6	11738.6	11100.5	9658.6
75°	428.5	464.3	585.0	825.1	1312.0	2570.8	7132.8	8516.4	9027.1	8383.8	6852.9
77.5°	330.3	352.9	425.8	577.0	780.0	972.4	3817.8	5132.4	5396.4	4995.8	3565.8
80°	260.0	277.2	318.4	420.5	553.2	520.0	1301.3	2325.4	2478.0	2078.7	1146.1
82.5°	225.5	232.1	228.2	285.2	367.5	303.8	427.1	858.3	947.2	687.2	374.1
85°	163.2	181.7	189.7	176.4	195.0	153.9	175.1	303.8	334.3	298.5	210.9
87.5°	66.3	98.2	120.7	114.1	71.6	43.8	54.4	88.9	102.1	111.4	69.0
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°	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3	2800.3
2.5°	2803.0	2812.3	2818.9	2826.9	2832.2	2840.1	2856.1	2865.3	2866.7	2873.3	2872.0
5°	2828.2	2841.5	2856.1	2877.3	2901.2	2921.1	2951.6	2972.8	2980.7	2987.4	2986.1
7.5°	2882.6	2901.2	2927.7	2964.8	2999.3	3025.8	3063.0	3088.2	3113.4	3122.7	3124.0
10°	2963.5	2990.0	3028.5	3078.9	3116.1	3150.5	3189.0	3210.2	3235.4	3246.1	3251.4
12.5°	3064.3	3092.2	3142.6	3212.9	3247.4	3271.3	3284.5	3279.2	3284.5	3293.8	3296.5
15°	3179.7	3210.2	3267.3	3342.9	3366.8	3345.5	3316.4	3289.8	3285.9	3288.5	3297.8
17.5°	3316.4	3338.9	3405.2	3468.9	3451.7	3364.1	3300.4	3258.0	3236.8	3230.1	3239.4
20°	3507.4	3507.4	3561.8	3601.6	3486.2	3337.6	3238.1	3169.1	3125.3	3106.8	3102.8
22.5°	3739.5	3718.3	3752.8	3724.9	3479.5	3263.3	3125.3	3006.0	2939.6	2913.1	2909.1
25°	4034.0	4008.8	3999.5	3827.1	3431.8	3145.2	2921.1	2776.5	2718.1	2703.5	2706.2
27.5°	4478.4	4414.7	4294.0	3882.8	3344.2	2959.5	2682.3	2548.3	2515.1	2516.5	2520.4
30°	5070.1	4942.7	4646.9	3892.1	3201.0	2696.9	2438.2	2342.7	2326.8	2333.4	2355.9
32.5°	5617.9	5497.2	5007.7	3849.6	2980.7	2439.5	2219.3	2155.6	2131.8	2139.7	2150.3
35°	6047.7	6014.6	5342.0	3789.9	2710.1	2198.1	2023.0	1968.6	1922.2	1911.6	1919.5
37.5°	6453.6	6440.4	5592.7	3706.4	2442.2	2027.0	1865.1	1793.5	1725.8	1688.7	1690.0
40°	6899.4	6886.1	5757.2	3577.7	2204.7	1878.4	1723.2	1629.0	1545.4	1477.8	1484.4
42.5°	7400.8	7322.5	5835.5	3393.3	2003.1	1752.4	1607.8	1480.4	1370.3	1308.0	1312.0
45°	7948.7	7772.2	5834.1	3158.5	1833.3	1637.0	1484.4	1304.0	1201.8	1143.5	1140.8
47.5°	8529.7	8202.0	5762.5	2898.5	1668.8	1509.6	1293.4	1155.4	1087.8	1052.0	1044.0
50°	9129.3	8604.0	5640.5	2600.0	1500.3	1365.0	1174.0	1079.8	1028.1	994.9	983.0
52.5°	9693.1	8968.8	5493.2	2261.8	1329.2	1224.4	1120.9	1048.0	993.6	956.4	940.5
55°	10217.1	9283.2	5285.0	1915.5	1189.9	1130.2	1095.7	1034.7	972.4	928.6	911.3
57.5°	10682.7	9487.5	4925.5	1590.5	1090.4	1065.2	1069.2	1012.2	940.5	903.4	879.5
60°	11070.0	9637.4	4393.5	1289.4	1009.5	1001.5	1028.1	969.7	886.1	843.7	825.1
62.5°	11302.2	9634.7	3740.9	1055.9	940.5	943.2	973.7	916.6	831.7	791.9	780.0
65°	11282.3	9398.6	3024.5	903.4	874.2	876.8	916.6	858.3	786.6	762.8	761.4
67.5°	10883.0	8822.9	2320.1	803.9	801.2	813.2	859.6	818.5	758.8	756.1	760.1
70°	9801.8	7627.6	1671.4	724.3	725.6	742.9	803.9	793.3	744.2	749.5	748.2
72.5°	7859.8	5815.6	1122.3	640.7	642.0	669.9	750.8	773.4	729.6	799.9	810.5
75°	5234.5	3626.8	721.6	551.8	553.2	589.0	704.4	734.9	689.8	797.3	803.9
77.5°	2515.1	1630.3	522.7	464.3	464.3	497.5	608.9	658.0	587.7	619.5	567.8
80°	868.9	612.9	411.2	374.1	366.1	388.7	513.4	570.4	506.7	466.9	437.8
82.5°	342.2	318.4	330.3	290.5	264.0	278.6	399.3	470.9	372.8	336.9	335.6
85°	196.3	206.9	233.5	192.3	152.6	171.1	293.2	338.3	281.2	248.1	253.4
87.5°	53.1	73.0	107.5	99.5	69.0	73.0	139.3	187.0	161.8	124.7	128.7
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)