

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: P938929

Luminaire Tested: **GALN-SB1B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5890 lumens
Efficiency: N/A
Efficacy: 148.0 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

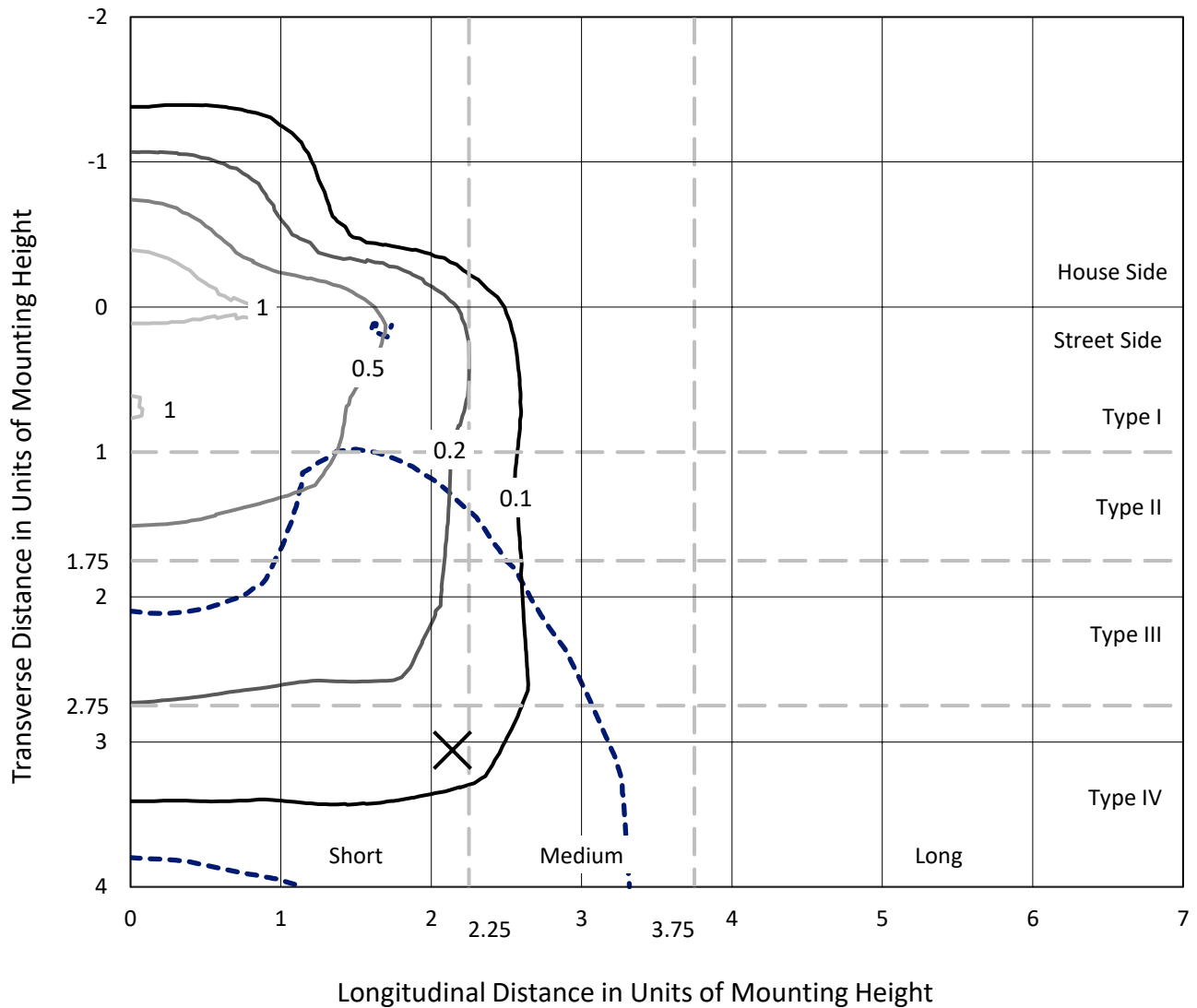
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

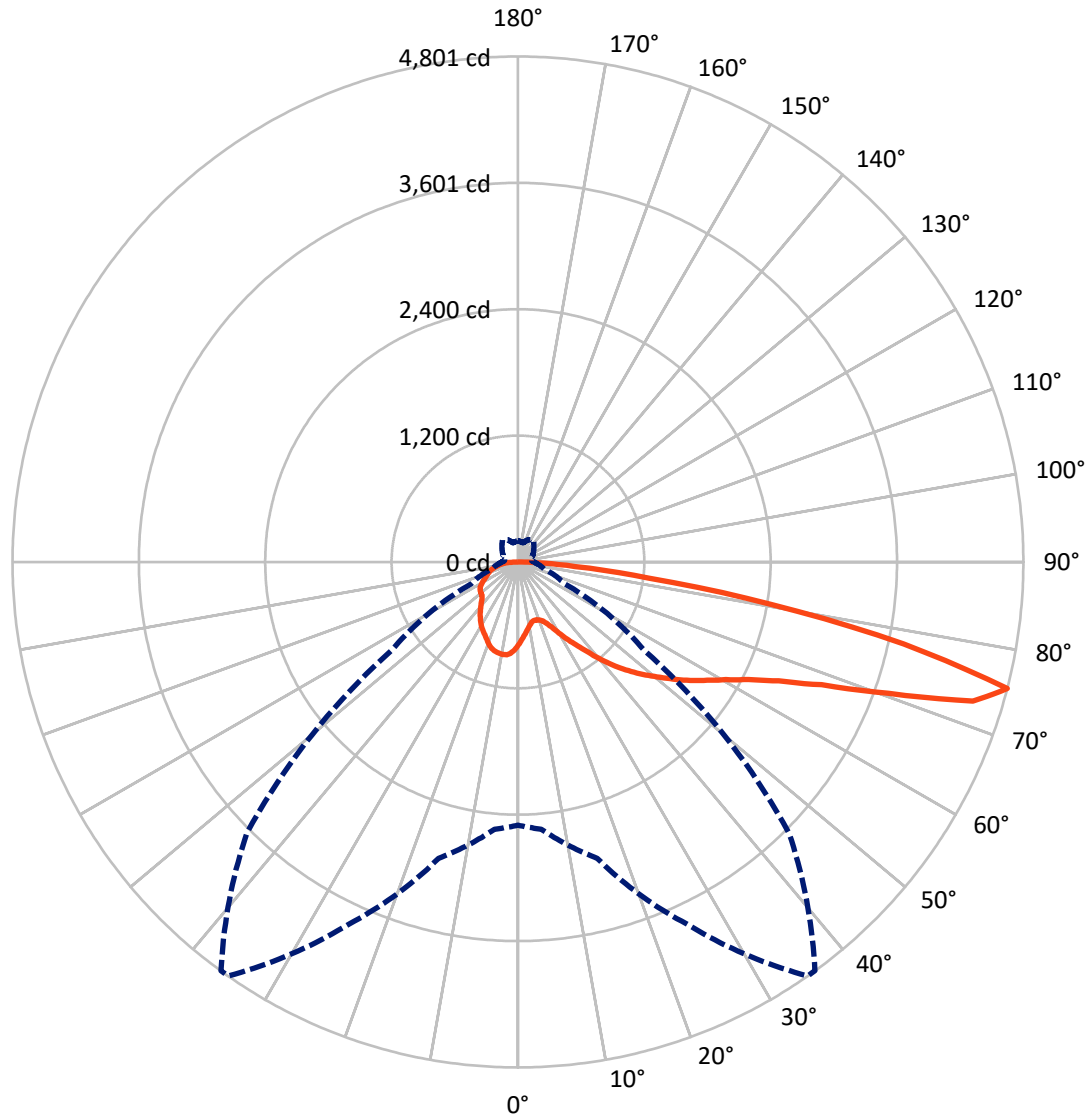
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1401.7	0.0	1401.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	4488.3	0.0	4488.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	5890.0	0.0	5890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.3
10°-20°	214.4	3.6
20°-30°	359.9	6.1
30°-40°	559.4	9.5
40°-50°	830.3	14.1
50°-60°	1146.3	19.5
60°-70°	1390.7	23.6
70°-80°	1149.3	19.5
80°-90°	165.3	2.8
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°	5890.0	100.0
0°-180°	5890.0	100.0

Coefficient of Utilization



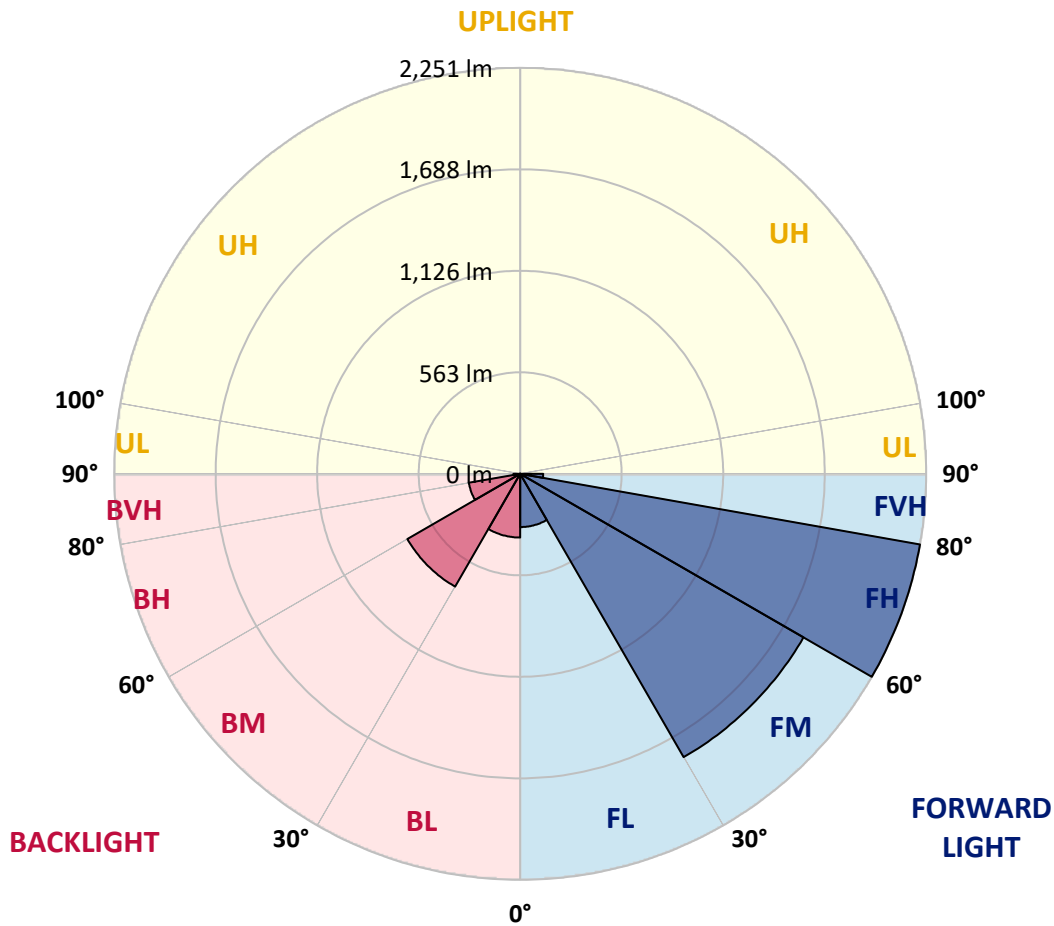
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.4	5.0			
FM (30°-60°)	1813.8	30.8			
FH (60°-80°)	2251.1	38.2			G2/5000
FVH (80°-90°)	128.1	2.2			G2/225
BL (0°-30°)	353.2	6.0	B1/500		
BM (30°-60°)	722.2	12.3	B1/1000		
BH (60°-80°)	289.0	4.9	B1/500		G1/500
BVH (80°-90°)	37.2	0.6			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°	36°	45°	55°	65°	75°
0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	723.7	728.2	730.1	729.2	733.9	733.3	740.0	748.3	759.7	770.9
5°	668.0	672.8	676.9	680.8	690.0	692.9	703.4	719.3	740.3	761.6
7.5°	616.1	620.3	626.6	633.6	649.2	652.1	669.6	694.5	723.7	755.0
10°	573.8	577.9	584.6	592.6	612.0	615.5	637.8	670.9	709.1	748.6
12.5°	555.6	556.9	560.7	568.7	585.6	587.8	612.3	650.2	694.8	743.8
15°	554.7	557.2	557.5	561.7	575.7	576.6	599.2	636.8	685.9	742.9
17.5°	564.2	566.1	563.3	565.8	577.6	579.2	597.0	630.5	683.0	747.0
20°	589.7	591.3	582.7	579.2	587.8	589.1	606.6	634.6	685.9	755.6
22.5°	643.8	644.8	623.8	609.4	610.1	610.7	626.0	651.5	697.0	771.2
25°	728.2	727.6	694.1	666.4	650.5	647.0	657.2	678.9	715.8	791.9
27.5°	826.9	822.1	788.7	747.3	712.6	707.5	705.3	714.5	742.5	819.3
30°	938.4	933.9	897.9	843.8	795.7	787.4	766.4	761.6	782.3	856.5
32.5°	1060.6	1057.8	1014.8	949.2	884.9	875.3	840.0	827.2	843.5	912.9
35°	1163.2	1160.6	1124.9	1057.4	978.8	967.0	931.0	916.7	925.0	985.2
37.5°	1255.8	1254.5	1224.0	1170.8	1089.6	1075.3	1034.8	1030.1	1028.5	1080.4
40°	1341.8	1338.6	1306.8	1278.7	1218.6	1205.5	1169.8	1165.7	1153.6	1197.5
42.5°	1437.0	1428.7	1382.5	1369.5	1353.2	1342.4	1321.1	1321.7	1295.0	1329.7
45°	1514.7	1509.9	1462.5	1454.8	1472.3	1467.9	1486.3	1491.1	1439.2	1468.2
47.5°	1598.1	1593.6	1553.5	1548.1	1595.6	1596.8	1662.1	1663.7	1580.0	1612.1
50°	1700.9	1694.6	1654.8	1661.5	1714.6	1719.4	1838.8	1828.0	1709.5	1758.3
52.5°	1768.8	1772.6	1764.0	1774.8	1847.4	1851.9	2012.7	1985.0	1837.9	1902.5
55°	1818.8	1826.4	1853.2	1878.0	1987.5	1992.0	2176.7	2134.3	1944.2	2036.2
57.5°	1883.1	1872.3	1922.2	1970.6	2120.6	2132.4	2336.2	2278.2	2038.5	2151.5
60°	1975.4	1967.8	2006.6	2078.3	2269.6	2288.4	2504.9	2407.8	2107.6	2242.9
62.5°	2162.6	2143.5	2149.6	2213.0	2457.5	2482.3	2695.3	2520.9	2141.9	2278.5
65°	2442.5	2409.7	2379.2	2423.1	2722.1	2746.6	2910.3	2609.7	2129.2	2209.5
67.5°	2795.0	2762.5	2725.0	2766.4	3111.8	3131.3	3175.5	2659.7	2028.9	1943.3
70°	3085.7	3073.6	3118.5	3288.9	3734.3	3735.0	3515.6	2618.3	1754.1	1377.8
72.5°	3047.2	3039.9	3276.4	3803.1	4518.9	4502.0	3837.5	2305.0	1181.6	621.5
75°	2499.8	2547.3	2913.8	3793.9	4800.7	4798.4	3640.4	1465.3	488.8	257.6
77.5°	1340.5	1415.7	1891.7	2801.1	3747.7	3804.1	2559.4	512.6	209.8	164.9
80°	437.2	502.8	754.0	1426.2	2435.2	2424.7	1096.9	201.2	143.6	116.9
82.5°	185.6	193.3	336.9	673.4	1249.8	1230.3	349.3	115.6	100.9	79.9
85°	72.6	81.2	148.7	311.4	541.3	529.5	126.1	57.3	64.6	52.2
87.5°	23.9	29.0	53.2	106.7	168.4	162.4	30.9	19.7	28.0	23.9
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°
784.9	0°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
787.1	2.5°	791.6	796.7	802.7	811.6	819.3	825.6	832.3	836.5	838.1	842.8
788.4	5°	797.3	808.4	823.4	838.1	852.4	861.0	868.6	872.4	875.9	878.5
791.9	7.5°	806.9	821.2	844.7	863.8	875.9	883.0	888.0	886.8	888.0	888.7
795.7	10°	815.1	835.2	863.2	881.4	890.6	890.9	889.6	885.2	883.0	883.3
801.4	12.5°	825.0	847.3	877.5	892.8	895.4	888.4	883.0	875.3	872.4	871.2
810.0	15°	838.4	863.8	893.1	898.9	892.5	883.6	874.4	861.9	855.6	850.5
824.7	17.5°	854.6	882.6	905.2	901.1	887.4	872.8	857.8	839.0	826.0	820.5
844.7	20°	877.2	902.4	914.5	896.3	875.6	853.3	827.9	804.9	792.8	787.4
870.2	22.5°	904.6	928.8	923.4	888.0	858.8	823.1	791.3	774.4	768.3	764.5
903.0	25°	937.4	958.1	929.8	875.9	831.1	783.0	758.5	753.0	750.2	747.3
943.1	27.5°	980.1	991.2	934.5	858.1	787.7	740.3	731.4	732.3	731.4	726.6
998.9	30°	1036.4	1034.2	939.0	829.1	738.1	701.8	702.4	706.6	707.2	704.0
1076.5	32.5°	1110.6	1088.0	941.2	791.6	690.6	668.0	668.7	673.1	676.3	670.9
1178.1	35°	1200.4	1150.7	937.7	744.4	654.0	635.9	631.1	632.4	633.3	628.2
1301.3	37.5°	1305.2	1221.1	922.1	692.2	623.8	604.3	594.2	585.6	580.5	575.7
1440.8	40°	1420.1	1297.8	893.5	641.3	590.0	570.9	555.6	539.4	522.2	515.8
1588.6	42.5°	1540.5	1376.8	858.8	592.6	551.2	535.6	519.3	495.8	470.0	456.9
1742.0	45°	1665.3	1457.7	824.7	544.5	511.4	504.7	485.9	457.6	429.5	413.0
1895.8	47.5°	1787.6	1534.1	774.7	496.1	474.1	481.4	466.8	440.7	409.5	383.4
2048.3	50°	1904.4	1605.7	692.9	447.0	443.9	474.4	460.4	422.8	387.2	353.8
2198.0	52.5°	2020.3	1663.7	588.1	402.5	427.6	472.5	452.1	410.7	367.1	332.1
2338.7	55°	2118.7	1693.6	487.2	364.3	404.1	456.3	442.3	396.4	338.8	301.5
2435.2	57.5°	2174.7	1669.4	403.1	326.7	371.6	429.5	425.4	365.9	305.0	276.4
2454.0	60°	2150.5	1571.4	334.3	293.9	340.7	400.6	396.1	335.6	279.2	252.2
2353.4	62.5°	2017.1	1384.4	279.9	265.2	312.7	370.9	366.8	312.4	259.5	233.4
2086.2	65°	1748.4	1126.2	237.5	241.4	284.3	335.3	341.3	292.9	243.9	218.4
1614.0	67.5°	1333.5	815.8	204.4	220.7	256.6	300.3	317.8	278.9	230.8	206.6
933.9	70°	760.0	463.3	176.4	200.6	232.1	267.8	299.6	267.8	216.8	196.8
349.9	72.5°	288.2	212.7	152.5	180.5	208.6	240.4	279.6	250.3	200.6	185.6
180.9	75°	153.8	129.6	128.3	157.0	181.5	213.7	254.4	233.1	188.5	196.1
125.1	77.5°	104.8	91.7	107.3	134.4	151.9	184.0	227.7	207.0	163.3	162.7
86.6	80°	72.6	65.0	87.2	108.3	117.5	154.7	198.7	177.7	133.1	124.2
53.5	82.5°	43.6	42.3	65.3	80.9	83.1	119.4	164.6	149.0	108.9	94.9
31.8	85°	23.9	25.2	41.7	47.4	48.4	83.4	129.0	115.3	83.7	70.4
11.5	87.5°	6.7	8.6	15.3	18.8	23.2	43.3	76.7	68.5	42.0	29.3
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>
784.9
842.5
879.1
889.6
883.9
870.5
852.1
820.9
786.8
765.1
747.3
727.6
705.6
673.4
631.7
578.9
518.7
458.5
411.7
380.5
350.9
328.3
298.4
272.6
248.4
229.3
214.3
202.8
194.2
183.1
202.5
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118.8
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71.0
29.3
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