

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: P939915

Luminaire Tested: **GALN-SB2D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939915
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-SB2D-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18703 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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

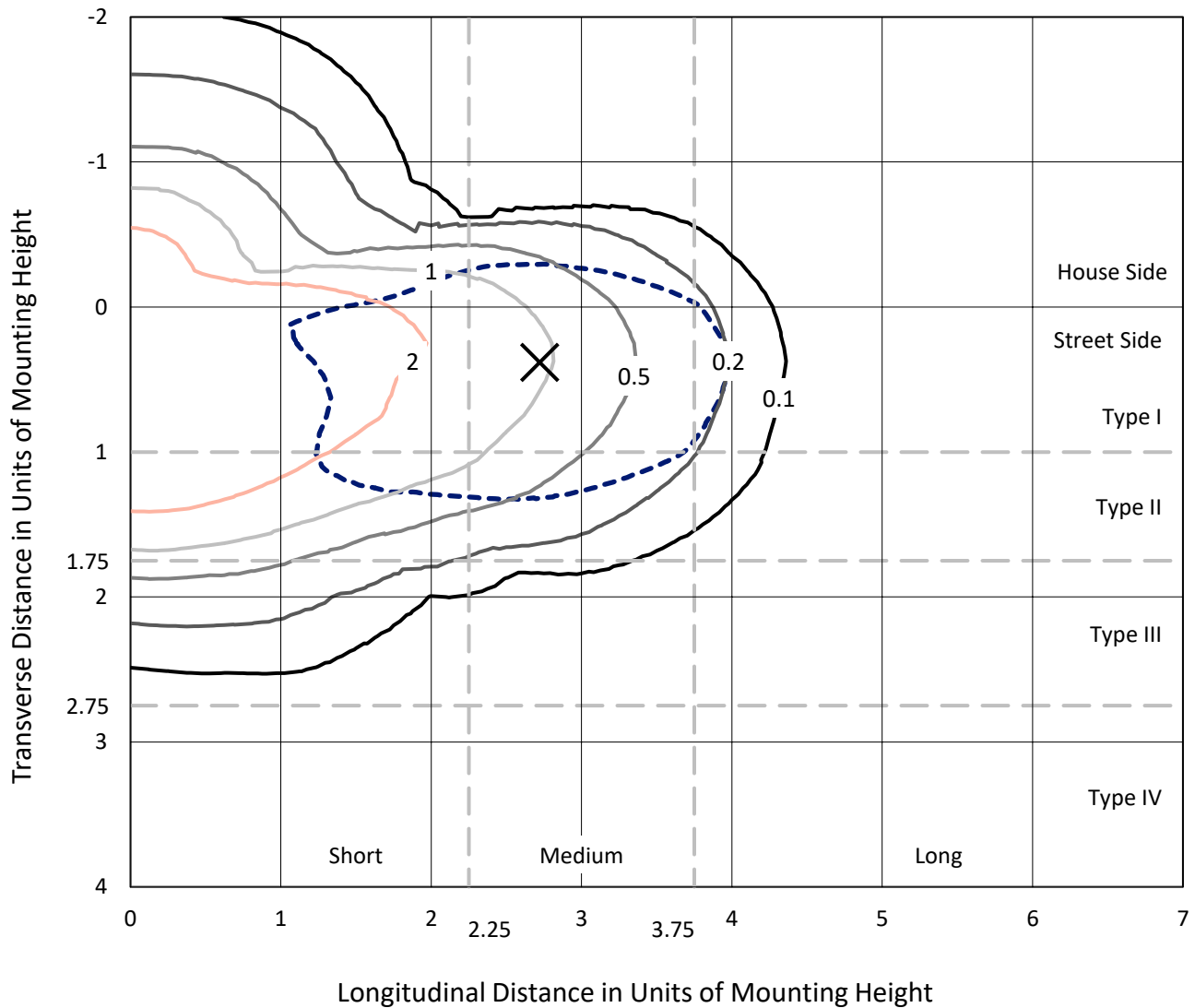


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

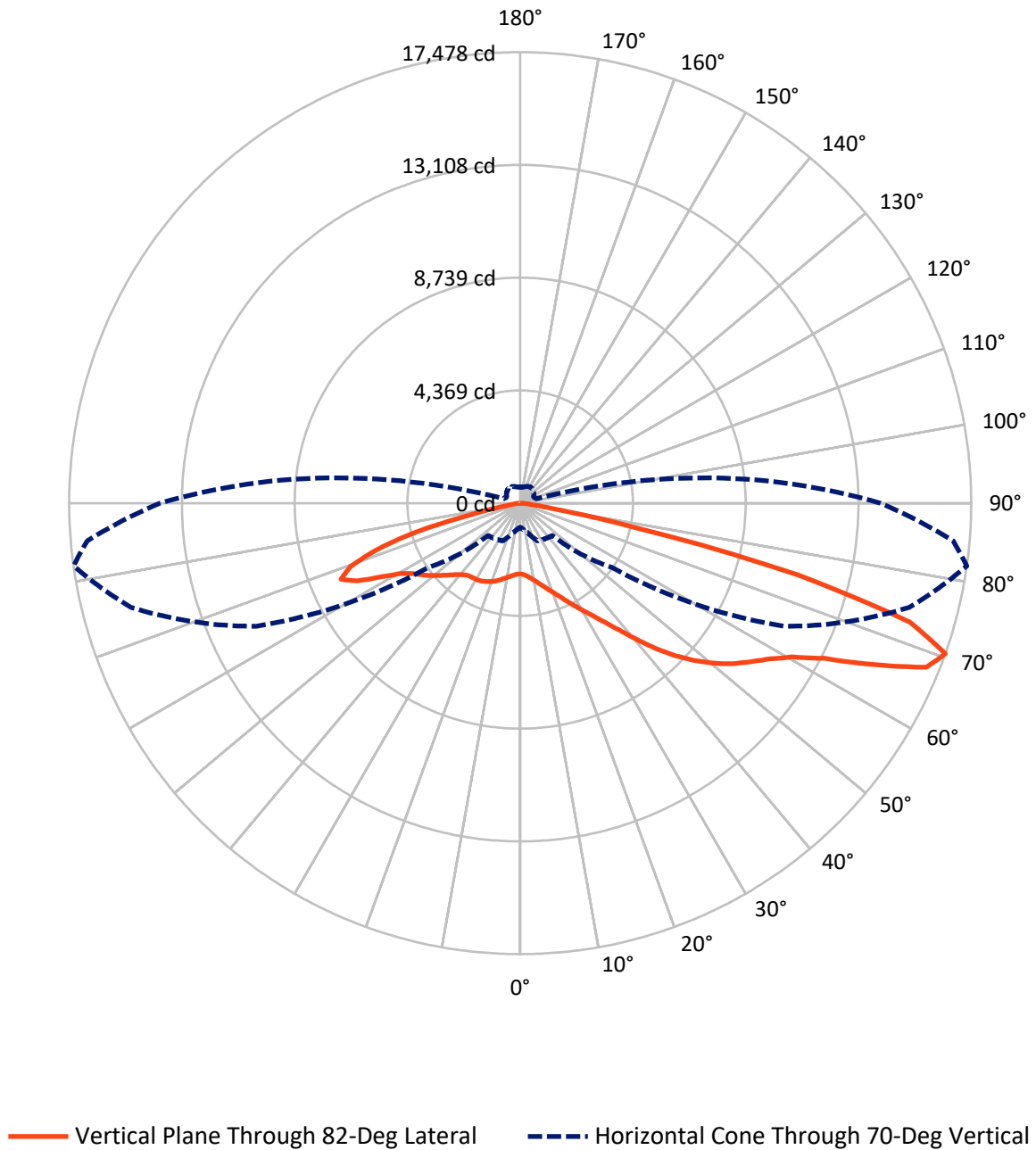


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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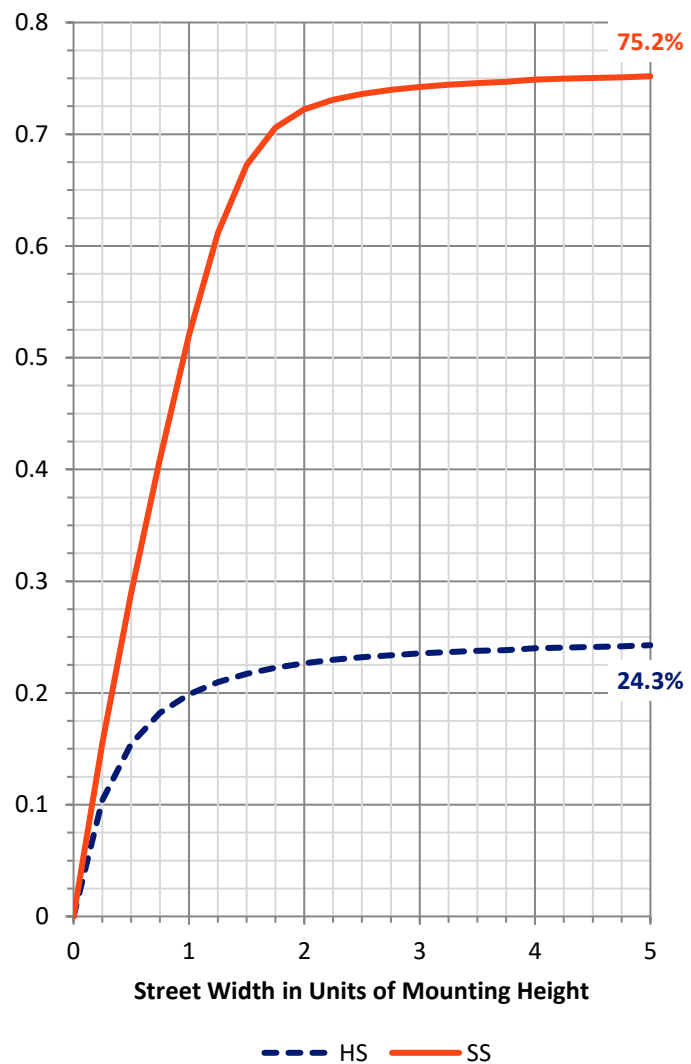
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4610.8	0.0	4610.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	14092.3	0.0	14092.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	18703.0	0.0	18703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	1.4
10°-20°	743.8	4.0
20°-30°	1244.4	6.7
30°-40°	1944.0	10.4
40°-50°	3096.1	16.6
50°-60°	4308.6	23.0
60°-70°	4507.0	24.1
70°-80°	2355.6	12.6
80°-90°	244.6	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°	18703.0	100.0
0°-180°	18703.0	100.0

Coefficient of Utilization



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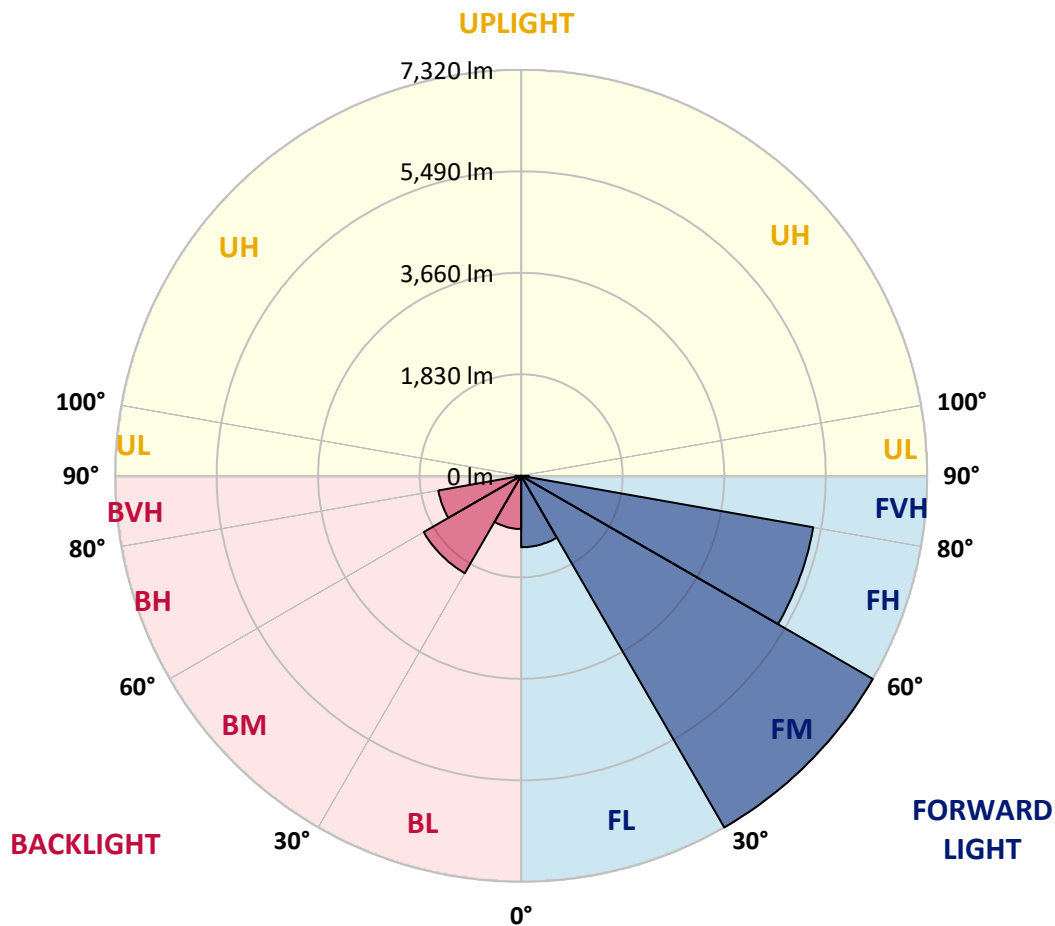
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1287.9	6.9			
FM	(30°-60°)	7320.2	39.1			
FH	(60°-80°)	5347.2	28.6			G3/7500
FVH	(80°-90°)	136.9	0.7			G2/225
BL	(0°-30°)	959.2	5.1	B2/1000		
BM	(30°-60°)	2028.5	10.8	B2/2500		
BH	(60°-80°)	1515.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	107.7	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°	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1
2.5°	2807.6	2823.5	2818.5	2813.5	2813.5	2806.6	2805.6	2795.7	2787.7	2774.8	2771.9
5°	2843.3	2860.2	2858.2	2862.2	2875.1	2878.1	2881.0	2875.1	2859.2	2843.3	2836.4
7.5°	2811.6	2830.4	2836.4	2860.2	2899.9	2935.6	2962.4	2973.3	2958.4	2935.6	2924.7
10°	2704.4	2725.2	2746.1	2802.6	2873.1	2957.5	3028.9	3071.6	3068.6	3046.8	3027.9
12.5°	2487.0	2508.9	2553.5	2663.7	2792.7	2941.6	3074.6	3163.9	3194.6	3178.8	3146.0
15°	2313.4	2332.2	2366.0	2479.1	2646.8	2873.1	3091.4	3265.1	3343.5	3334.6	3294.9
17.5°	2308.4	2316.3	2337.2	2390.8	2519.8	2765.9	3073.6	3364.3	3514.2	3513.2	3463.6
20°	2395.7	2398.7	2410.6	2421.5	2495.0	2684.5	3027.9	3446.7	3705.7	3705.7	3652.2
22.5°	2516.8	2514.8	2526.7	2516.8	2552.5	2677.6	2999.1	3519.2	3919.1	3935.0	3867.5
25°	2698.4	2688.5	2685.5	2662.7	2669.6	2742.1	3030.9	3601.5	4172.2	4204.9	4120.6
27.5°	2940.6	2924.7	2913.8	2861.2	2843.3	2875.1	3128.2	3700.8	4454.0	4510.6	4403.4
30°	3256.2	3227.4	3211.5	3120.2	3055.7	3060.7	3275.0	3832.8	4748.8	4840.1	4704.1
32.5°	3686.9	3642.2	3599.6	3449.7	3331.6	3292.9	3464.6	4015.4	5068.4	5214.2	5039.6
35°	4169.2	4133.5	4087.8	3856.6	3675.0	3585.7	3720.6	4270.4	5442.5	5673.7	5446.5
37.5°	4633.7	4602.9	4624.7	4313.1	4078.9	3948.9	4056.1	4612.8	5904.0	6245.4	5956.6
40°	5114.0	5090.2	5093.2	4795.4	4522.5	4376.6	4463.0	5042.6	6433.0	6925.2	6569.9
42.5°	5636.0	5618.2	5558.6	5294.6	4988.0	4852.0	4931.4	5538.8	7000.6	7699.3	7242.8
45°	6220.6	6209.7	6154.1	5851.4	5500.1	5347.2	5454.4	6086.6	7571.3	8427.7	7918.6
47.5°	6725.7	6734.7	6727.7	6472.7	6108.4	5884.1	6012.2	6658.2	8102.2	9112.5	8566.7
50°	6968.9	7015.5	7084.0	7004.6	6778.3	6550.1	6574.9	7210.0	8608.4	9754.6	9187.9
52.5°	6841.8	6930.2	7116.7	7243.8	7331.1	7283.5	7217.0	7757.9	9084.7	10334.2	9775.5
55°	6368.4	6492.5	6802.1	7108.8	7554.4	7900.8	7988.1	8365.2	9549.2	10844.3	10331.2
57.5°	5506.0	5707.5	5985.4	6605.6	7355.9	8199.5	8887.2	9207.8	10041.4	11389.2	10912.8
60°	4027.3	4297.2	4642.6	5565.6	6661.2	8039.7	9652.4	10501.9	10741.1	12094.8	11670.0
62.5°	2577.3	2744.1	3061.7	3931.0	5190.4	7220.9	9886.6	12119.6	11927.1	13252.0	12805.4
65°	1764.5	1871.7	2162.5	2650.8	3355.4	5375.0	9259.4	13332.4	13810.7	15086.0	14746.6
67.5°	1282.2	1363.6	1611.7	2039.5	2186.3	3180.7	7185.2	13276.8	15641.7	16975.6	16447.6
70°	934.9	992.4	1200.8	1611.7	1682.2	1769.5	4352.8	11286.0	15602.0	17477.7	16845.6
72.5°	692.7	732.4	872.3	1250.5	1361.6	1194.9	2154.6	8202.5	13406.8	15808.5	15301.3
75°	501.2	531.0	634.2	956.7	1089.7	910.1	1074.8	4793.5	9351.7	11120.2	11209.5
77.5°	383.1	405.9	473.4	700.7	872.3	682.8	666.9	2205.2	4434.2	4456.0	4706.1
80°	307.7	322.5	359.3	493.2	668.9	511.1	434.7	890.2	1401.3	1186.0	1244.5
82.5°	226.3	251.1	303.7	346.4	478.4	352.3	265.0	449.6	532.9	458.5	462.5
85°	129.0	145.9	183.6	248.1	305.7	215.4	151.8	199.5	248.1	203.4	181.6
87.5°	45.7	59.5	64.5	97.3	133.0	89.3	58.6	57.6	81.4	60.5	50.6
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°	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1	2742.1
2.5°	2761.9	2757.0	2737.1	2710.3	2682.5	2655.8	2646.8	2628.0	2615.1	2608.1	2616.1
5°	2817.5	2801.6	2755.0	2695.4	2632.9	2565.4	2517.8	2474.1	2442.4	2412.6	2424.5
7.5°	2896.9	2869.1	2788.7	2684.5	2573.4	2461.2	2377.9	2314.4	2271.7	2243.9	2249.8
10°	2989.2	2946.5	2823.5	2667.7	2496.0	2335.2	2236.9	2182.4	2155.6	2140.7	2144.6
12.5°	3095.4	3034.9	2859.2	2629.0	2377.9	2194.3	2126.8	2110.9	2111.9	2112.9	2114.9
15°	3226.4	3142.0	2888.0	2544.6	2224.0	2086.1	2074.2	2100.0	2126.8	2139.7	2138.7
17.5°	3374.3	3255.2	2892.9	2405.7	2073.2	2016.6	2054.3	2109.9	2150.6	2168.5	2172.4
20°	3533.1	3370.3	2857.2	2209.2	1949.1	1960.1	2027.5	2099.0	2143.7	2166.5	2172.4
22.5°	3714.7	3493.4	2771.9	2002.7	1847.9	1898.5	1977.9	2047.4	2094.0	2116.9	2122.8
25°	3922.1	3631.3	2637.9	1829.1	1760.6	1829.1	1908.4	1966.0	2003.7	2024.6	2030.5
27.5°	4152.3	3775.2	2459.3	1691.1	1684.2	1757.6	1823.1	1867.8	1887.6	1903.5	1909.4
30°	4383.6	3906.2	2242.9	1586.9	1617.7	1687.1	1733.8	1753.6	1759.6	1762.6	1769.5
32.5°	4633.7	4019.4	2015.6	1500.6	1554.2	1618.7	1646.4	1655.4	1627.6	1608.7	1614.7
35°	4936.4	4140.4	1793.3	1432.1	1491.6	1547.2	1556.1	1548.2	1515.4	1476.7	1478.7
37.5°	5310.5	4291.3	1615.7	1383.5	1433.1	1469.8	1458.9	1456.9	1459.9	1414.2	1417.2
40°	5769.0	4487.8	1485.7	1345.7	1385.4	1393.4	1362.6	1379.5	1394.4	1324.9	1326.9
42.5°	6278.1	4725.0	1403.3	1319.9	1345.7	1326.9	1279.2	1298.1	1296.1	1204.8	1203.8
45°	6797.2	4983.0	1374.5	1301.1	1309.0	1271.3	1218.7	1223.7	1182.0	1099.6	1102.6
47.5°	7313.2	5259.9	1392.4	1285.2	1263.4	1220.7	1180.0	1158.2	1096.6	1035.1	1035.1
50°	7819.4	5550.7	1457.9	1253.4	1200.8	1176.0	1146.3	1107.6	1042.1	989.5	985.5
52.5°	8288.8	5843.4	1531.3	1200.8	1122.4	1137.3	1118.5	1073.8	1009.3	955.7	956.7
55°	8733.4	6136.2	1560.1	1128.4	1049.0	1103.6	1092.7	1010.3	932.9	889.2	885.3
57.5°	9217.7	6488.5	1528.3	1036.1	989.5	1064.9	1023.2	931.9	887.2	854.5	851.5
60°	9888.6	7041.3	1459.9	922.0	932.9	1007.3	935.9	898.2	849.5	812.8	810.8
62.5°	11003.1	8072.5	1349.7	808.8	866.4	922.0	894.2	856.5	806.8	771.1	771.1
65°	12650.5	9505.5	1142.3	720.5	792.0	838.6	849.5	811.8	760.2	722.5	724.5
67.5°	14040.0	10404.7	864.4	647.1	715.5	771.1	801.9	765.2	710.6	673.9	674.9
70°	13963.5	9751.7	660.0	574.6	648.1	704.6	744.3	715.5	657.0	622.3	625.2
72.5°	12402.4	8157.8	533.9	501.2	579.6	635.2	682.8	661.0	601.4	567.7	567.7
75°	9111.5	5790.8	426.7	426.7	494.2	562.7	615.3	601.4	546.8	523.0	516.1
77.5°	3840.7	2429.5	334.5	354.3	410.9	483.3	548.8	553.8	506.1	535.9	486.3
80°	1021.2	669.9	255.1	278.9	322.5	399.0	477.4	475.4	423.8	396.0	368.2
82.5°	389.0	264.0	181.6	196.5	233.2	305.7	378.1	390.0	338.4	292.8	292.8
85°	149.9	113.1	112.1	118.1	136.0	202.5	285.8	295.7	255.1	216.4	223.3
87.5°	38.7	33.7	41.7	39.7	62.5	108.2	163.8	169.7	155.8	90.3	129.0
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)