

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: P946975

Luminaire Tested: **GALN-SB2C-722-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-722-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

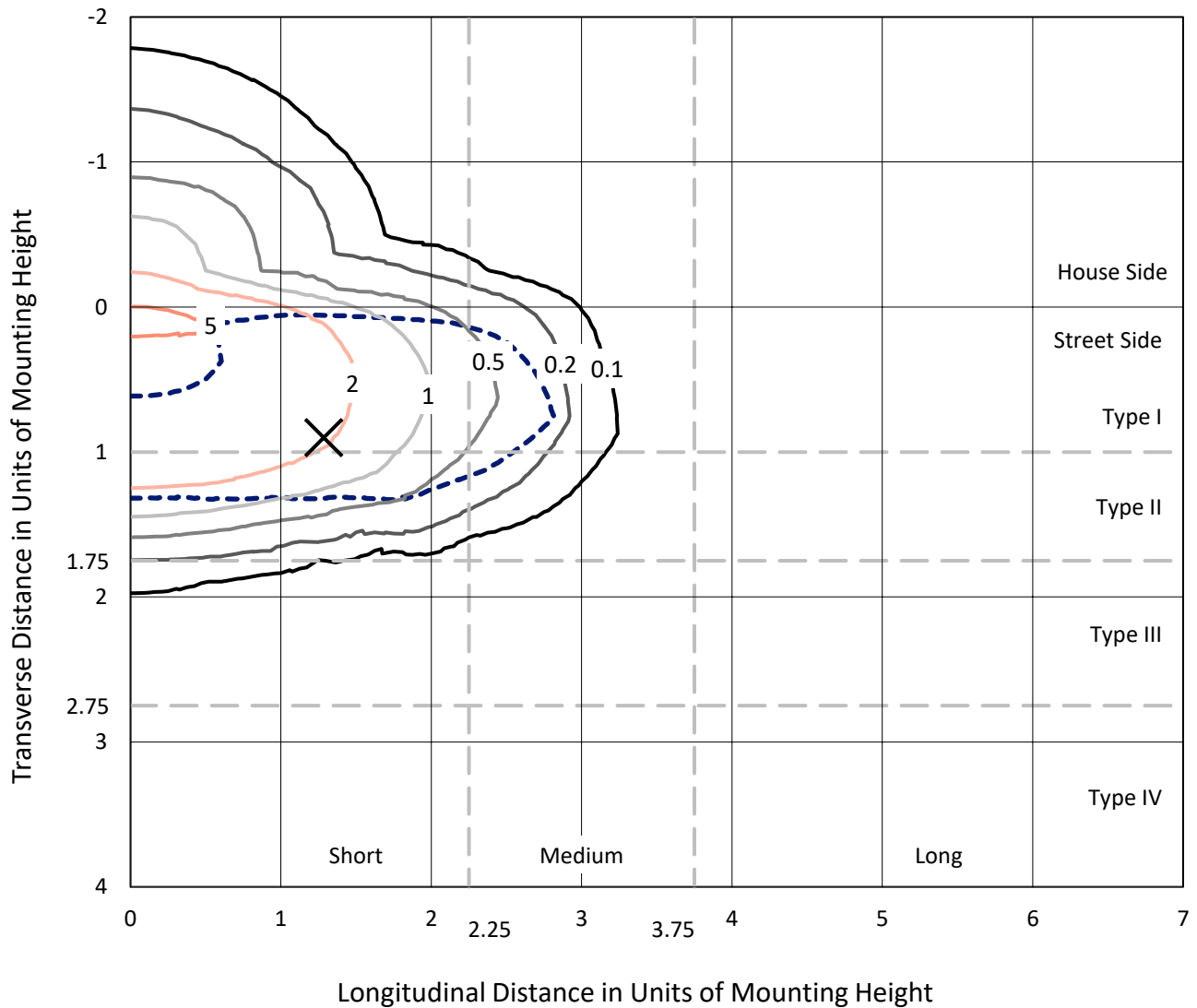
Lumens per Lamp: N/A  
Luminaire Lumens: 12583 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

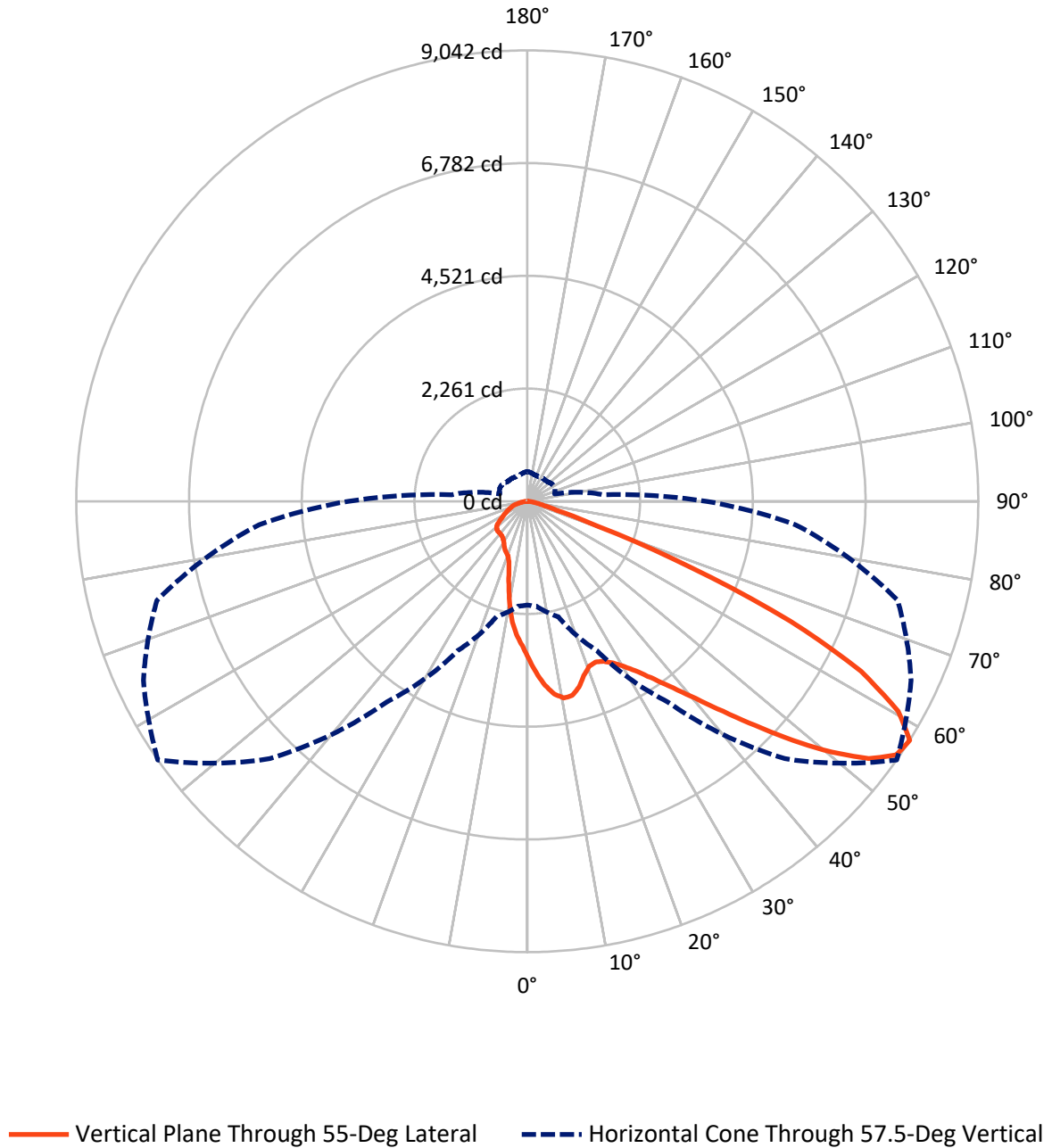
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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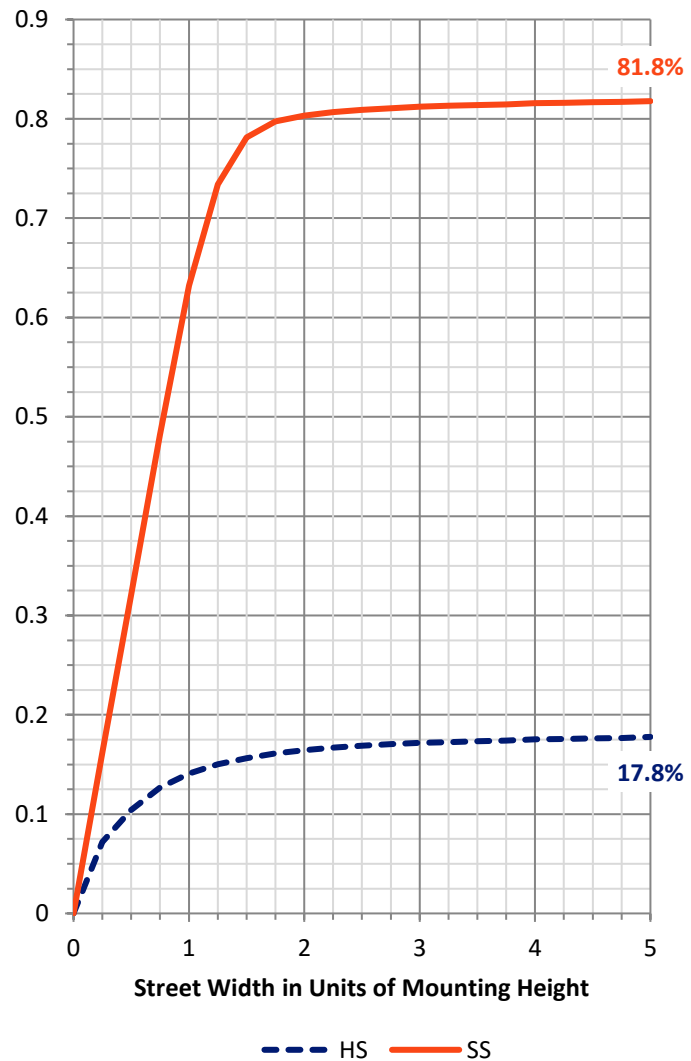
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2276.8	0.0	2276.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	10306.2	0.0	10306.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	12583.0	0.0	12583.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.6	2.3
10°-20°	738.5	5.9
20°-30°	1178.4	9.4
30°-40°	1865.7	14.8
40°-50°	2855.6	22.7
50°-60°	3058.6	24.3
60°-70°	1924.2	15.3
70°-80°	569.0	4.5
80°-90°	100.6	0.8
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°	12583.0	100.0
0°-180°	12583.0	100.0



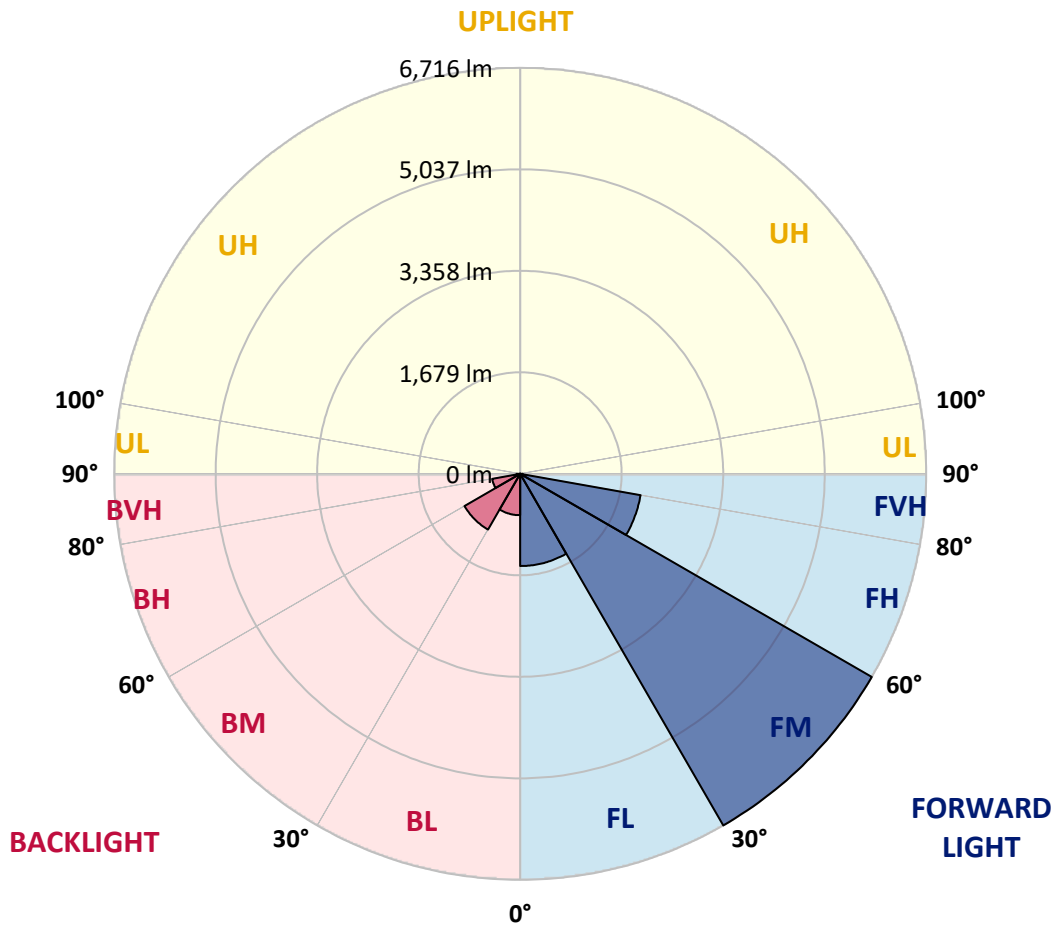
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.1	12.1			
FM (30°-60°)	6715.6	53.4			
FH (60°-80°)	2023.0	16.1			G2/5000
FVH (80°-90°)	42.5	0.3			G1/100
BL (0°-30°)	684.3	5.4	B2/1000		
BM (30°-60°)	1064.2	8.5	B2/2500		
BH (60°-80°)	470.2	3.7	B1/500		G1/500
BVH (80°-90°)	58.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9
2.5°	3617.3	3614.7	3629.0	3580.3	3547.1	3502.2	3443.0	3367.6	3286.2	3200.4	3163.3
5°	3943.2	3920.5	3935.4	3899.0	3862.6	3794.9	3707.1	3584.2	3433.9	3262.8	3171.8
7.5°	3891.8	3876.2	3914.6	3947.1	3974.5	3966.0	3901.6	3772.8	3579.0	3330.5	3198.4
10°	3477.5	3459.9	3513.9	3626.4	3791.7	3935.4	4013.5	3933.5	3727.3	3404.6	3224.4
12.5°	3111.9	3103.5	3139.2	3230.3	3413.7	3689.5	3999.2	4074.0	3881.4	3492.4	3259.6
15°	2955.8	2945.4	2968.2	3014.3	3131.4	3388.4	3869.1	4170.2	4033.0	3593.9	3315.5
17.5°	2921.3	2909.6	2919.4	2943.4	3018.9	3214.7	3672.6	4217.7	4191.1	3707.1	3362.3
20°	2985.1	2975.3	2976.6	2975.3	3028.0	3183.5	3536.0	4199.5	4329.0	3811.2	3407.9
22.5°	3139.2	3123.0	3123.6	3089.1	3117.8	3238.1	3500.2	4150.7	4451.9	3902.2	3442.4
25°	3390.3	3361.0	3366.9	3279.1	3271.3	3360.4	3556.2	4113.0	4574.2	3975.1	3448.9
27.5°	3733.8	3700.6	3683.0	3552.3	3489.8	3534.1	3670.0	4126.0	4690.0	4038.2	3432.6
30°	4163.1	4122.8	4087.0	3901.6	3788.4	3772.2	3847.0	4211.9	4826.6	4104.5	3404.6
32.5°	4689.3	4642.5	4577.4	4331.6	4172.2	4087.0	4075.9	4364.7	4986.6	4189.1	3390.3
35°	5315.7	5254.6	5162.2	4844.1	4642.5	4468.2	4377.8	4585.3	5205.8	4316.6	3406.6
37.5°	5961.0	5892.1	5807.5	5428.9	5181.1	4924.2	4745.9	4884.5	5497.9	4489.6	3449.5
40°	6556.2	6478.8	6400.1	6063.2	5797.1	5487.5	5196.7	5263.1	5855.0	4696.5	3522.4
42.5°	6907.5	6850.2	6820.3	6638.2	6432.6	6118.4	5757.4	5711.9	6256.3	4934.6	3605.6
45°	6891.9	6868.5	6960.8	7036.3	6987.5	6813.2	6414.4	6208.2	6659.0	5140.8	3682.4
47.5°	6523.7	6539.3	6745.5	7169.6	7356.3	7447.4	7162.5	6695.4	7009.0	5294.9	3716.9
50°	5522.0	5535.0	6012.4	6927.0	7451.3	7964.5	7904.7	7170.9	7280.2	5389.3	3709.1
52.5°	4729.0	4737.5	4942.4	6207.6	7137.8	8224.7	8573.4	7619.1	7478.6	5415.3	3665.5
55°	3562.0	3591.3	3820.9	4870.2	6322.0	8018.5	8980.6	8081.0	7604.1	5417.9	3619.9
57.5°	2080.9	2112.8	2396.4	3305.8	4913.7	7299.7	9042.4	8490.8	7689.4	5397.1	3592.6
60°	1019.3	1033.0	1156.6	1737.4	3030.0	5914.8	8545.4	8689.2	7736.8	5386.0	3591.3
62.5°	686.9	685.0	690.2	857.3	1492.9	3800.1	7509.8	8341.8	7711.5	5343.7	3578.3
65°	590.6	583.5	564.0	601.7	773.4	1738.1	5802.3	7304.9	7518.3	5237.7	3489.2
67.5°	510.6	511.3	511.9	500.2	552.3	802.0	3545.8	5754.2	6824.9	4735.5	3145.7
70°	422.8	428.7	431.3	431.3	450.1	526.2	1513.7	3943.9	5383.4	3713.0	2533.6
72.5°	385.1	372.7	374.0	367.5	367.5	400.7	609.5	2235.7	3391.6	2088.7	1546.2
75°	314.2	322.0	323.3	318.7	303.8	305.7	361.7	938.0	1451.2	866.4	764.3
77.5°	271.3	271.3	273.9	270.6	258.9	229.0	241.3	363.6	493.7	355.2	381.8
80°	217.9	217.3	228.3	234.8	216.6	169.1	154.2	201.0	219.2	156.1	198.4
82.5°	106.0	112.5	156.8	178.9	164.6	122.3	94.3	124.9	117.1	69.0	89.1
85°	61.8	58.5	70.3	99.5	94.3	67.7	45.5	65.0	61.1	35.1	35.8
87.5°	19.5	18.2	14.3	33.8	27.3	18.9	12.4	18.9	16.9	7.8	7.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9	3152.9
2.5°	3117.1	3040.4	2964.3	2894.6	2852.4	2825.0	2797.7	2767.2	2755.4	2737.9
5°	3085.9	2937.6	2805.5	2691.7	2588.3	2507.0	2425.0	2358.7	2328.7	2348.9
7.5°	3067.7	2853.0	2649.4	2440.6	2239.6	2078.9	1939.1	1840.9	1796.6	1807.7
10°	3051.4	2757.4	2447.1	2117.3	1828.5	1629.5	1486.4	1411.5	1383.6	1389.4
12.5°	3036.5	2650.1	2203.2	1769.3	1462.3	1330.9	1289.9	1290.6	1295.8	1299.7
15°	3033.9	2520.6	1930.6	1464.9	1264.5	1256.1	1300.3	1328.3	1343.2	1347.8
17.5°	3030.0	2365.8	1652.9	1257.4	1216.4	1273.6	1314.6	1332.8	1344.5	1345.2
20°	3014.3	2169.4	1396.6	1158.5	1206.0	1255.4	1280.8	1295.1	1304.9	1308.1
22.5°	2966.2	1950.8	1196.9	1114.3	1164.4	1204.0	1234.0	1250.2	1256.1	1260.0
25°	2879.7	1706.2	1059.0	1072.0	1106.5	1156.6	1180.6	1183.9	1181.9	1187.8
27.5°	2766.5	1444.1	973.1	1014.8	1059.0	1101.9	1114.9	1113.0	1109.1	1115.6
30°	2629.9	1208.6	918.5	950.4	1010.9	1049.9	1061.6	1057.0	1049.2	1056.4
32.5°	2485.5	1016.1	873.6	905.5	971.2	1009.5	1021.3	1016.7	1010.9	1016.7
35°	2350.8	881.4	832.0	875.6	939.9	977.7	992.6	993.3	993.3	1000.4
37.5°	2227.3	802.7	797.5	856.7	918.5	952.3	973.8	975.1	947.1	949.1
40°	2112.8	769.5	781.9	844.3	897.7	930.2	931.5	858.6	807.2	805.9
42.5°	2019.1	763.0	786.4	843.0	882.7	884.0	792.3	735.7	721.4	722.0
45°	1931.3	761.1	796.8	843.0	860.6	763.7	701.9	686.9	688.2	693.4
47.5°	1833.1	753.3	798.8	831.3	796.8	679.1	660.9	654.4	651.8	653.1
50°	1725.7	725.3	774.1	807.9	687.6	642.7	619.9	618.0	621.2	623.2
52.5°	1612.5	679.8	731.8	765.6	637.5	610.8	585.4	590.0	604.3	608.9
55°	1538.4	626.4	675.9	681.1	602.3	580.9	559.4	569.8	596.5	604.9
57.5°	1518.9	569.8	612.1	606.3	557.5	554.9	541.9	551.0	584.8	597.1
60°	1513.0	519.1	549.7	545.1	513.9	526.2	523.0	527.5	539.3	543.2
62.5°	1467.5	478.8	493.7	487.2	474.9	496.3	504.1	494.4	503.5	508.0
65°	1351.7	446.2	439.1	434.5	439.7	459.2	474.9	455.3	463.8	476.8
67.5°	1160.5	402.0	382.5	387.7	403.9	414.4	434.5	412.4	419.6	441.7
70°	938.6	346.1	328.5	343.5	359.1	380.5	383.8	368.8	385.7	410.5
72.5°	664.1	289.5	277.1	307.7	312.9	340.9	333.7	326.5	350.0	358.4
75°	460.5	233.5	226.4	249.8	268.6	292.7	287.5	296.0	345.4	349.3
77.5°	291.4	181.5	176.9	191.9	217.9	244.6	253.0	349.3	590.0	613.4
80°	169.1	135.3	130.1	141.8	164.6	189.3	243.9	428.7	389.0	384.4
82.5°	94.3	93.0	86.5	89.8	109.9	136.6	344.8	301.8	245.2	253.0
85°	44.2	54.6	46.8	44.9	61.8	160.0	230.3	172.4	114.5	111.9
87.5°	11.7	10.4	10.4	11.7	26.0	137.9	91.7	73.5	43.6	42.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)