

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: P952008

Luminaire Tested: **GALN-SB6A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21006 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

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

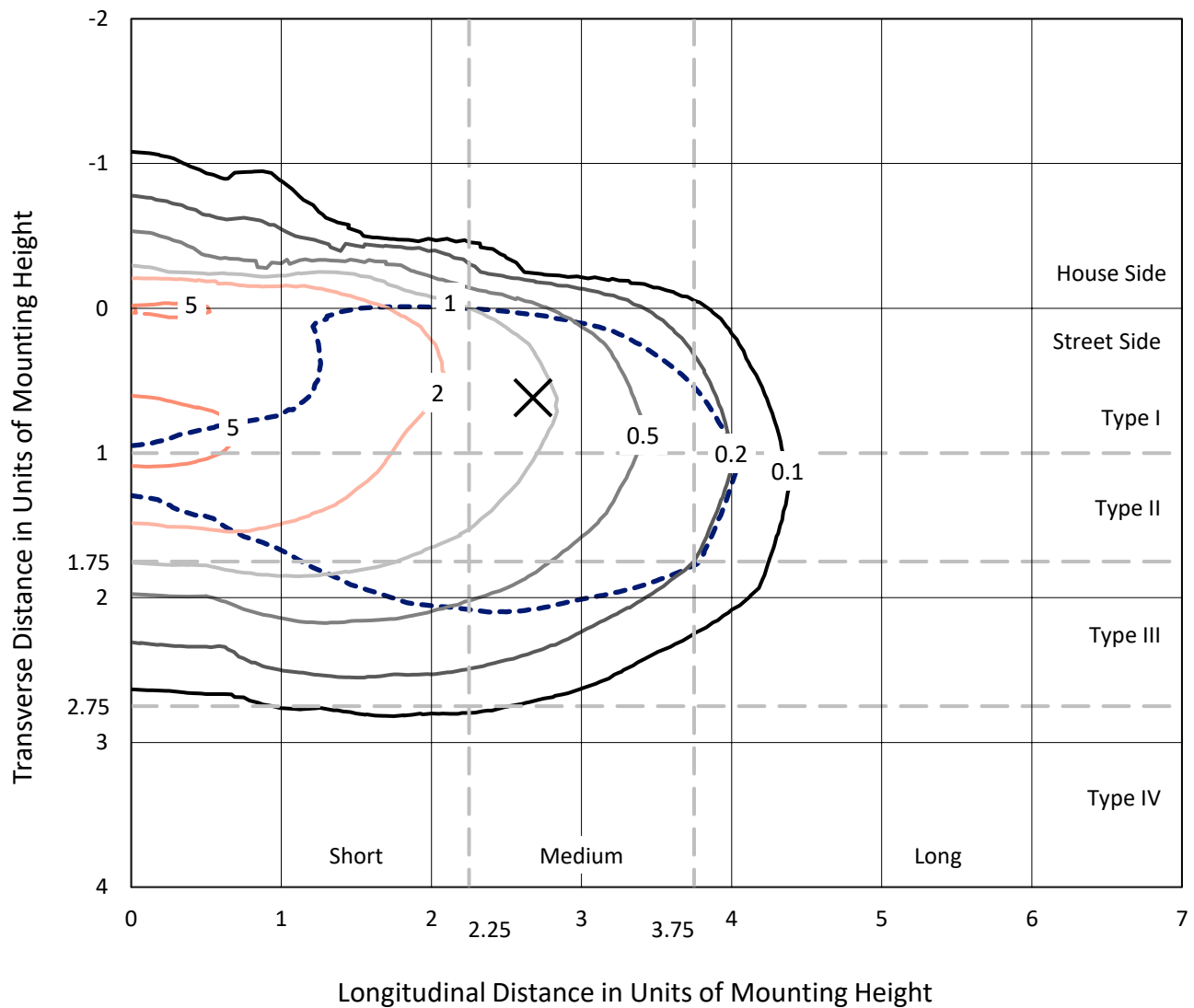


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Iso-Footcandle Lines of Horizontal Illumination

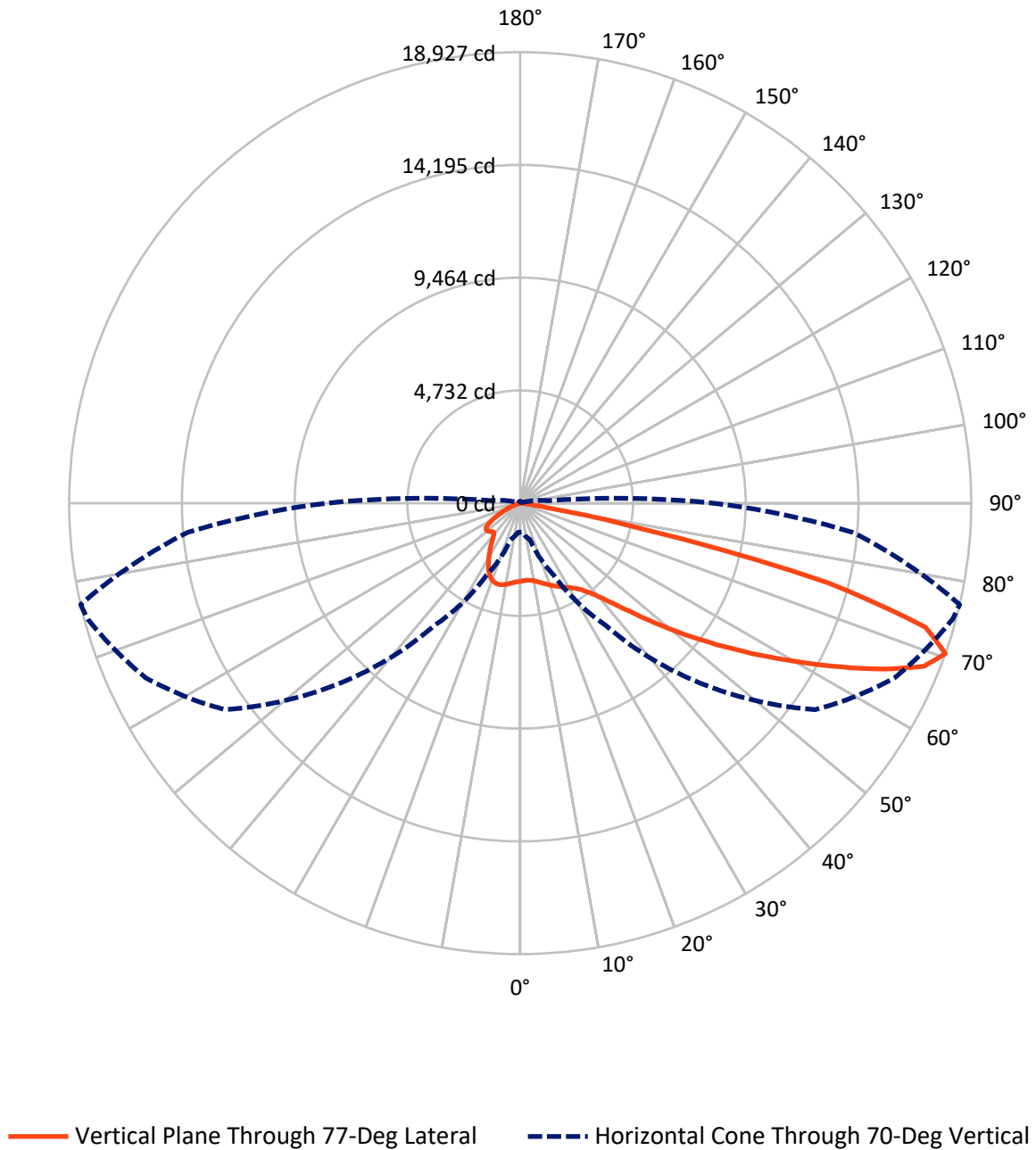
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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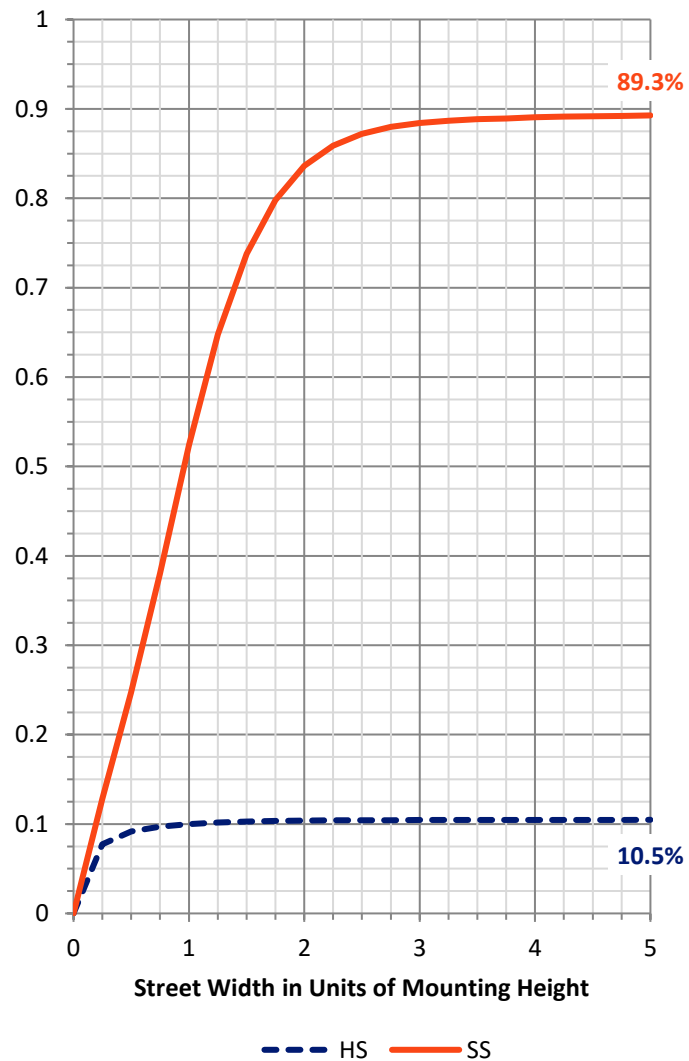
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2214.3	0.0	2214.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18791.7	0.0	18791.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	21006.0	0.0	21006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	1.3
10°-20°	670.4	3.2
20°-30°	1036.9	4.9
30°-40°	1881.4	9.0
40°-50°	3551.4	16.9
50°-60°	5131.5	24.4
60°-70°	5462.3	26.0
70°-80°	2894.7	13.8
80°-90°	95.0	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°	21006.0	100.0
0°-180°	21006.0	100.0

Coefficient of Utilization



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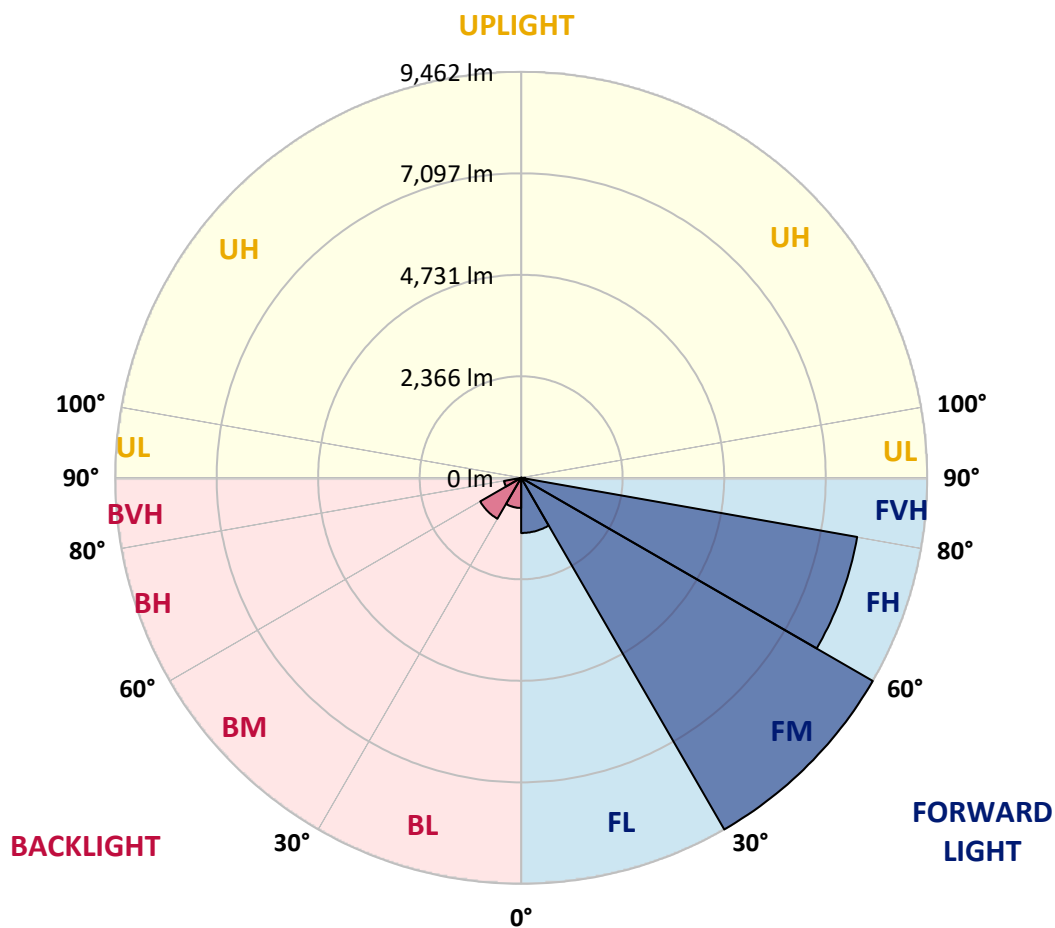
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.1	6.1			
FM	(30°-60°)	9462.0	45.0			
FH	(60°-80°)	7951.1	37.9			G4/12000
FVH	(80°-90°)	92.5	0.4			G1/100
BL	(0°-30°)	703.5	3.3	B2/1000		
BM	(30°-60°)	1102.3	5.2	B2/2500		
BH	(60°-80°)	405.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6
2.5°	3076.2	3104.1	3100.1	3118.7	3125.3	3151.9	3178.4	3214.2	3254.0	3252.7	3279.2
5°	2902.5	2930.3	2937.0	2962.2	2994.0	3035.1	3089.5	3161.1	3235.4	3247.4	3300.4
7.5°	2696.9	2726.0	2743.3	2793.7	2852.1	2937.0	3025.8	3130.6	3254.0	3271.3	3373.4
10°	2491.2	2517.8	2540.3	2612.0	2704.8	2830.8	2975.4	3126.7	3292.5	3317.7	3462.3
12.5°	2363.9	2389.1	2414.3	2476.7	2592.1	2745.9	2942.3	3145.2	3356.1	3392.0	3583.0
15°	2318.8	2341.3	2361.2	2417.0	2524.4	2699.5	2935.6	3183.7	3437.1	3484.8	3728.9
17.5°	2325.4	2337.4	2350.6	2393.1	2497.9	2678.3	2947.6	3250.0	3532.6	3575.0	3874.8
20°	2363.9	2370.5	2371.9	2401.0	2493.9	2675.6	2971.5	3313.7	3622.8	3679.8	4019.4
22.5°	2413.0	2415.6	2413.0	2432.9	2519.1	2695.5	3003.3	3390.6	3723.6	3776.7	4165.3
25°	2642.5	2592.1	2528.4	2489.9	2561.6	2734.0	3051.0	3494.1	3833.7	3885.4	4307.3
27.5°	3354.8	3210.2	2982.1	2726.0	2649.1	2789.7	3117.4	3598.9	3945.1	3991.6	4459.8
30°	4511.6	4321.9	3934.5	3357.5	2930.3	2906.5	3203.6	3703.7	4063.2	4113.6	4623.0
32.5°	5671.0	5624.5	5177.5	4378.9	3563.1	3166.5	3346.9	3845.6	4219.7	4259.5	4843.2
35°	6843.6	6749.4	6383.3	5594.0	4538.1	3695.7	3585.6	4031.4	4425.3	4470.4	5164.2
37.5°	7741.7	7684.7	7457.8	6807.8	5694.8	4512.9	3994.2	4319.2	4723.8	4774.2	5575.5
40°	8535.0	8508.4	8431.5	8003.0	6988.2	5582.1	4629.6	4764.9	5137.7	5197.4	6079.5
42.5°	9158.4	9220.8	9264.6	9145.2	8321.4	6802.5	5483.9	5391.1	5714.7	5775.8	6721.6
45°	9796.5	9817.7	9994.2	10166.6	9645.3	8078.6	6447.0	6124.6	6432.4	6508.0	7491.0
47.5°	10206.4	10291.3	10601.7	10905.5	10758.2	9344.2	7481.7	6990.9	7264.1	7406.1	8353.2
50°	10236.9	10397.4	10824.6	11353.9	11568.8	10548.7	8606.6	7977.8	8268.3	8424.9	9273.8
52.5°	9728.9	9978.2	10640.2	11414.9	12006.5	11568.8	9770.0	8964.8	9337.5	9541.8	10229.0
55°	7459.1	7785.5	9946.4	11083.3	12023.8	12342.1	10902.8	9992.8	10528.8	10759.6	11261.0
57.5°	6498.7	6663.2	7820.0	10507.5	11704.1	12653.9	11926.9	10971.8	11824.8	12111.3	12236.0
60°	5407.0	5623.2	6558.4	9565.7	11270.3	12684.4	12831.6	12234.7	13229.6	13551.9	13130.1
62.5°	3674.5	3909.3	4839.2	7947.3	10677.3	12669.8	13573.2	13534.7	14790.9	15137.2	13887.6
65°	2276.3	2423.6	3036.5	6489.4	9848.2	12685.7	14349.2	15113.3	16438.5	16790.0	14473.9
67.5°	1798.8	1866.4	2186.1	4982.5	8419.6	12327.5	15123.9	16597.7	17989.2	18267.8	14653.0
70°	1208.5	1249.6	1590.5	3340.2	6263.9	10674.7	15109.3	17343.2	18787.8	18927.1	14000.3
72.5°	636.7	668.6	929.9	1546.7	3783.3	7587.8	12736.1	16451.8	17993.2	17783.6	11966.7
75°	318.4	371.4	626.1	785.3	1615.7	4231.7	7908.8	12970.9	14162.2	13350.3	7678.0
77.5°	241.4	291.8	517.4	517.4	562.5	1424.7	3349.5	7074.4	6525.3	5433.5	2253.8
80°	153.9	199.0	452.4	391.3	234.8	362.1	872.9	1981.9	1386.2	1054.6	409.9
82.5°	90.2	130.0	376.7	258.7	131.3	134.0	246.7	421.8	359.5	279.9	126.0
85°	35.8	84.9	258.7	102.1	51.7	33.2	74.3	90.2	74.3	55.7	31.8
87.5°	0.0	19.9	45.1	0.0	4.0	2.7	5.3	6.6	6.6	5.3	10.6
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°	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6	3276.6
2.5°	3291.1	3293.8	3301.8	3303.1	3284.5	3260.6	3251.4	3247.4	3231.5	3230.1	3232.8
5°	3330.9	3342.9	3330.9	3296.5	3214.2	3098.8	3011.2	2939.6	2874.6	2854.7	2842.8
7.5°	3410.5	3422.5	3386.7	3251.4	3044.4	2814.9	2608.0	2462.1	2330.7	2281.7	2261.8
10°	3524.6	3540.5	3427.8	3154.5	2788.4	2419.6	2069.4	1822.7	1630.3	1552.1	1518.9
12.5°	3667.9	3674.5	3450.3	3007.3	2455.4	1928.8	1432.7	1168.7	997.6	933.9	914.0
15°	3825.7	3816.5	3453.0	2807.0	2001.8	1363.7	935.2	768.1	699.1	677.9	677.9
17.5°	3991.6	3953.1	3399.9	2517.8	1504.3	932.6	693.8	654.0	642.0	636.7	635.4
20°	4154.7	4068.5	3303.1	2139.7	1079.8	696.4	630.1	618.2	611.5	608.9	606.2
22.5°	4303.3	4156.1	3137.3	1700.6	784.0	615.5	595.6	585.0	573.1	567.8	566.4
25°	4447.9	4206.5	2903.8	1290.7	627.5	575.7	559.8	539.9	524.0	517.4	514.7
27.5°	4588.5	4238.3	2612.0	955.1	559.8	538.6	509.4	481.5	469.6	466.9	464.3
30°	4738.4	4248.9	2280.3	712.4	518.7	492.1	449.7	417.9	411.2	412.6	412.6
32.5°	4921.5	4264.8	1946.0	583.7	484.2	436.4	386.0	352.9	347.6	352.9	351.5
35°	5140.3	4296.7	1623.7	537.2	453.7	379.4	325.0	297.1	291.8	295.8	294.5
37.5°	5437.5	4348.4	1322.6	528.0	428.5	331.6	273.3	250.7	250.7	252.0	250.7
40°	5832.8	4486.4	1053.3	521.3	415.2	295.8	230.8	221.5	225.5	228.2	228.2
42.5°	6314.3	4779.5	871.5	513.4	400.6	279.9	209.6	205.6	212.2	214.9	214.9
45°	6854.2	5151.0	807.9	500.1	387.4	290.5	200.3	195.0	203.0	204.3	205.6
47.5°	7412.7	5514.4	799.9	485.5	374.1	306.4	197.7	185.7	195.0	196.3	197.7
50°	7977.8	5751.9	807.9	463.0	352.9	306.4	199.0	176.4	184.4	188.4	189.7
52.5°	8546.9	5860.7	802.6	413.9	315.7	287.9	199.0	168.5	176.4	179.1	179.1
55°	9098.7	5839.4	721.6	340.9	268.0	254.7	193.7	161.8	167.1	168.5	168.5
57.5°	9535.2	5543.6	571.7	265.3	217.6	212.2	176.4	153.9	157.9	156.5	156.5
60°	9763.3	4893.6	408.6	204.3	171.1	167.1	155.2	143.3	145.9	139.3	138.0
62.5°	9766.0	4034.0	273.3	161.8	136.6	132.7	132.7	128.7	126.0	112.8	108.8
65°	9557.7	3080.2	181.7	128.7	110.1	103.5	111.4	110.1	100.8	82.2	79.6
67.5°	9085.5	2019.0	138.0	100.8	84.9	80.9	88.9	92.9	86.2	69.0	67.7
70°	8114.5	1175.3	114.1	78.3	63.7	59.7	71.6	79.6	71.6	55.7	53.1
72.5°	6740.2	634.1	92.9	58.4	43.8	39.8	57.0	65.0	57.0	41.1	39.8
75°	4373.6	339.6	71.6	38.5	22.6	25.2	42.4	47.8	39.8	26.5	23.9
77.5°	1468.5	149.9	45.1	18.6	10.6	10.6	25.2	29.2	18.6	9.3	8.0
80°	327.7	62.3	18.6	8.0	4.0	4.0	5.3	5.3	2.7	0.0	0.0
82.5°	107.4	25.2	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.1	9.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	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)