

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: P950917

Luminaire Tested: **GALN-SB5B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950917
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-SB5B-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24123 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7
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



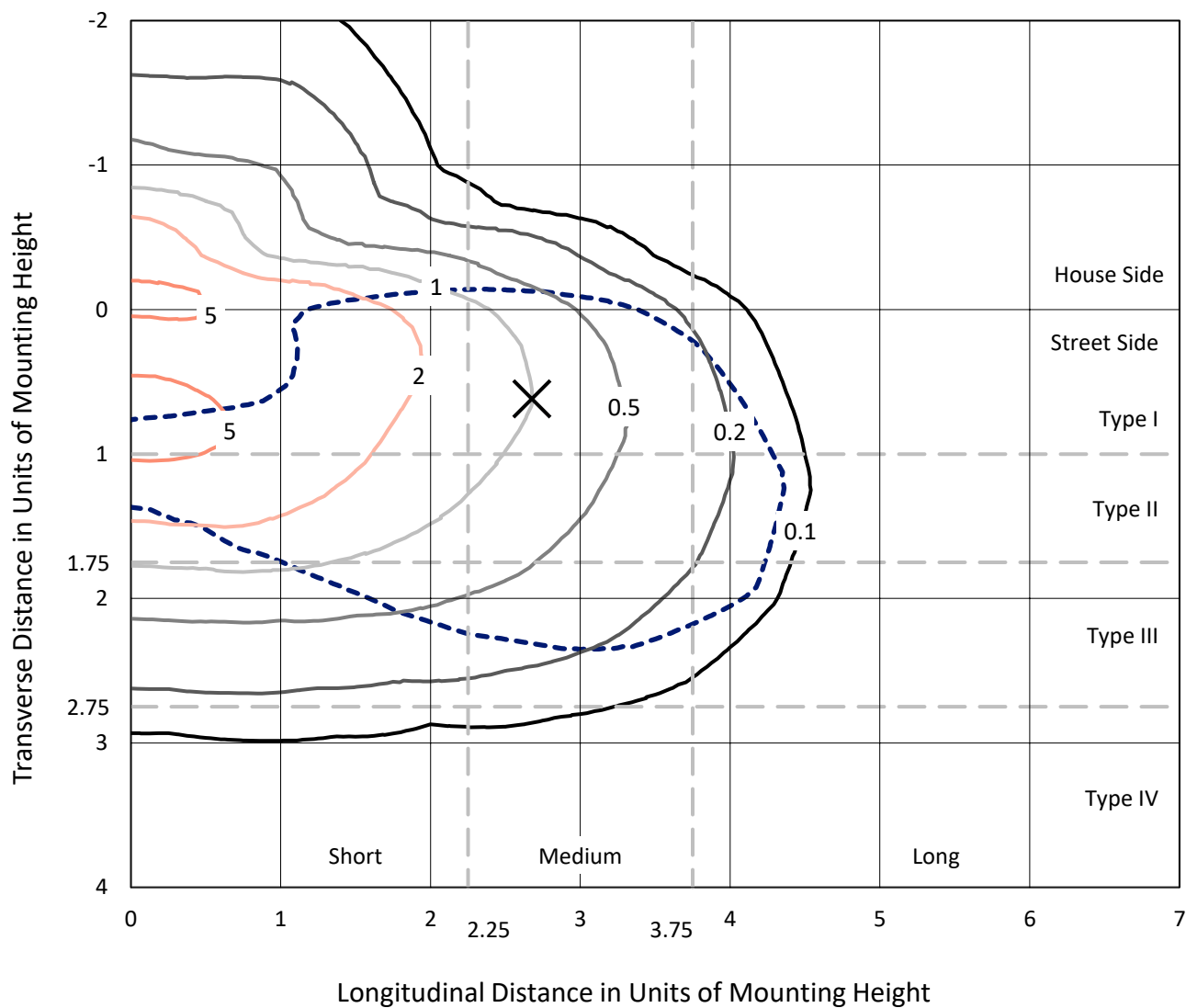
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Iso-Footcandle Lines of Horizontal Illumination

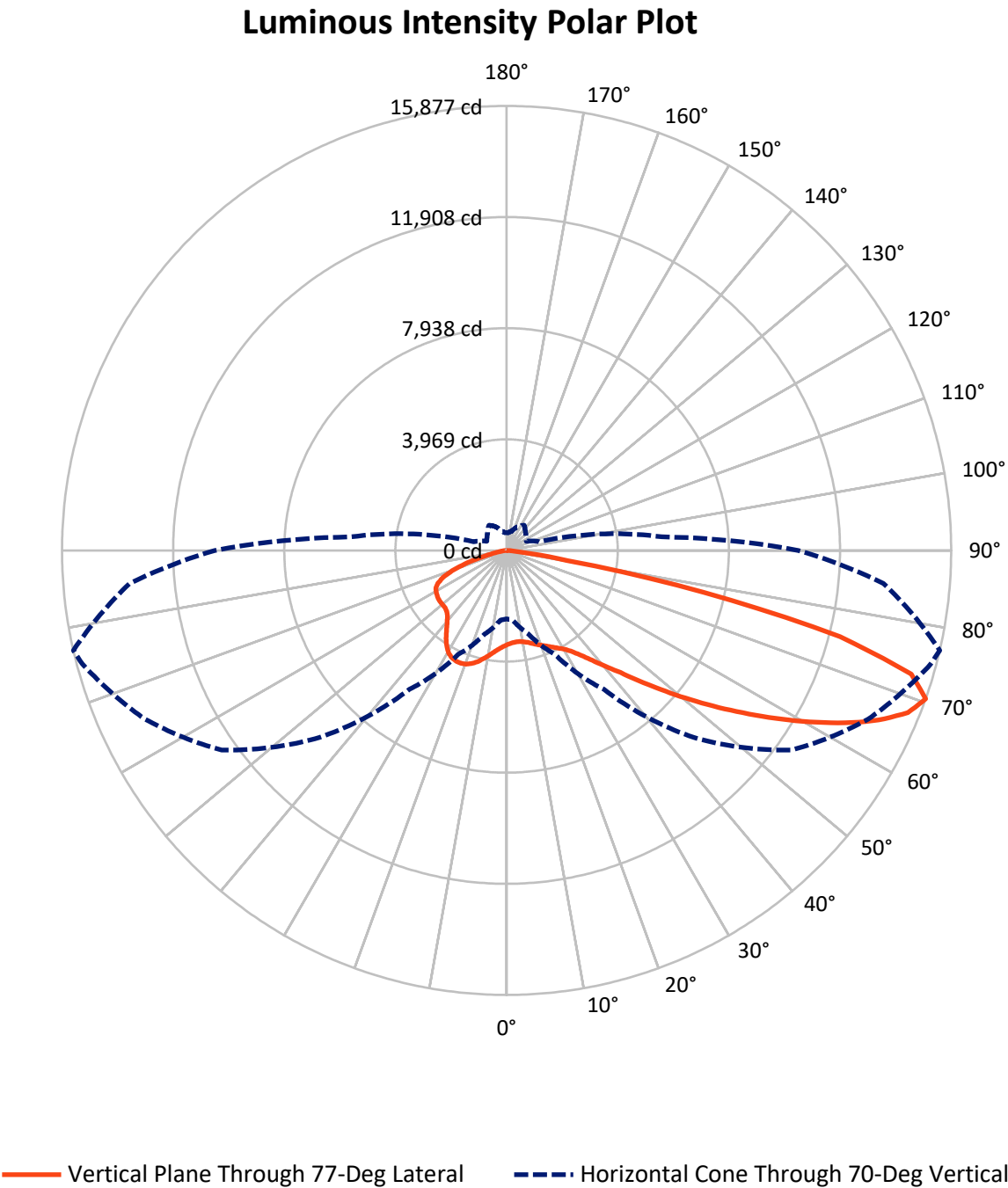
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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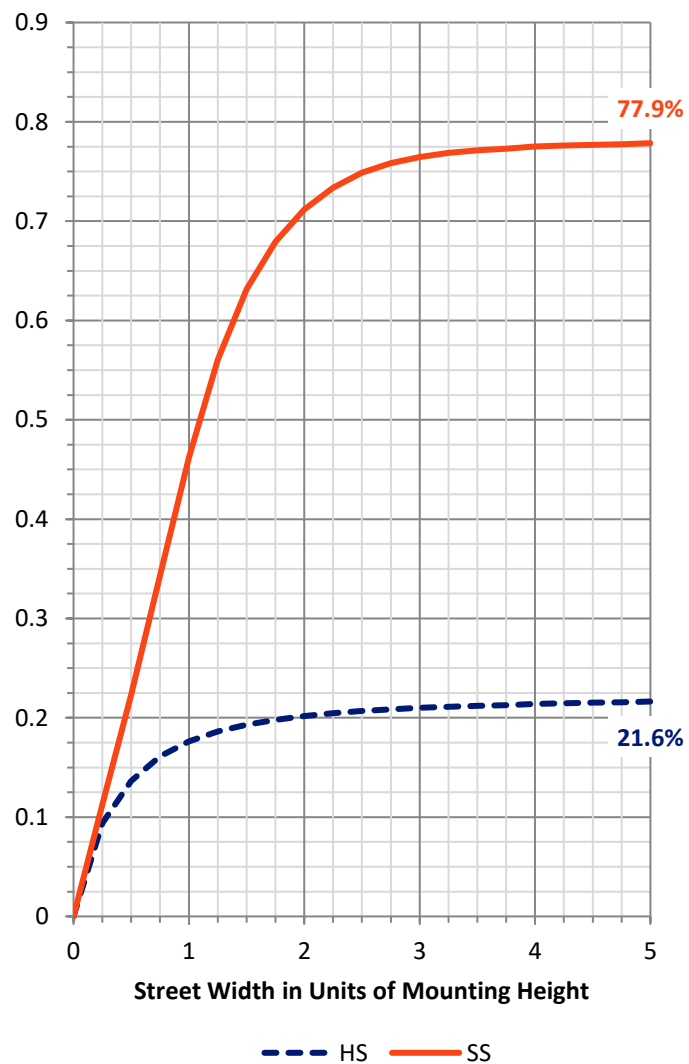
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5282.6	0.0	5282.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	18840.4	0.0	18840.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	24123.0	0.0	24123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.0	1.3
10°-20°	926.3	3.8
20°-30°	1584.2	6.6
30°-40°	2547.5	10.6
40°-50°	3977.3	16.5
50°-60°	5312.8	22.0
60°-70°	5662.6	23.5
70°-80°	3485.9	14.5
80°-90°	305.5	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°	24123.0	100.0
0°-180°	24123.0	100.0

Coefficient of Utilization



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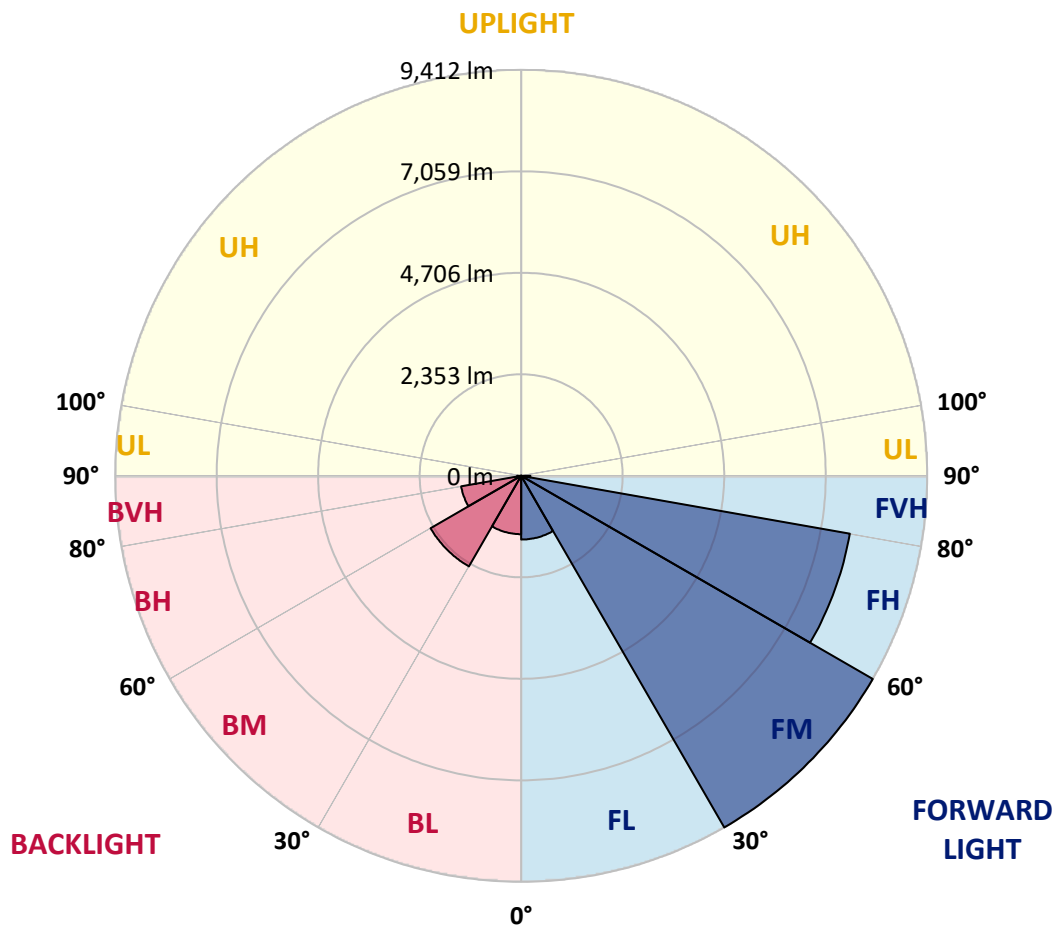
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.9	6.1			
FM	(30°-60°)	9412.3	39.0			
FH	(60°-80°)	7736.6	32.1			G4/12000
FVH	(80°-90°)	213.6	0.9			G2/225
BL	(0°-30°)	1353.6	5.6	B3/2500		
BM	(30°-60°)	2425.3	10.1	B2/2500		
BH	(60°-80°)	1411.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	91.9	0.4			G1/100
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°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3102.2	3101.0	3117.1	3122.0	3151.6	3172.6	3212.2	3254.2	3308.5	3314.7	3348.1
5°	2923.1	2923.1	2941.6	2961.4	2999.7	3041.7	3102.2	3175.1	3269.0	3283.8	3366.6
7.5°	2771.1	2781.0	2797.1	2835.4	2879.8	2940.4	3033.0	3136.8	3260.4	3283.8	3417.3
10°	2648.8	2659.9	2679.7	2710.6	2777.3	2861.3	2982.4	3115.8	3281.4	3318.4	3491.4
12.5°	2610.5	2621.6	2632.8	2656.2	2718.0	2816.8	2961.4	3125.7	3332.0	3369.1	3592.7
15°	2699.5	2713.1	2704.4	2698.2	2730.4	2820.5	2971.3	3161.5	3395.0	3448.2	3717.5
17.5°	2904.6	2909.5	2889.7	2831.7	2826.7	2874.9	3018.2	3210.9	3474.1	3532.2	3843.5
20°	3235.7	3227.0	3186.2	3071.3	3005.9	2996.0	3098.5	3285.1	3555.6	3617.4	3979.4
22.5°	3685.4	3675.5	3593.9	3412.3	3266.5	3170.2	3214.7	3381.4	3647.1	3716.2	4111.6
25°	4246.3	4232.7	4112.8	3865.7	3639.6	3401.2	3372.8	3508.7	3759.5	3823.7	4250.0
27.5°	4901.0	4889.9	4760.2	4434.0	4107.9	3717.5	3569.2	3658.2	3876.9	3949.7	4405.6
30°	5605.3	5637.4	5407.6	5056.7	4644.1	4130.1	3833.6	3842.3	4028.8	4094.3	4594.7
32.5°	6433.0	6488.6	6211.9	5767.1	5203.7	4578.6	4167.2	4099.2	4250.0	4304.3	4833.1
35°	7253.4	7316.4	7086.6	6594.9	5946.2	5107.4	4515.6	4394.5	4544.0	4603.3	5149.4
37.5°	7962.5	8046.5	7927.9	7500.4	6740.6	5744.9	4970.2	4741.7	4906.0	4980.1	5574.4
40°	8522.2	8650.7	8642.0	8375.1	7677.1	6518.3	5547.2	5170.4	5355.7	5436.0	6089.6
42.5°	8976.8	9088.0	9184.4	9170.8	8654.4	7396.7	6225.5	5727.6	5868.4	5961.1	6669.0
45°	9290.6	9409.2	9616.8	9840.4	9594.5	8336.8	7002.6	6388.5	6517.0	6656.6	7359.6
47.5°	9571.1	9705.7	9975.1	10329.6	10392.6	9280.7	7853.8	7158.2	7275.6	7420.1	8052.7
50°	9595.8	9711.9	10129.5	10632.3	10959.7	10187.6	8768.0	8021.8	8131.8	8286.2	8795.2
52.5°	8999.1	9181.9	9910.8	10623.7	11220.4	10946.1	9676.1	8920.0	9043.5	9228.8	9563.7
55°	6985.3	7253.4	9269.6	10292.6	11127.7	11436.6	10539.7	9875.0	10033.1	10227.1	10337.0
57.5°	6016.7	6134.0	7358.4	9689.7	10705.2	11563.9	11268.6	10839.9	11094.4	11306.9	11154.9
60°	5407.6	5505.2	6229.2	8752.0	10149.3	11362.5	11831.9	11739.3	12179.1	12432.4	11991.3
62.5°	4755.3	4847.9	5506.4	7307.7	9437.6	11027.7	12187.8	12569.5	13291.0	13567.8	12779.5
65°	4107.9	4187.0	4818.3	6140.2	8533.3	10692.9	12371.8	13287.3	14320.2	14606.8	13434.3
67.5°	3386.4	3451.9	4048.6	5180.3	7433.7	10234.5	12463.3	13851.9	15215.9	15461.7	13758.0
70°	2443.7	2494.4	3110.9	4096.8	6053.7	9446.3	12426.2	14252.2	15680.4	15876.8	13513.4
72.5°	1155.2	1200.9	1924.8	2659.9	4275.9	7911.9	11676.3	13934.7	15208.4	15110.8	12016.0
75°	616.5	656.0	1105.7	1459.1	2258.4	5423.6	9555.0	12003.7	12770.9	12296.5	8880.4
77.5°	417.6	448.5	684.4	875.9	1031.6	2574.7	6141.4	8310.9	7995.9	7212.6	4447.6
80°	331.1	363.2	560.9	593.0	499.1	930.3	2537.6	3847.2	2763.7	2210.2	1265.1
82.5°	254.5	290.3	471.9	429.9	271.8	381.8	738.8	1216.9	707.9	538.7	306.4
85°	155.7	194.0	370.6	274.3	153.2	174.2	250.8	338.5	216.2	180.4	110.0
87.5°	79.1	111.2	187.8	100.1	69.2	40.8	66.7	66.7	56.8	49.4	28.4
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°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3377.7	3402.4	3444.4	3484.0	3514.9	3544.5	3574.2	3590.2	3595.2	3614.9	3626.1
5°	3417.3	3463.0	3544.5	3621.1	3669.3	3699.0	3720.0	3732.3	3734.8	3741.0	3750.8
7.5°	3490.2	3563.1	3676.7	3753.3	3789.1	3786.7	3778.0	3747.1	3734.8	3723.7	3726.1
10°	3592.7	3689.1	3828.7	3881.8	3859.6	3800.3	3723.7	3633.5	3591.5	3550.7	3538.3
12.5°	3720.0	3842.3	3979.4	3976.9	3867.0	3715.0	3537.1	3398.7	3311.0	3248.0	3233.2
15°	3874.4	4015.2	4120.2	4036.2	3795.3	3522.3	3261.6	3081.2	3002.2	2933.0	2925.6
17.5°	4033.8	4184.5	4232.7	4017.7	3614.9	3236.9	2941.6	2799.5	2721.7	2684.6	2695.8
20°	4189.4	4338.9	4299.4	3911.4	3340.7	2913.2	2650.1	2572.2	2556.2	2564.8	2561.1
22.5°	4353.7	4487.2	4313.0	3706.4	2991.0	2582.1	2437.6	2440.0	2475.9	2501.8	2508.0
25°	4521.8	4612.0	4277.1	3409.9	2615.5	2338.7	2302.9	2342.4	2412.8	2463.5	2477.1
27.5°	4683.6	4723.1	4199.3	3042.9	2293.0	2164.5	2170.7	2252.2	2358.5	2428.9	2446.2
30°	4866.5	4822.0	4049.8	2630.3	2069.4	2015.0	2066.9	2162.0	2268.3	2331.3	2346.1
32.5°	5072.8	4907.2	3812.6	2248.5	1911.2	1895.2	1980.4	2042.2	2089.2	2107.7	2117.6
35°	5329.8	5027.1	3508.7	1980.4	1769.2	1807.5	1889.0	1858.1	1839.6	1829.7	1839.6
37.5°	5663.3	5188.9	3152.9	1806.2	1654.3	1744.5	1777.8	1681.5	1608.6	1572.7	1581.4
40°	6064.8	5426.1	2810.7	1671.6	1581.4	1690.1	1632.0	1515.9	1423.2	1372.6	1376.3
42.5°	6510.8	5674.4	2522.8	1570.3	1540.6	1645.6	1524.6	1386.2	1236.7	1220.6	1236.7
45°	6979.1	5930.2	2326.4	1492.4	1520.8	1607.3	1462.8	1239.2	1132.9	1198.4	1233.0
47.5°	7447.3	6164.9	2207.8	1434.4	1511.0	1564.1	1408.4	1157.6	1082.3	1177.4	1221.9
50°	7968.7	6374.9	2154.6	1392.4	1499.8	1546.8	1326.9	1136.6	1029.1	1092.1	1139.1
52.5°	8486.3	6538.0	2115.1	1350.4	1483.8	1533.2	1287.3	1111.9	964.9	968.6	994.5
55°	9002.8	6644.3	2071.9	1294.8	1448.0	1503.5	1283.6	1084.7	916.7	899.4	911.8
57.5°	9553.8	6704.8	2018.7	1233.0	1386.2	1428.2	1279.9	1063.7	901.9	873.5	877.2
60°	10114.7	6793.8	1949.5	1157.6	1303.4	1338.0	1271.3	1056.3	893.2	845.1	848.8
62.5°	10617.5	6824.7	1866.8	1086.0	1197.2	1249.0	1252.8	1050.1	869.8	787.0	787.0
65°	10947.4	6691.2	1722.2	1004.4	1082.3	1157.6	1216.9	1029.1	827.8	745.0	745.0
67.5°	10933.8	6310.7	1496.1	899.4	971.1	1056.3	1165.0	993.3	777.1	693.1	696.8
70°	10424.8	5559.5	1209.5	777.1	848.8	947.6	1098.3	940.2	716.6	636.3	643.7
72.5°	8941.0	4351.3	878.4	633.8	706.7	835.2	1011.8	875.9	654.8	585.6	581.9
75°	6387.3	2753.8	595.5	486.8	549.8	707.9	904.4	800.6	598.0	588.1	554.7
77.5°	3262.8	1315.8	394.1	355.8	383.0	558.4	759.8	715.3	606.6	485.5	432.4
80°	1061.3	485.5	248.3	242.1	254.5	371.9	588.1	586.8	459.6	329.9	291.6
82.5°	338.5	208.8	161.8	155.7	149.5	233.5	410.2	464.5	310.1	208.8	207.6
85°	134.7	124.8	95.1	87.7	63.0	110.0	215.0	308.9	231.0	150.7	154.4
87.5°	49.4	49.4	25.9	18.5	13.6	37.1	58.1	92.7	132.2	77.8	76.6
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)