

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: P945915

Luminaire Tested: **GALN-SB1D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8565 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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



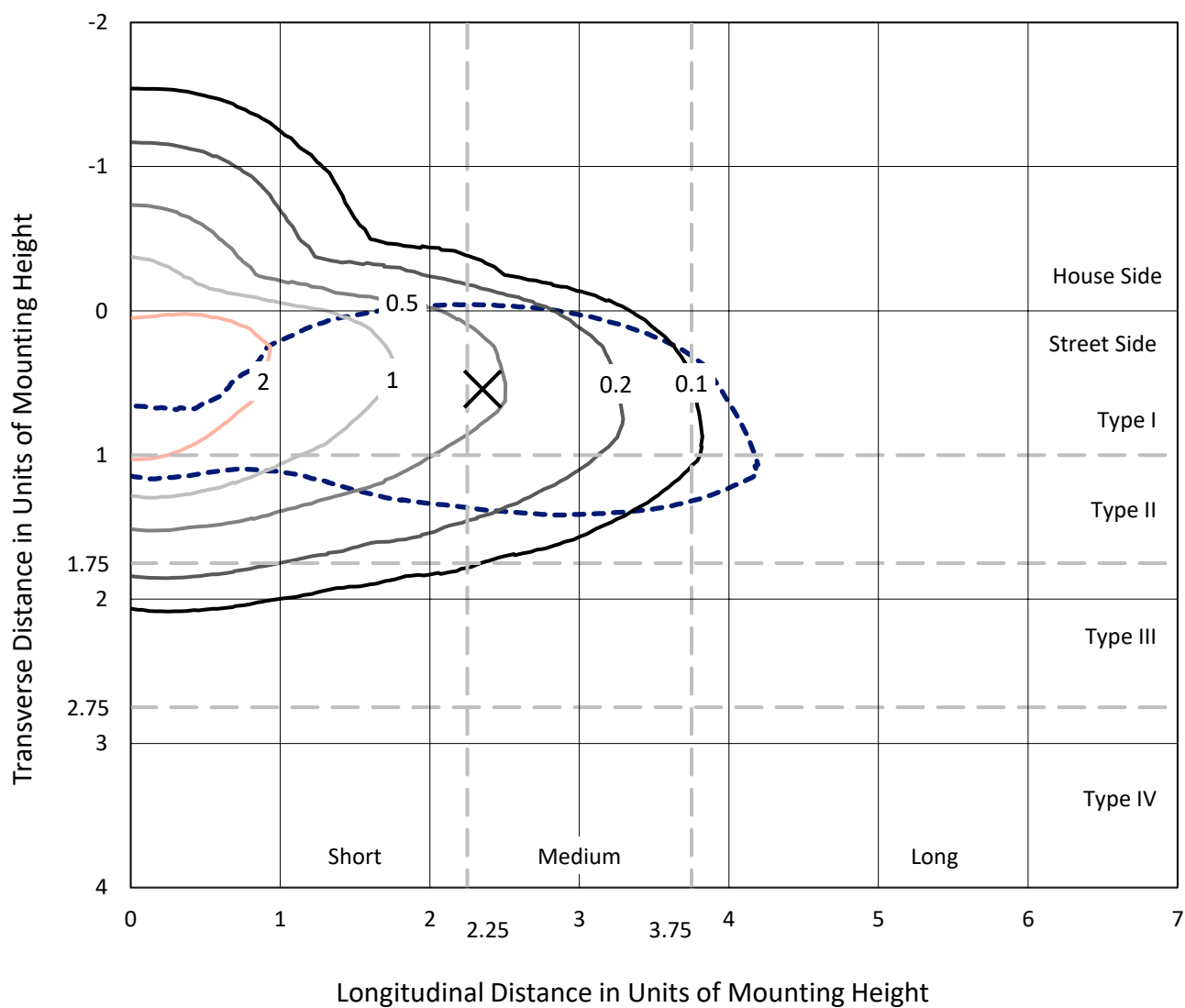
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Iso-Footcandle Lines of Horizontal Illumination

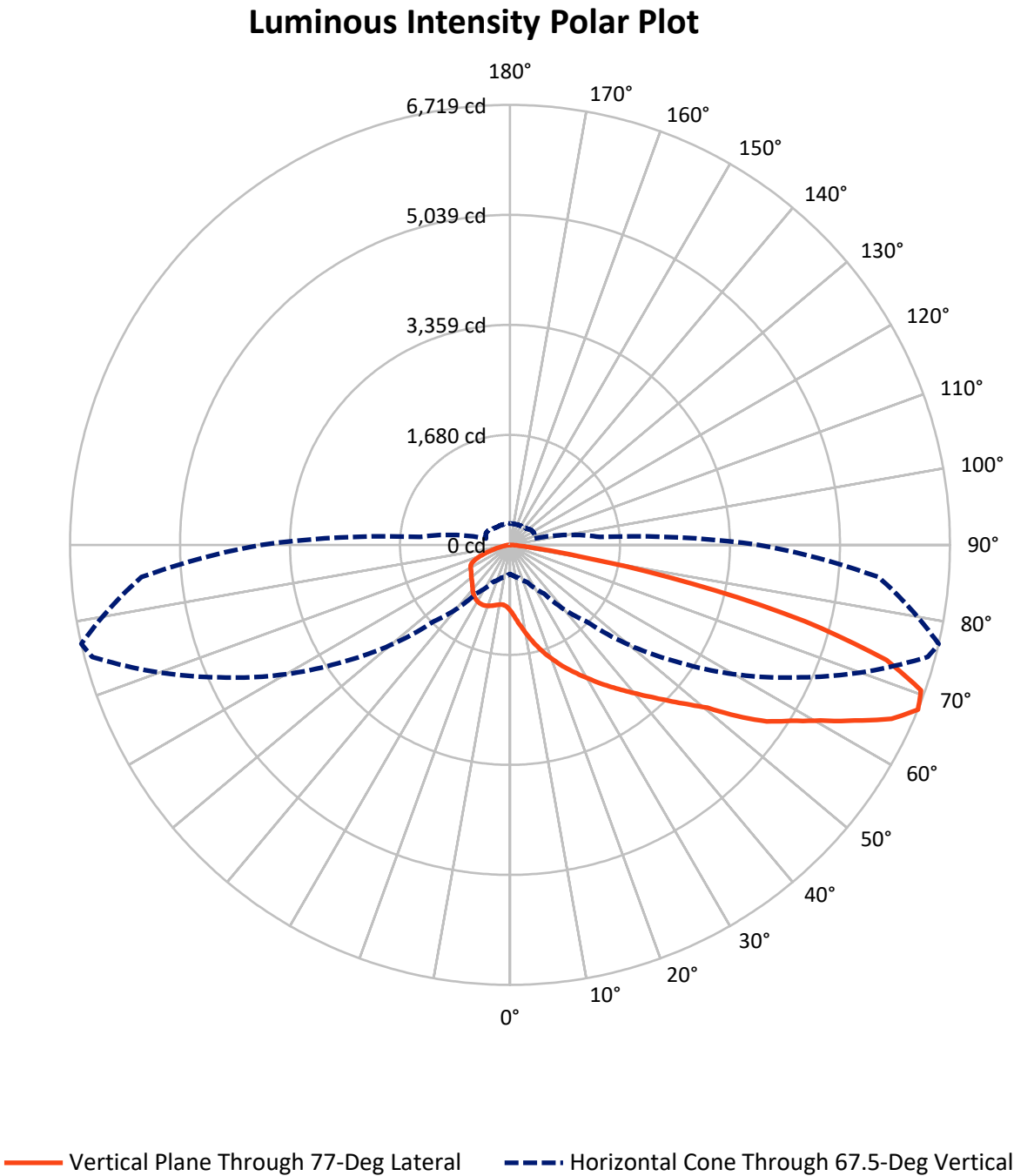
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Medium - N/A

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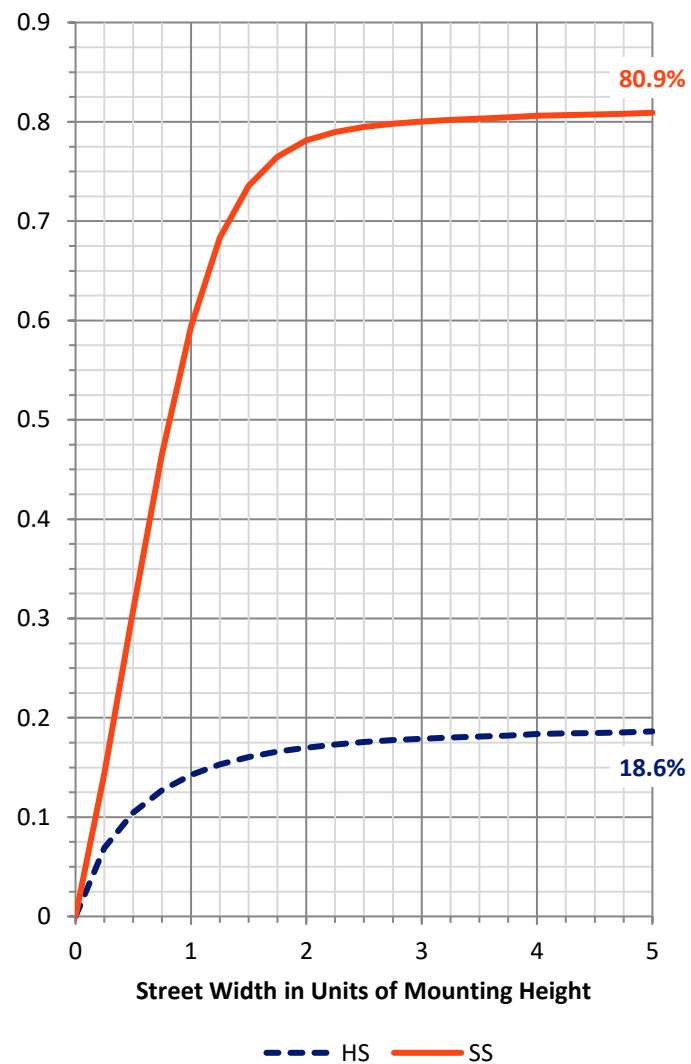
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1620.1	0.0	1620.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6944.8	0.0	6944.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	8565.0	0.0	8565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.3
10°-20°	387.0	4.5
20°-30°	730.7	8.5
30°-40°	1177.1	13.7
40°-50°	1610.0	18.8
50°-60°	1816.1	21.2
60°-70°	1695.1	19.8
70°-80°	929.2	10.8
80°-90°	112.1	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°	8565.0	100.0
0°-180°	8565.0	100.0

Coefficient of Utilization



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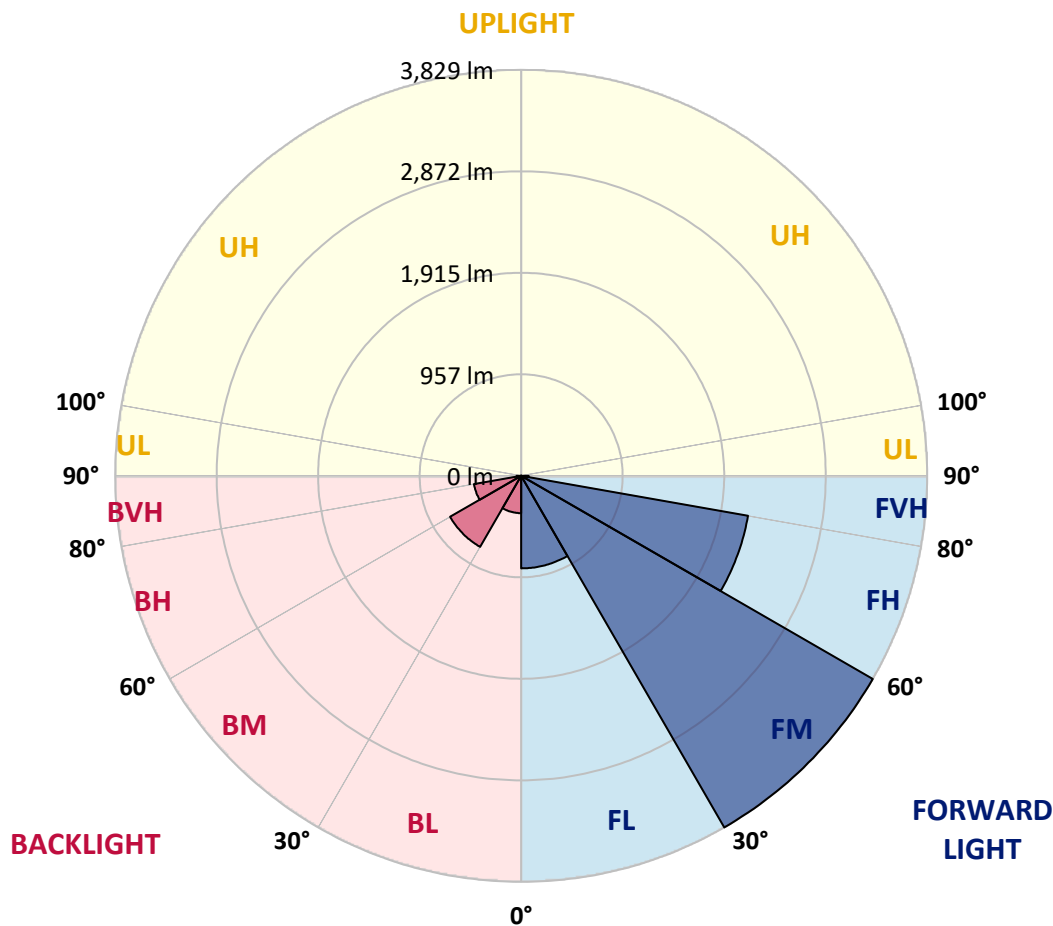
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	873.1	10.2			
FM	(30°-60°)	3829.3	44.7			
FH	(60°-80°)	2172.3	25.4			G2/5000
FVH	(80°-90°)	70.1	0.8			G1/100
BL	(0°-30°)	352.3	4.1	B1/500		
BM	(30°-60°)	773.9	9.0	B1/1000		
BH	(60°-80°)	452.0	5.3	B1/500		G1/500
BVH	(80°-90°)	42.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9
2.5°	1258.3	1267.1	1256.1	1256.1	1218.9	1199.5	1162.3	1134.0	1083.2	1074.4	1040.8
5°	1487.3	1498.3	1482.9	1476.2	1432.5	1392.2	1329.9	1268.4	1177.8	1168.5	1089.4
7.5°	1664.6	1678.7	1665.0	1658.0	1619.0	1574.0	1501.0	1415.2	1287.5	1269.3	1154.8
10°	1809.2	1811.4	1806.9	1809.6	1779.1	1742.0	1667.2	1567.3	1407.7	1383.0	1234.0
12.5°	1891.0	1901.1	1910.0	1925.9	1920.6	1897.6	1830.4	1711.0	1535.0	1503.2	1320.2
15°	1929.4	1947.1	1967.0	2003.7	2033.3	2039.1	1987.8	1865.3	1664.6	1626.1	1407.3
17.5°	1943.1	1959.9	1991.3	2044.4	2108.0	2150.9	2127.9	2015.2	1792.8	1748.6	1498.8
20°	2012.5	2017.4	2036.4	2086.8	2155.8	2227.0	2244.2	2159.3	1919.7	1869.7	1593.4
22.5°	2161.1	2151.4	2156.7	2179.7	2229.2	2298.1	2337.5	2286.6	2050.1	1992.6	1688.9
25°	2406.5	2378.2	2349.9	2323.3	2348.5	2387.5	2432.1	2414.0	2186.7	2113.8	1785.3
27.5°	2716.4	2681.9	2619.6	2532.5	2502.0	2515.7	2535.6	2532.0	2313.2	2239.3	1884.8
30°	3021.5	2981.2	2906.9	2780.9	2700.5	2664.2	2649.2	2639.0	2450.7	2372.0	1985.1
32.5°	3265.1	3233.2	3160.3	3019.2	2902.5	2840.6	2790.7	2754.4	2594.4	2515.7	2091.2
35°	3478.2	3448.5	3365.0	3211.1	3084.2	3018.4	2952.9	2875.6	2743.8	2664.2	2205.3
37.5°	3672.7	3643.1	3528.6	3368.5	3240.7	3195.2	3136.8	3005.5	2893.7	2818.5	2326.0
40°	3795.6	3789.0	3682.0	3500.7	3368.1	3345.5	3326.1	3156.3	3059.9	2990.1	2458.6
42.5°	3827.0	3841.6	3756.7	3607.7	3481.3	3463.1	3508.7	3327.0	3246.5	3179.7	2609.0
45°	3751.4	3793.4	3737.7	3636.4	3561.7	3552.0	3670.5	3513.5	3453.0	3392.0	2790.2
47.5°	3560.0	3631.1	3608.1	3594.0	3583.4	3625.4	3812.8	3711.6	3686.8	3633.8	2997.1
50°	3173.5	3308.4	3348.6	3437.9	3540.5	3682.4	3942.4	3927.8	3960.1	3906.6	3249.1
52.5°	2505.5	2691.2	2924.6	3148.3	3408.8	3663.4	4084.8	4238.2	4374.3	4345.2	3649.7
55°	2068.2	2151.8	2331.3	2741.6	3153.2	3583.4	4148.9	4488.9	4785.5	4759.4	3953.4
57.5°	1732.2	1806.9	1917.5	2260.1	2766.8	3401.7	4188.7	4641.8	5067.1	5064.5	4253.2
60°	1371.9	1451.0	1564.2	1806.9	2315.4	3087.8	4179.8	4816.0	5426.6	5448.7	4618.8
62.5°	965.1	1052.2	1177.8	1404.2	1854.3	2681.0	3999.4	4942.0	5849.7	5909.8	5058.7
65°	634.4	691.9	786.5	982.0	1381.6	2158.0	3655.0	4958.4	6302.4	6404.1	5471.7
67.5°	444.8	466.9	522.6	628.7	910.8	1654.9	3106.3	4789.1	6604.4	6718.9	5650.7
70°	347.1	358.1	386.4	428.9	572.1	1112.8	2380.4	4348.7	6539.9	6659.2	5463.7
72.5°	299.8	310.4	321.0	326.3	383.8	687.1	1612.4	3636.0	5931.9	6012.8	4750.6
75°	271.9	274.6	283.4	281.6	292.7	445.7	930.7	2649.2	4680.3	4652.4	3506.9
77.5°	228.6	232.1	246.7	244.5	260.0	304.6	483.2	1709.7	3034.3	2845.0	1952.0
80°	193.6	195.4	211.3	208.7	225.9	220.6	246.7	871.4	1287.0	1090.3	562.8
82.5°	67.2	83.1	161.4	166.2	172.4	133.5	142.4	355.5	393.0	301.1	118.0
85°	32.7	34.9	82.2	116.7	116.3	67.2	69.4	126.9	123.8	97.3	39.3
87.5°	5.3	6.6	9.7	45.5	36.3	17.7	23.9	24.8	25.6	22.1	8.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9	1004.9
2.5°	1016.0	993.9	947.5	904.6	871.0	838.7	820.6	805.1	796.3	794.5	794.5
5°	1043.4	997.9	913.4	842.2	795.8	761.3	743.2	731.7	726.0	722.4	722.0
7.5°	1082.8	1016.0	895.7	814.8	766.2	741.4	732.2	730.4	729.9	730.4	731.7
10°	1137.1	1045.6	894.0	808.2	767.5	753.8	753.4	753.8	755.6	756.0	756.5
12.5°	1195.9	1076.1	901.0	813.9	784.3	776.8	775.5	775.0	776.4	777.2	777.7
15°	1260.0	1116.4	913.0	826.3	802.9	794.9	793.6	791.0	790.5	790.1	789.6
17.5°	1325.9	1156.1	926.2	839.6	814.8	803.8	798.9	792.7	787.9	786.5	787.9
20°	1392.7	1195.5	935.5	846.2	815.7	800.2	790.5	779.9	771.5	766.6	768.4
22.5°	1463.9	1236.6	941.3	844.5	807.8	786.5	768.8	756.5	743.6	735.2	735.7
25°	1533.3	1272.4	940.8	835.2	792.3	765.3	742.8	726.8	709.2	700.3	700.3
27.5°	1600.0	1304.7	929.8	818.8	770.2	740.1	713.1	694.1	676.9	668.5	668.0
30°	1669.0	1331.7	912.5	794.9	744.1	710.9	681.3	664.9	649.5	641.5	641.1
32.5°	1737.5	1356.4	888.2	765.3	714.0	682.2	653.0	638.0	628.7	628.7	629.1
35°	1810.0	1373.7	855.9	730.8	682.2	651.7	628.7	619.9	619.0	613.7	612.3
37.5°	1886.5	1384.7	816.6	695.5	650.8	622.1	615.0	604.4	595.5	584.0	582.3
40°	1967.0	1395.8	769.3	658.8	617.6	601.7	598.6	584.5	559.3	531.0	527.0
42.5°	2064.7	1403.3	720.2	622.1	582.7	577.4	581.8	557.5	517.3	496.1	496.5
45°	2177.9	1415.7	675.1	585.8	546.9	546.9	565.5	533.6	500.5	487.2	489.4
47.5°	2324.7	1444.4	633.1	546.0	513.7	522.6	529.2	504.9	486.3	470.0	469.5
50°	2536.9	1513.4	589.8	505.8	488.5	506.2	496.9	482.8	461.1	447.9	446.5
52.5°	2800.4	1554.1	551.3	469.5	466.9	484.6	471.3	458.0	441.7	424.0	420.5
55°	2979.9	1561.6	519.0	443.0	452.3	450.5	445.7	433.7	424.9	401.4	401.9
57.5°	3180.6	1576.6	492.5	427.1	443.0	423.6	421.8	411.6	400.1	384.2	378.9
60°	3420.7	1600.0	469.5	420.9	435.0	405.9	397.0	393.0	381.6	373.6	375.8
62.5°	3682.4	1621.3	446.1	421.8	425.8	388.6	375.4	374.0	367.0	364.3	364.3
65°	3861.0	1563.3	416.9	420.9	411.2	370.9	354.1	353.7	347.9	347.1	346.6
67.5°	3798.7	1379.9	377.6	408.5	396.1	353.3	334.7	332.9	325.4	325.8	325.8
70°	3486.6	1118.1	323.2	378.0	377.6	337.3	314.3	308.6	298.4	300.2	302.0
72.5°	2901.2	828.5	250.2	327.2	347.9	322.7	290.9	281.6	268.8	270.6	270.1
75°	2095.2	563.3	182.2	248.9	302.9	305.5	267.9	252.0	236.5	239.2	240.1
77.5°	1072.1	319.2	134.0	171.5	237.9	277.7	247.1	225.9	222.4	247.1	243.6
80°	349.7	160.0	92.8	120.3	156.1	227.3	216.6	192.3	191.4	197.2	169.3
82.5°	104.3	67.6	59.7	79.1	86.2	174.2	187.0	145.5	125.1	131.8	136.2
85°	35.8	32.7	34.0	39.3	41.1	102.1	130.9	96.4	91.1	100.4	99.0
87.5°	8.4	11.5	9.7	8.8	8.8	24.8	50.8	40.2	55.7	37.1	35.8
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)