

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: P945732

Luminaire Tested: **GALN-SB1C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6718 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

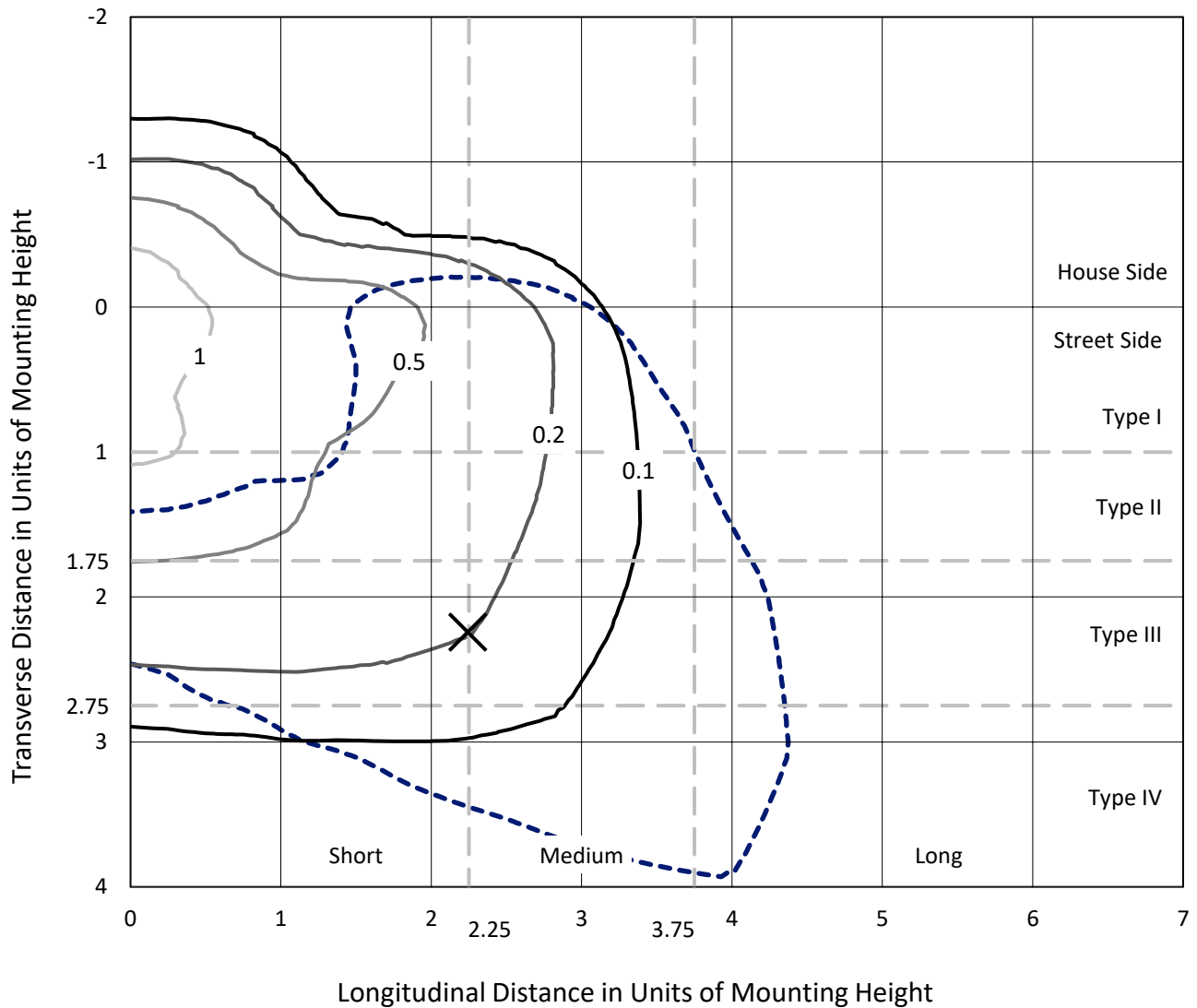
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

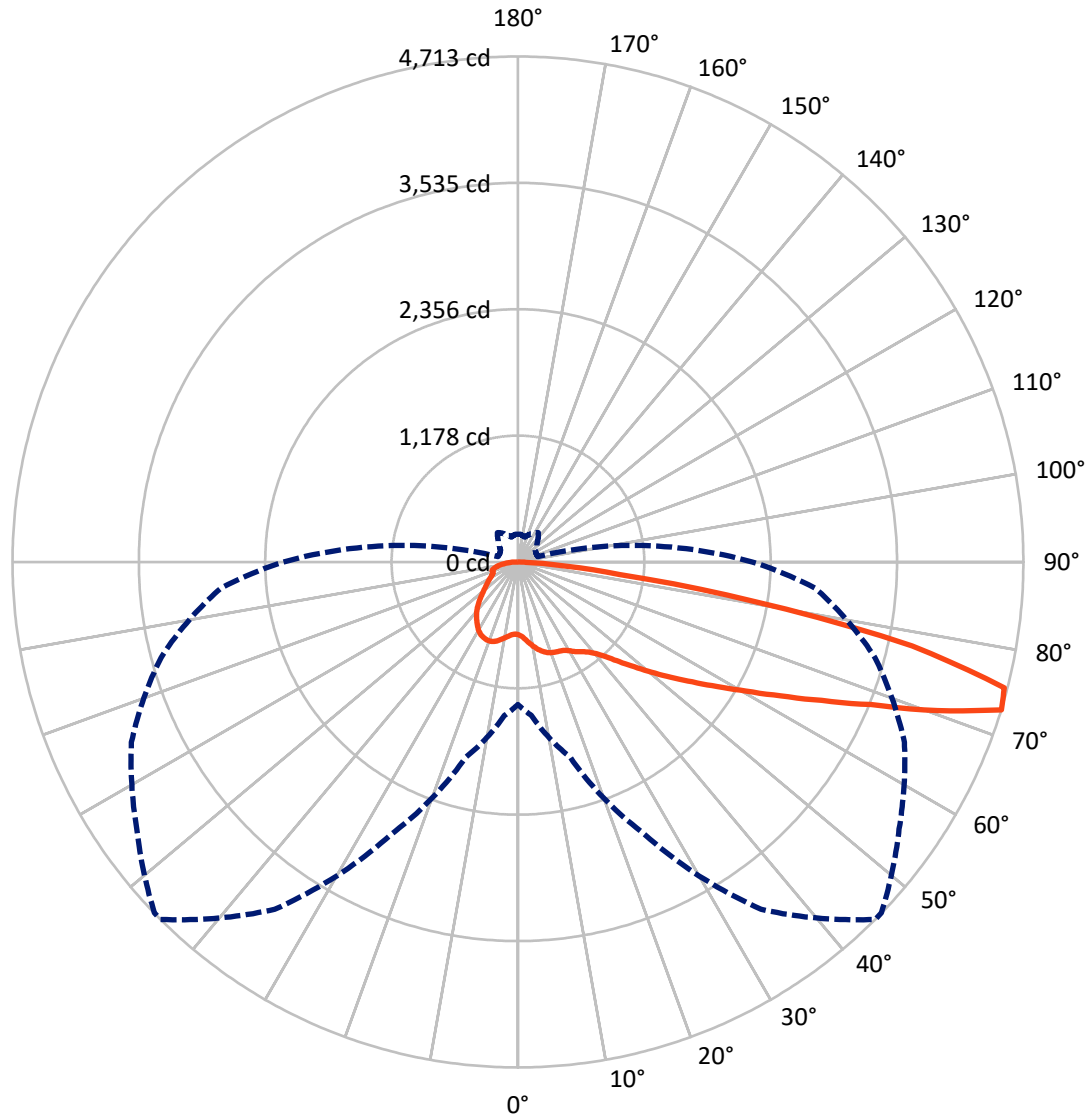
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.7	0.0	1518.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5199.3	0.0	5199.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	6718.0	0.0	6718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.0
10°-20°	230.0	3.4
20°-30°	400.1	6.0
30°-40°	573.5	8.5
40°-50°	807.5	12.0
50°-60°	1236.9	18.4
60°-70°	1791.9	26.7
70°-80°	1430.9	21.3
80°-90°	178.2	2.7
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°	6718.0	100.0
0°-180°	6718.0	100.0

Coefficient of Utilization



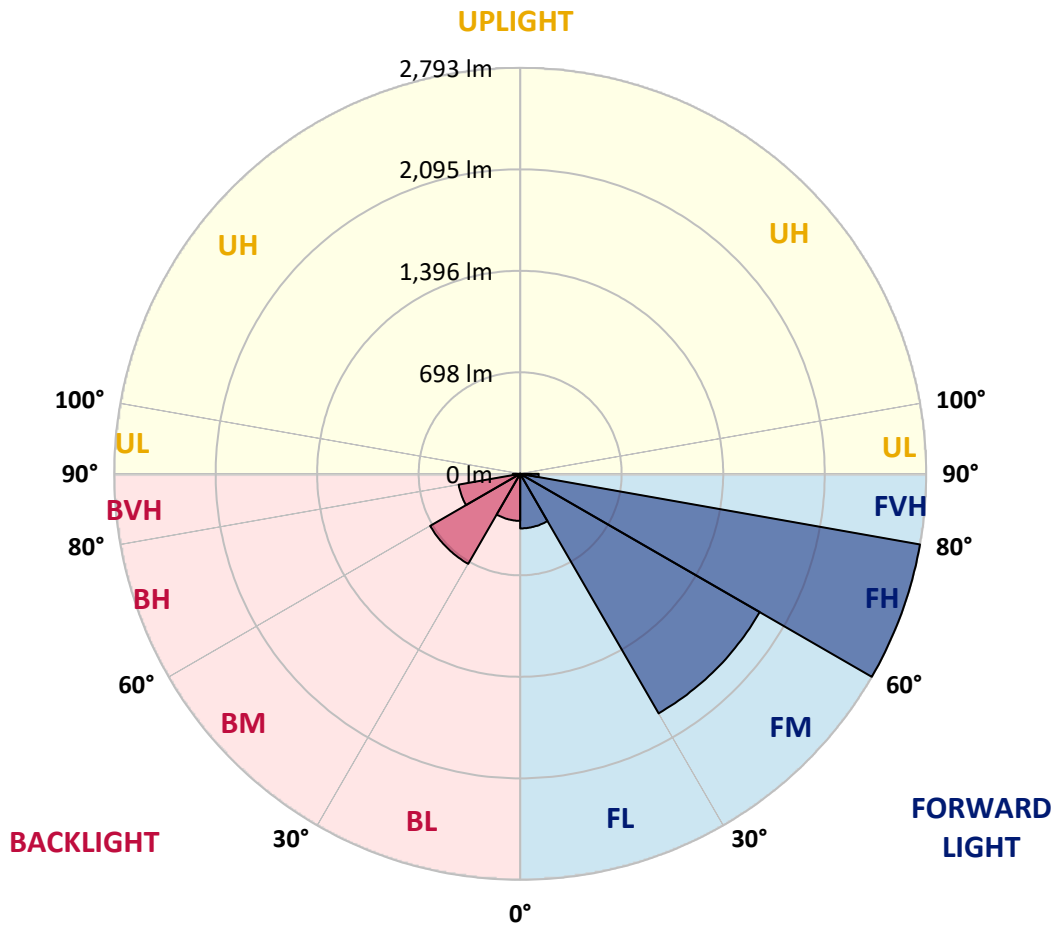
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.7	5.6			
FM (30°-60°)	1902.9	28.3			
FH (60°-80°)	2792.9	41.6			G2/5000
FVH (80°-90°)	127.9	1.9			G2/225
BL (0°-30°)	323.3	4.8	B1/500		
BM (30°-60°)	715.1	10.6	B1/1000		
BH (60°-80°)	429.9	6.4	B1/500		G1/500
BVH (80°-90°)	50.4	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	704.3	708.9	704.6	700.7	698.9	694.3	694.0	691.2	689.4	684.4
5°	753.4	759.5	752.4	744.6	737.5	726.2	724.8	716.6	707.4	696.8
7.5°	809.0	814.3	806.2	794.5	782.1	763.4	763.0	748.1	733.6	715.6
10°	857.5	864.6	853.6	837.7	822.1	800.9	798.4	781.4	763.0	739.6
12.5°	900.3	905.3	894.7	875.2	857.1	835.9	832.7	814.0	793.4	766.9
15°	934.3	940.7	926.5	905.6	886.5	865.6	862.8	845.8	825.3	797.3
17.5°	956.6	961.9	947.4	924.0	905.6	888.3	886.2	872.0	854.0	825.6
20°	965.1	970.7	955.5	931.8	914.8	901.4	900.3	890.1	877.7	851.8
22.5°	973.6	978.9	959.1	934.3	919.4	910.9	910.6	903.9	898.9	877.7
25°	1007.9	1009.3	982.8	947.0	925.8	918.4	918.0	917.7	919.8	903.1
27.5°	1037.6	1037.3	1014.6	981.0	948.1	932.5	932.2	935.7	942.4	928.6
30°	1081.2	1077.3	1050.4	1015.3	985.3	961.2	959.1	955.9	961.2	950.2
32.5°	1173.5	1161.1	1117.6	1055.3	1016.0	997.6	994.8	975.0	977.1	970.4
35°	1305.9	1289.6	1231.6	1131.1	1054.3	1028.1	1026.7	1001.5	997.3	991.3
37.5°	1463.4	1443.2	1375.6	1240.8	1120.1	1063.5	1061.3	1038.7	1021.4	1015.0
40°	1621.6	1596.1	1540.2	1374.5	1217.1	1122.6	1115.8	1081.5	1061.7	1051.1
42.5°	1775.2	1753.9	1706.1	1524.6	1336.7	1208.9	1194.1	1135.3	1120.4	1110.5
45°	1911.1	1891.9	1856.9	1684.9	1476.8	1326.4	1311.9	1216.0	1211.4	1211.4
47.5°	2021.5	2017.2	1980.1	1848.4	1642.1	1460.2	1435.1	1328.2	1340.6	1359.7
50°	2143.9	2132.2	2092.6	2009.4	1836.4	1613.4	1592.9	1465.8	1512.2	1564.6
52.5°	2256.5	2262.8	2218.6	2177.2	2055.8	1784.4	1748.3	1628.3	1728.4	1815.1
55°	2372.2	2372.5	2360.1	2354.5	2285.8	1973.3	1933.7	1823.6	1982.9	2090.5
57.5°	2480.8	2481.5	2499.9	2549.8	2552.7	2191.3	2146.4	2063.6	2265.7	2375.4
60°	2577.8	2582.8	2633.0	2749.8	2787.3	2441.2	2398.7	2347.1	2558.0	2668.4
62.5°	2610.4	2628.4	2740.2	2906.2	3019.1	2747.7	2705.9	2675.1	2865.2	2967.8
65°	2555.1	2596.6	2812.8	3035.4	3257.6	3111.8	3070.4	3036.8	3184.4	3281.0
67.5°	2419.6	2473.0	2808.5	3170.9	3547.1	3550.0	3511.4	3432.5	3526.6	3563.8
70°	2062.5	2142.5	2561.2	3221.5	3879.4	4149.1	4111.9	3908.8	3868.1	3688.3
72.5°	1328.9	1436.5	1885.9	2805.0	3953.4	4712.9	4710.7	4338.8	3976.0	3446.3
75°	484.8	550.7	876.3	1760.6	3318.5	4684.2	4698.0	4265.2	3629.6	2662.0
77.5°	176.6	193.2	285.9	676.7	2040.9	3758.4	3787.1	3409.8	2583.5	1336.0
80°	92.7	101.9	146.5	262.6	874.5	2232.0	2277.0	2026.4	1214.2	402.4
82.5°	51.3	55.6	82.1	142.6	393.9	954.5	981.4	800.5	427.2	170.6
85°	27.6	29.4	38.6	77.9	192.5	330.9	338.3	239.2	170.2	100.2
87.5°	8.1	9.9	12.7	24.8	75.4	74.3	76.1	47.4	67.2	50.6
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
677.7	0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
683.0	2.5°	680.9	679.8	675.9	674.2	672.1	671.7	673.5	673.8	674.2	674.5
690.8	5°	687.3	683.7	680.2	678.1	678.8	679.1	682.7	685.1	686.9	688.3
705.3	7.5°	699.7	696.8	690.8	690.5	691.5	694.7	699.3	705.0	708.2	710.6
724.1	10°	718.1	712.8	705.7	706.7	708.9	713.5	723.0	727.6	732.9	737.5
747.1	12.5°	736.8	732.2	724.1	724.8	728.3	736.5	745.7	751.3	754.9	758.4
771.9	15°	761.2	753.1	744.2	744.2	750.6	759.5	763.7	768.3	770.4	774.3
798.4	17.5°	786.4	775.7	764.1	763.4	771.1	775.4	777.9	778.6	779.3	783.5
824.2	20°	811.5	799.8	783.2	781.8	783.5	782.8	782.5	781.8	782.8	788.1
850.8	22.5°	836.3	822.8	799.8	793.4	788.5	781.8	781.4	781.1	781.8	787.1
879.4	25°	865.3	849.0	818.2	799.1	782.5	773.3	774.3	774.7	775.4	779.6
909.2	27.5°	896.8	878.7	835.2	797.3	767.3	760.9	759.1	760.2	762.7	769.4
938.9	30°	928.3	907.0	850.8	790.3	748.1	739.3	733.6	736.1	743.9	750.6
964.7	32.5°	956.9	935.7	863.2	774.7	723.7	709.9	702.5	705.7	713.5	715.9
993.4	35°	990.6	966.5	868.5	749.9	697.2	675.9	666.0	661.4	665.3	662.9
1027.0	37.5°	1028.1	1002.9	867.8	717.4	666.0	641.6	627.8	610.5	602.3	593.8
1076.6	40°	1083.6	1047.5	859.3	678.1	627.5	605.2	580.4	551.0	532.6	516.0
1156.5	42.5°	1159.4	1109.5	843.7	634.9	583.9	563.1	529.4	495.1	466.1	438.5
1277.9	45°	1272.3	1190.5	824.2	588.9	536.9	516.3	479.9	441.3	408.4	373.0
1450.3	47.5°	1435.1	1299.5	805.8	536.5	487.3	468.6	435.6	399.9	361.0	326.6
1699.4	50°	1658.7	1455.9	788.8	485.5	438.5	424.3	398.1	361.7	322.4	294.8
1991.4	52.5°	1943.3	1668.6	781.8	436.4	392.8	387.5	366.6	332.7	295.5	272.1
2331.8	55°	2269.9	1923.1	781.8	389.3	352.8	354.6	340.1	308.6	276.4	255.5
2682.9	57.5°	2603.3	2180.7	767.6	345.8	318.9	326.3	317.1	289.5	260.5	238.9
3052.0	60°	2910.5	2396.6	710.3	306.1	288.8	300.5	294.4	270.7	235.3	217.3
3360.6	62.5°	3146.5	2518.3	599.9	274.6	264.0	277.5	274.3	246.0	230.7	223.3
3614.0	65°	3264.7	2498.5	458.7	246.7	243.1	264.0	257.3	256.2	244.2	235.7
3696.5	67.5°	3192.2	2327.9	332.7	226.1	231.1	251.6	277.5	281.7	259.4	242.8
3464.3	70°	2874.0	2019.3	247.7	206.7	215.9	252.0	316.4	294.8	254.5	235.0
2778.5	72.5°	2186.4	1505.8	192.2	186.2	196.1	253.7	333.7	288.8	240.3	259.8
1730.9	75°	1250.3	826.7	154.3	161.0	171.3	237.1	324.9	273.2	229.3	238.5
685.9	77.5°	476.7	317.8	127.4	136.3	137.7	207.0	310.7	272.1	218.4	213.0
205.6	80°	165.3	124.2	105.5	108.3	106.5	184.0	298.0	236.8	178.7	160.0
84.9	82.5°	67.6	61.9	83.5	80.0	75.7	143.0	240.7	193.6	146.2	129.2
41.1	85°	29.4	39.3	55.2	48.5	43.9	99.1	192.9	163.9	123.5	106.5
13.4	87.5°	6.0	14.9	23.4	21.9	22.6	66.2	137.0	116.4	87.4	65.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
677.7
675.9
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736.5
759.8
775.7
784.9
790.3
790.6
785.3
776.1
758.1
724.8
670.6
599.1
517.0
436.0
368.8
322.8
293.0
270.4
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214.5
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