

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: P953416

Luminaire Tested: **GALN-SB7A-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27054 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 199.1
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



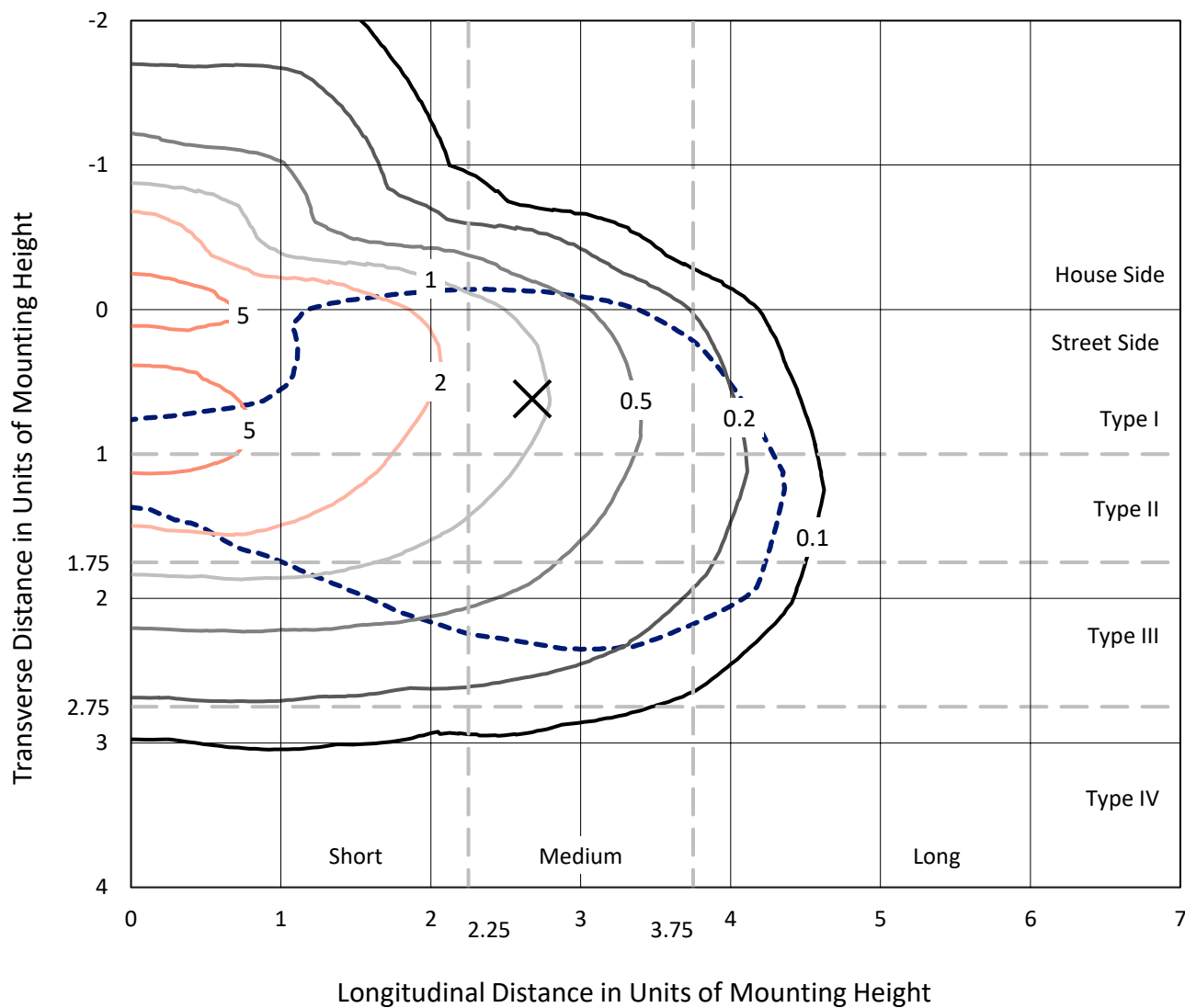
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Iso-Footcandle Lines of Horizontal Illumination

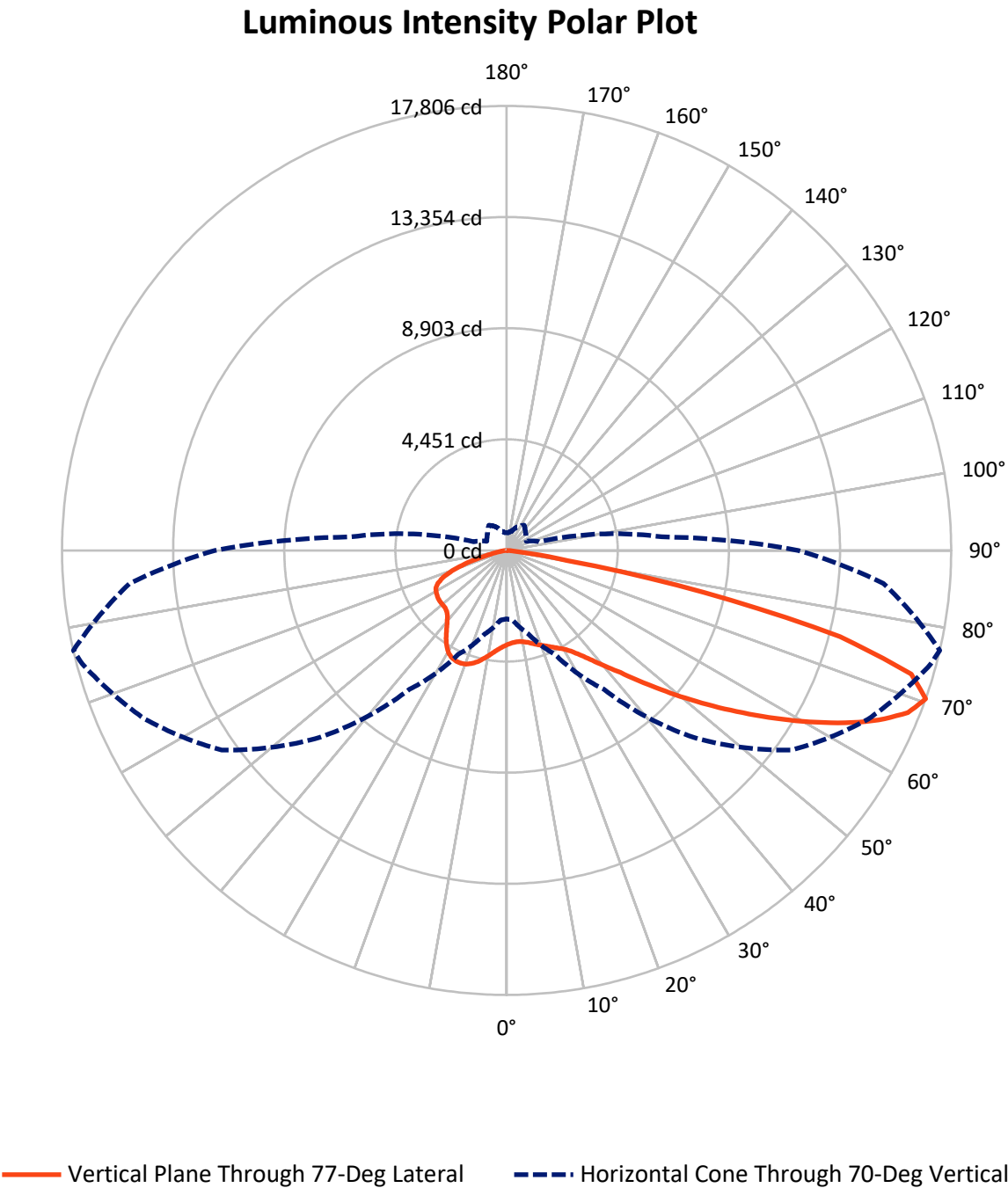
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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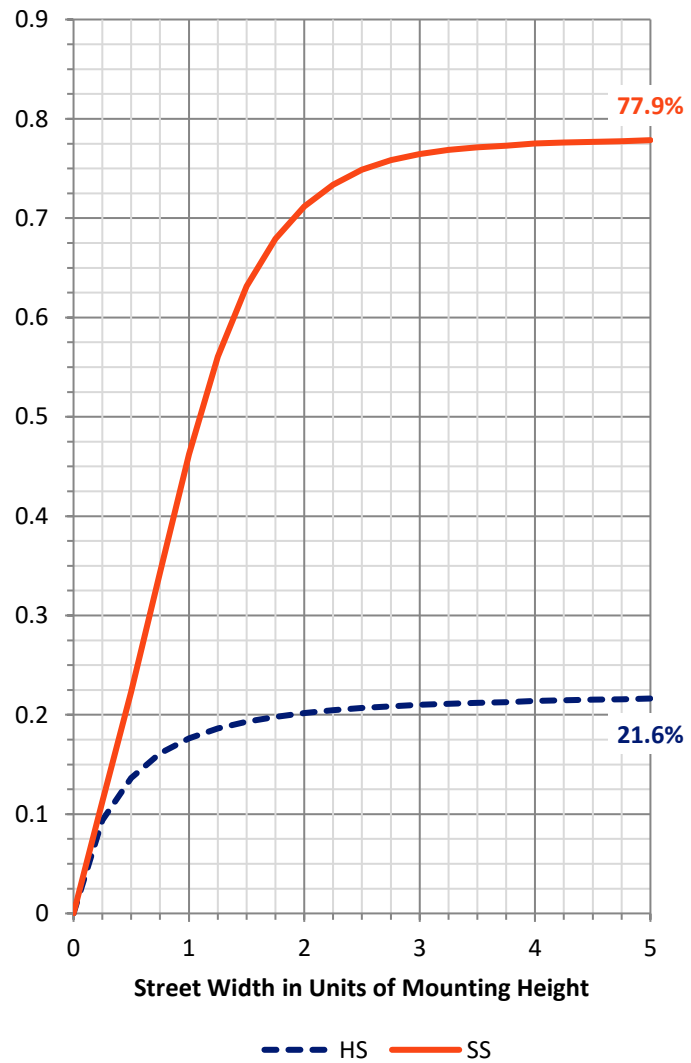
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5924.4	0.0	5924.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21129.6	0.0	21129.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	27054.0	0.0	27054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.3
10°-20°	1038.9	3.8
20°-30°	1776.7	6.6
30°-40°	2857.0	10.6
40°-50°	4460.6	16.5
50°-60°	5958.3	22.0
60°-70°	6350.6	23.5
70°-80°	3909.4	14.5
80°-90°	342.6	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°	27054.0	100.0
0°-180°	27054.0	100.0

Coefficient of Utilization



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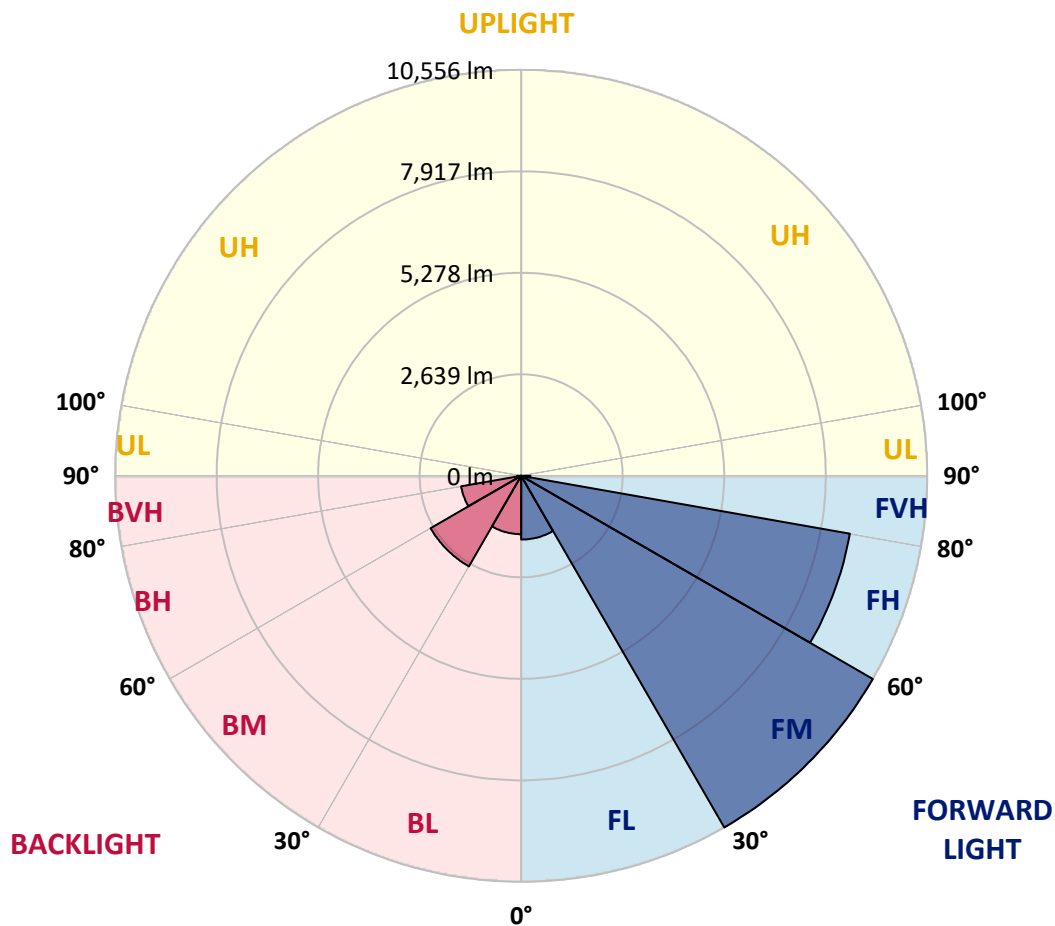
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1657.5	6.1			
FM	(30°-60°)	10555.9	39.0			
FH	(60°-80°)	8676.7	32.1			G4/12000
FVH	(80°-90°)	239.5	0.9			G3/500
BL	(0°-30°)	1518.0	5.6	B3/2500		
BM	(30°-60°)	2720.0	10.1	B3/5000		
BH	(60°-80°)	1583.3	5.9	B3/2500		G3/2500
BVH	(80°-90°)	103.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3
2.5°	3479.2	3477.8	3495.8	3501.3	3534.6	3558.1	3602.5	3649.6	3710.5	3717.5	3754.9
5°	3278.2	3278.2	3299.0	3321.2	3364.2	3411.3	3479.2	3560.9	3666.2	3682.8	3775.7
7.5°	3107.8	3118.9	3136.9	3179.9	3229.8	3297.6	3401.6	3518.0	3656.5	3682.8	3832.5
10°	2970.7	2983.1	3005.3	3039.9	3114.8	3209.0	3344.8	3494.4	3680.1	3721.6	3915.6
12.5°	2927.7	2940.2	2952.6	2979.0	3048.2	3159.1	3321.2	3505.5	3736.9	3778.4	4029.2
15°	3027.5	3042.7	3033.0	3026.1	3062.1	3163.2	3332.3	3545.7	3807.5	3867.1	4169.2
17.5°	3257.5	3263.0	3240.8	3175.7	3170.2	3224.2	3384.9	3601.1	3896.2	3961.3	4310.5
20°	3628.8	3619.1	3573.4	3444.5	3371.1	3360.0	3475.0	3684.2	3987.7	4056.9	4462.9
22.5°	4133.1	4122.1	4030.6	3826.9	3663.4	3555.4	3605.2	3792.3	4090.2	4167.8	4611.2
25°	4762.2	4746.9	4612.5	4335.4	4081.9	3814.5	3782.6	3935.0	4216.3	4288.3	4766.3
27.5°	5496.5	5484.1	5338.6	4972.8	4607.0	4169.2	4002.9	4102.7	4347.9	4429.7	4940.9
30°	6286.3	6322.3	6064.6	5671.1	5208.3	4631.9	4299.4	4309.1	4518.3	4591.8	5152.9
32.5°	7214.6	7277.0	6966.6	6467.8	5836.0	5134.9	4673.5	4597.3	4766.3	4827.3	5420.3
35°	8134.7	8205.3	7947.6	7396.1	6668.7	5727.9	5064.2	4928.5	5096.1	5162.6	5775.0
37.5°	8930.0	9024.2	8891.2	8411.8	7559.6	6442.9	5574.1	5317.8	5502.1	5585.2	6251.7
40°	9557.6	9701.7	9692.0	9392.7	8609.9	7310.2	6221.2	5798.6	6006.4	6096.5	6829.5
42.5°	10067.5	10192.2	10300.3	10285.1	9705.9	8295.4	6981.9	6423.5	6581.4	6685.4	7479.3
45°	10419.5	10552.5	10785.2	11036.0	10760.3	9349.8	7853.4	7164.8	7308.9	7465.4	8253.8
47.5°	10734.0	10885.0	11187.1	11584.7	11655.4	10408.4	8808.0	8028.0	8159.6	8321.7	9031.1
50°	10761.7	10891.9	11360.2	11924.2	12291.3	11425.4	9833.4	8996.5	9119.8	9293.0	9863.8
52.5°	10092.5	10297.5	11115.0	11914.5	12583.7	12276.1	10851.7	10003.8	10142.3	10350.2	10725.7
55°	7834.0	8134.7	10395.9	11543.1	12479.8	12826.2	11820.3	11074.8	11252.2	11469.7	11593.0
57.5°	6747.7	6879.3	8252.4	10867.0	12005.9	12968.9	12637.7	12156.9	12442.4	12680.7	12510.3
60°	6064.6	6174.1	6986.0	9815.3	11382.4	12743.0	13269.6	13165.6	13658.9	13942.9	13448.3
62.5°	5333.0	5437.0	6175.5	8195.6	10584.3	12367.6	13668.6	14096.7	14905.9	15216.3	14332.3
65°	4607.0	4695.7	5403.7	6886.3	9570.1	11992.1	13875.1	14901.8	16060.1	16381.5	15066.6
67.5°	3797.8	3871.3	4540.5	5809.7	8336.9	11478.0	13977.6	15535.0	17064.6	17340.3	15429.7
70°	2740.6	2797.5	3488.9	4594.5	6789.3	10594.0	13936.0	15983.9	17585.6	17805.9	15155.3
72.5°	1295.5	1346.8	2158.7	2983.1	4795.4	8873.2	13095.0	15627.8	17056.3	16946.8	13476.0
75°	691.4	735.7	1240.1	1636.4	2532.8	6082.6	10716.0	13462.2	14322.6	13790.5	9959.4
77.5°	468.3	503.0	767.6	982.4	1156.9	2887.5	6887.6	9320.7	8967.4	8088.9	4988.0
80°	371.3	407.4	629.0	665.1	559.8	1043.3	2846.0	4314.7	3099.5	2478.8	1418.8
82.5°	285.4	325.6	529.3	482.2	304.8	428.1	828.6	1364.8	793.9	604.1	343.6
85°	174.6	217.5	415.7	307.6	171.8	195.4	281.3	379.6	242.5	202.3	123.3
87.5°	88.7	124.7	210.6	112.2	77.6	45.7	74.8	74.8	63.7	55.4	31.9
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°	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3	3774.3
2.5°	3788.1	3815.8	3863.0	3907.3	3941.9	3975.2	4008.4	4026.5	4032.0	4054.2	4066.6
5°	3832.5	3883.7	3975.2	4061.1	4115.1	4148.4	4171.9	4185.8	4188.6	4195.5	4206.6
7.5°	3914.2	3996.0	4123.4	4209.3	4249.5	4246.8	4237.1	4202.4	4188.6	4176.1	4178.9
10°	4029.2	4137.3	4293.9	4353.4	4328.5	4262.0	4176.1	4074.9	4027.8	3982.1	3968.3
12.5°	4171.9	4309.1	4462.9	4460.1	4336.8	4166.4	3966.9	3811.7	3713.3	3642.7	3626.0
15°	4345.1	4503.1	4620.9	4526.6	4256.5	3950.2	3657.9	3455.6	3366.9	3289.3	3281.0
17.5°	4523.9	4692.9	4746.9	4505.9	4054.2	3630.2	3299.0	3139.7	3052.4	3010.8	3023.3
20°	4698.5	4866.1	4821.8	4386.7	3746.6	3267.2	2972.0	2884.7	2866.7	2876.4	2872.3
22.5°	4882.7	5032.4	4837.0	4156.7	3354.5	2895.8	2733.7	2736.5	2776.7	2805.8	2812.7
25°	5071.2	5172.3	4796.8	3824.2	2933.2	2622.9	2582.7	2627.0	2706.0	2762.8	2778.1
27.5°	5252.7	5297.0	4709.5	3412.6	2571.6	2427.5	2434.4	2525.9	2645.0	2724.0	2743.4
30°	5457.7	5407.9	4541.9	2949.9	2320.8	2259.9	2318.1	2424.7	2543.9	2614.6	2631.2
32.5°	5689.1	5503.5	4275.9	2521.7	2143.5	2125.5	2221.1	2290.3	2343.0	2363.8	2374.9
35°	5977.3	5637.9	3935.0	2221.1	1984.1	2027.1	2118.5	2083.9	2063.1	2052.0	2063.1
37.5°	6351.4	5819.4	3536.0	2025.7	1855.3	1956.4	1993.8	1885.8	1804.0	1763.8	1773.5
40°	6801.7	6085.4	3152.2	1874.7	1773.5	1895.5	1830.3	1700.1	1596.2	1539.4	1543.5
42.5°	7301.9	6363.9	2829.3	1761.1	1727.8	1845.6	1709.8	1554.6	1387.0	1368.9	1387.0
45°	7827.1	6650.7	2609.0	1673.8	1705.6	1802.6	1640.5	1389.7	1270.6	1344.0	1382.8
47.5°	8352.2	6914.0	2476.0	1608.6	1694.5	1754.1	1579.5	1298.3	1213.8	1320.4	1370.3
50°	8936.9	7149.5	2416.4	1561.5	1682.1	1734.7	1488.1	1274.7	1154.2	1224.8	1277.5
52.5°	9517.4	7332.4	2372.1	1514.4	1664.1	1719.5	1443.8	1247.0	1082.1	1086.3	1115.4
55°	10096.6	7451.6	2323.6	1452.1	1623.9	1686.2	1439.6	1216.5	1028.1	1008.7	1022.5
57.5°	10714.6	7519.5	2264.0	1382.8	1554.6	1601.7	1435.4	1193.0	1011.5	979.6	983.8
60°	11343.6	7619.2	2186.4	1298.3	1461.8	1500.6	1425.7	1184.7	1001.8	947.7	951.9
62.5°	11907.5	7653.9	2093.6	1217.9	1342.6	1400.8	1405.0	1177.7	975.4	882.6	882.6
65°	12277.5	7504.2	1931.5	1126.5	1213.8	1298.3	1364.8	1154.2	928.3	835.5	835.5
67.5°	12262.3	7077.5	1677.9	1008.7	1089.1	1184.7	1306.6	1114.0	871.5	777.3	781.5
70°	11691.4	6235.0	1356.5	871.5	951.9	1062.7	1231.8	1054.4	803.6	713.6	721.9
72.5°	10027.3	4880.0	985.1	710.8	792.5	936.6	1134.8	982.4	734.3	656.8	652.6
75°	7163.4	3088.4	667.8	545.9	616.6	793.9	1014.2	897.8	670.6	659.5	622.1
77.5°	3659.3	1475.6	442.0	399.0	429.5	626.3	852.1	802.2	680.3	544.5	484.9
80°	1190.2	544.5	278.5	271.6	285.4	417.1	659.5	658.1	515.4	369.9	327.0
82.5°	379.6	234.2	181.5	174.6	167.7	261.9	460.0	521.0	347.8	234.2	232.8
85°	151.0	139.9	106.7	98.4	70.7	123.3	241.1	346.4	259.1	169.0	173.2
87.5°	55.4	55.4	29.1	20.8	15.2	41.6	65.1	103.9	148.3	87.3	85.9
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)