

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: P942125

Luminaire Tested: **GALN-SB6A-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25000 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

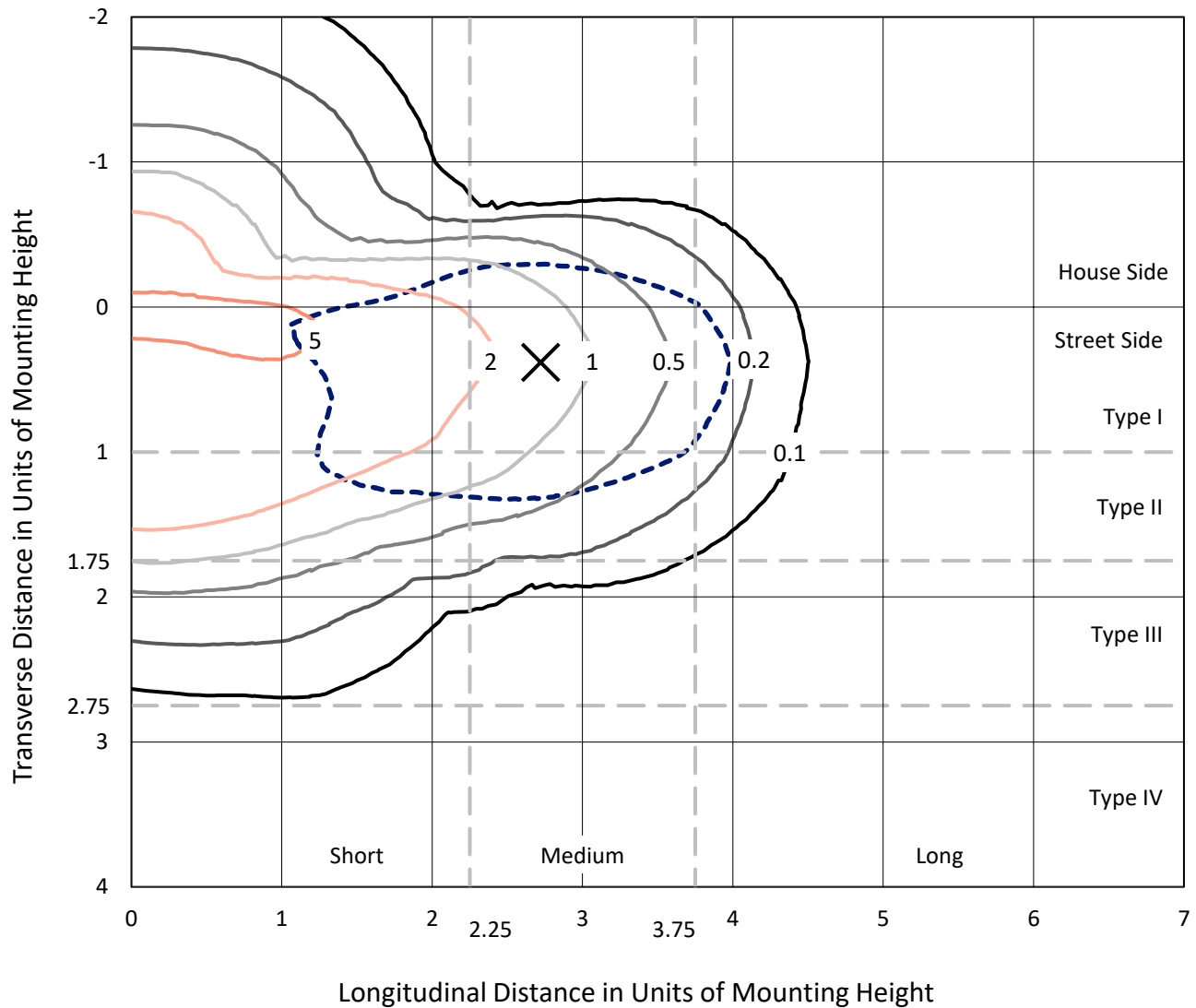


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

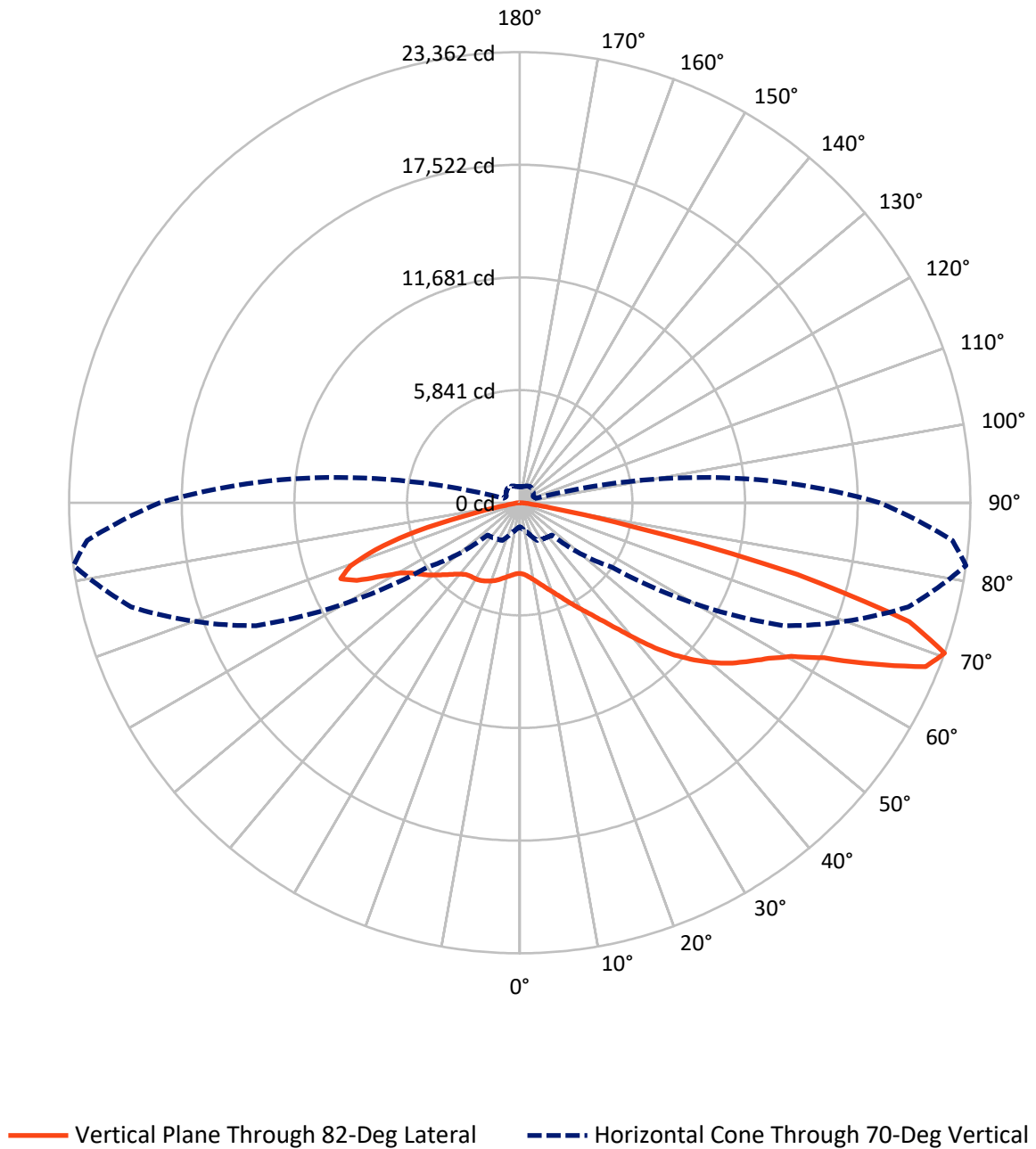


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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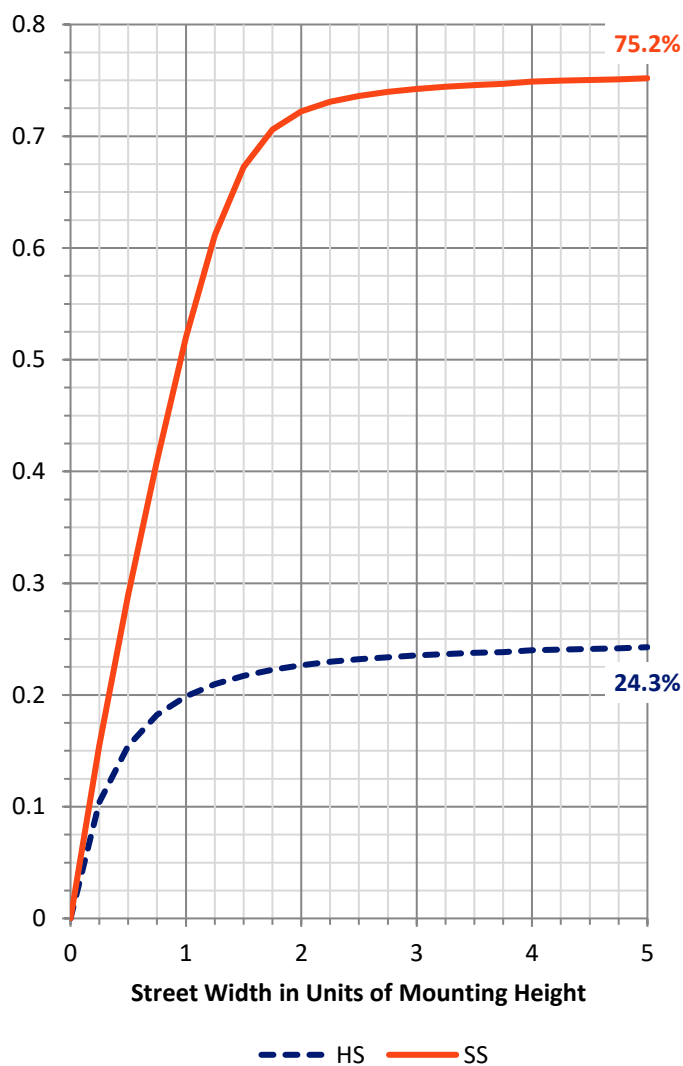
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6163.1	0.0	6163.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18836.9	0.0	18836.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	25000.0	0.0	25000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.1	1.4
10°-20°	994.3	4.0
20°-30°	1663.3	6.7
30°-40°	2598.6	10.4
40°-50°	4138.5	16.6
50°-60°	5759.2	23.0
60°-70°	6024.4	24.1
70°-80°	3148.7	12.6
80°-90°	327.0	1.3
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°	25000.0	100.0
0°-180°	25000.0	100.0

Coefficient of Utilization



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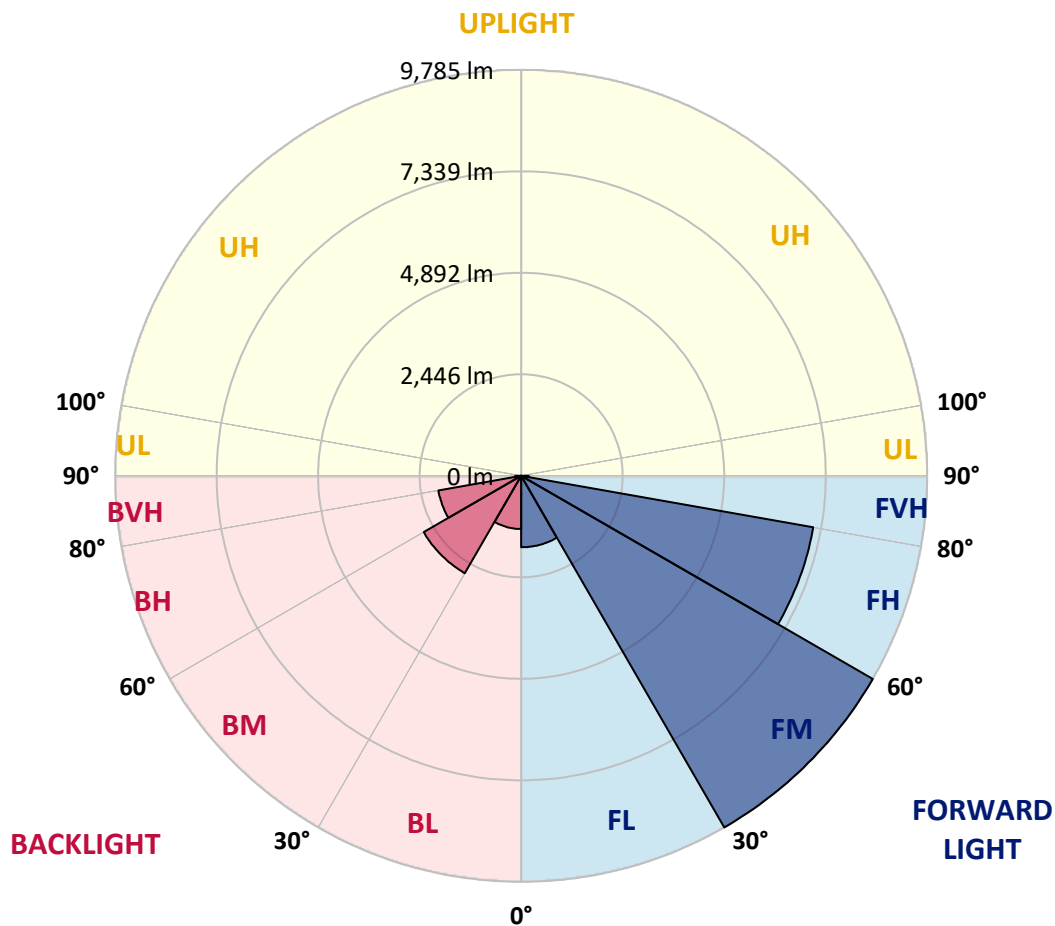
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1721.5	6.9			
FM	(30°-60°)	9784.7	39.1			
FH	(60°-80°)	7147.6	28.6			G3/7500
FVH	(80°-90°)	183.0	0.7			G2/225
BL	(0°-30°)	1282.2	5.1	B3/2500		
BM	(30°-60°)	2711.5	10.8	B3/5000		
BH	(60°-80°)	2025.5	8.1	B3/2500		G3/2500
BVH	(80°-90°)	143.9	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3
2.5°	3752.9	3774.1	3767.5	3760.8	3760.8	3751.5	3750.2	3736.9	3726.3	3709.1	3705.1
5°	3800.6	3823.2	3820.5	3825.8	3843.1	3847.1	3851.0	3843.1	3821.8	3800.6	3791.3
7.5°	3758.2	3783.4	3791.3	3823.2	3876.2	3924.0	3959.8	3974.4	3954.5	3924.0	3909.4
10°	3614.9	3642.8	3670.6	3746.2	3840.4	3953.2	4048.7	4105.7	4101.8	4072.6	4047.4
12.5°	3324.4	3353.6	3413.3	3560.5	3733.0	3932.0	4109.7	4229.1	4270.2	4249.0	4205.2
15°	3092.2	3117.4	3162.5	3313.8	3538.0	3840.4	4132.3	4364.4	4469.2	4457.3	4404.2
17.5°	3085.6	3096.2	3124.1	3195.7	3368.2	3697.2	4108.4	4497.1	4697.4	4696.1	4629.7
20°	3202.3	3206.3	3222.2	3236.8	3335.0	3588.4	4047.4	4607.2	4953.4	4953.4	4881.8
22.5°	3364.2	3361.5	3377.4	3364.2	3411.9	3579.1	4008.9	4704.0	5238.6	5259.8	5169.6
25°	3606.9	3593.7	3589.7	3559.2	3568.5	3665.3	4051.3	4814.1	5576.9	5620.7	5507.9
27.5°	3930.6	3909.4	3894.8	3824.5	3800.6	3843.1	4181.3	4946.8	5953.6	6029.3	5886.0
30°	4352.5	4314.0	4292.8	4170.7	4084.5	4091.1	4377.7	5123.2	6347.6	6469.7	6287.9
32.5°	4928.2	4868.5	4811.5	4611.2	4453.3	4401.6	4631.1	5367.3	6774.8	6969.8	6736.3
35°	5572.9	5525.2	5464.1	5155.1	4912.3	4792.9	4973.3	5708.2	7274.9	7584.0	7280.2
37.5°	6193.8	6152.6	6181.8	5765.3	5452.2	5278.4	5421.7	6165.9	7891.8	8348.1	7962.1
40°	6835.8	6804.0	6808.0	6410.0	6045.2	5850.2	5965.6	6740.3	8598.8	9256.8	8781.9
42.5°	7533.6	7509.7	7430.1	7077.3	6667.3	6485.6	6591.7	7403.6	9357.6	10291.5	9681.3
45°	8314.9	8300.3	8226.1	7821.5	7351.9	7147.6	7290.8	8135.9	10120.4	11265.2	10584.7
47.5°	8990.2	9002.1	8992.8	8651.9	8165.0	7865.2	8036.4	8900.0	10830.1	12180.6	11451.0
50°	9315.2	9377.5	9469.1	9362.9	9060.5	8755.4	8788.5	9637.5	11506.7	13038.9	12281.4
52.5°	9145.4	9263.4	9512.8	9682.6	9799.4	9735.7	9646.8	10369.8	12143.4	13813.6	13066.7
55°	8512.6	8678.4	9092.3	9502.2	10097.9	10560.8	10677.6	11181.7	12764.3	14495.4	13809.6
57.5°	7359.8	7629.1	8000.5	8829.6	9832.5	10960.1	11879.4	12307.9	13422.2	15223.7	14587.0
60°	5383.2	5744.0	6205.7	7439.4	8903.9	10746.5	12902.2	14037.8	14357.5	16166.9	15599.1
62.5°	3445.1	3668.0	4092.5	5254.5	6938.0	9652.1	13215.3	16200.1	15942.7	17713.7	17116.7
65°	2358.6	2501.9	2890.6	3543.3	4485.1	7184.7	12376.9	17821.1	18460.5	20165.2	19711.5
67.5°	1713.9	1822.7	2154.3	2726.1	2922.4	4251.7	9604.4	17746.9	20908.1	22691.0	21985.2
70°	1249.6	1326.6	1605.1	2154.3	2248.5	2365.3	5818.3	15085.8	20855.0	23362.2	22517.2
72.5°	925.9	979.0	1166.1	1671.5	1820.1	1597.2	2880.0	10964.1	17920.6	21130.9	20453.1
75°	669.9	709.7	847.7	1278.8	1456.6	1216.5	1436.7	6407.3	12500.3	14864.2	14983.6
77.5°	512.1	542.6	632.8	936.6	1166.1	912.7	891.5	2947.6	5927.1	5956.3	6290.6
80°	411.2	431.1	480.2	659.3	894.1	683.2	581.0	1189.9	1873.1	1585.3	1663.5
82.5°	302.5	335.6	405.9	463.0	639.4	470.9	354.2	600.9	712.4	612.9	618.2
85°	172.5	195.0	245.4	331.6	408.6	287.9	203.0	266.6	331.6	271.9	242.8
87.5°	61.0	79.6	86.2	130.0	177.8	119.4	78.3	76.9	108.8	80.9	67.7
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°	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3	3665.3
2.5°	3691.8	3685.2	3658.7	3622.9	3585.7	3549.9	3538.0	3512.8	3495.5	3486.2	3496.8
5°	3766.1	3744.9	3682.6	3603.0	3519.4	3429.2	3365.5	3307.1	3264.7	3224.9	3240.8
7.5°	3872.3	3835.1	3727.7	3588.4	3439.8	3289.9	3178.5	3093.6	3036.5	2999.4	3007.3
10°	3995.6	3938.6	3774.1	3565.8	3336.3	3121.4	2990.1	2917.1	2881.3	2861.4	2866.7
12.5°	4137.6	4056.7	3821.8	3514.1	3178.5	2933.0	2842.8	2821.6	2822.9	2824.3	2826.9
15°	4312.7	4199.9	3860.3	3401.3	2972.8	2788.4	2772.5	2807.0	2842.8	2860.1	2858.8
17.5°	4510.3	4351.1	3867.0	3215.6	2771.2	2695.6	2746.0	2820.3	2874.7	2898.6	2903.9
20°	4722.6	4505.0	3819.2	2952.9	2605.4	2620.0	2710.2	2805.7	2865.4	2895.9	2903.9
22.5°	4965.4	4669.5	3705.1	2677.0	2470.1	2537.7	2643.9	2736.7	2799.1	2829.6	2837.5
25°	5242.6	4853.9	3526.0	2444.9	2353.3	2444.9	2551.0	2627.9	2678.3	2706.2	2714.2
27.5°	5550.4	5046.3	3287.2	2260.5	2251.2	2349.4	2436.9	2496.6	2523.1	2544.4	2552.3
30°	5859.5	5221.4	2998.0	2121.2	2162.3	2255.2	2317.5	2344.0	2352.0	2356.0	2365.3
32.5°	6193.8	5372.6	2694.3	2005.8	2077.4	2163.6	2200.8	2212.7	2175.6	2150.4	2158.3
35°	6598.4	5534.4	2397.1	1914.2	1993.8	2068.1	2080.1	2069.4	2025.7	1973.9	1976.6
37.5°	7098.5	5736.1	2159.7	1849.2	1915.6	1964.7	1950.1	1947.4	1951.4	1890.4	1894.3
40°	7711.4	5998.7	1985.9	1798.8	1851.9	1862.5	1821.4	1843.9	1863.8	1771.0	1773.6
42.5°	8391.9	6315.8	1875.8	1764.3	1798.8	1773.6	1709.9	1735.2	1732.5	1610.5	1609.1
45°	9085.7	6660.7	1837.3	1739.1	1749.7	1699.3	1629.0	1635.7	1579.9	1469.8	1473.8
47.5°	9775.5	7030.8	1861.2	1717.9	1688.7	1631.7	1577.3	1548.1	1465.9	1383.6	1383.6
50°	10452.0	7419.5	1948.7	1675.5	1605.1	1572.0	1532.2	1480.5	1392.9	1322.6	1317.3
52.5°	11079.5	7810.8	2046.9	1605.1	1500.4	1520.2	1495.0	1435.3	1349.1	1277.5	1278.8
55°	11673.8	8202.2	2085.4	1508.3	1402.2	1475.1	1460.6	1350.4	1247.0	1188.6	1183.3
57.5°	12321.2	8673.1	2042.9	1384.9	1322.6	1423.4	1367.7	1245.6	1186.0	1142.2	1138.2
60°	13217.9	9412.0	1951.4	1232.4	1247.0	1346.5	1251.0	1200.5	1135.5	1086.5	1083.8
62.5°	14707.7	10790.3	1804.1	1081.2	1158.1	1232.4	1195.2	1144.8	1078.5	1030.7	1030.7
65°	16909.8	12705.9	1526.9	963.1	1058.6	1121.0	1135.5	1085.1	1016.2	965.7	968.4
67.5°	18767.0	13907.8	1155.4	864.9	956.5	1030.7	1071.9	1022.8	949.8	900.7	902.1
70°	18664.8	13034.9	882.2	768.1	866.3	941.9	994.9	956.5	878.2	831.8	835.7
72.5°	16578.1	10904.4	713.7	669.9	774.7	849.0	912.7	883.5	803.9	758.8	758.8
75°	12179.2	7740.5	570.4	570.4	660.6	752.2	822.5	803.9	730.9	699.1	689.8
77.5°	5133.8	3247.4	447.1	473.6	549.2	646.0	733.6	740.2	676.6	716.3	650.0
80°	1365.0	895.4	340.9	372.8	431.1	533.3	638.1	635.4	566.4	529.3	492.2
82.5°	520.0	352.9	242.8	262.7	311.7	408.6	505.4	521.3	452.4	391.3	391.3
85°	200.3	151.2	149.9	157.9	181.7	270.6	382.1	395.3	340.9	289.2	298.5
87.5°	51.7	45.1	55.7	53.1	83.6	144.6	218.9	226.8	208.3	120.7	172.5
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)