

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: P945875

Luminaire Tested: **GALN-SB1C-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5501 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

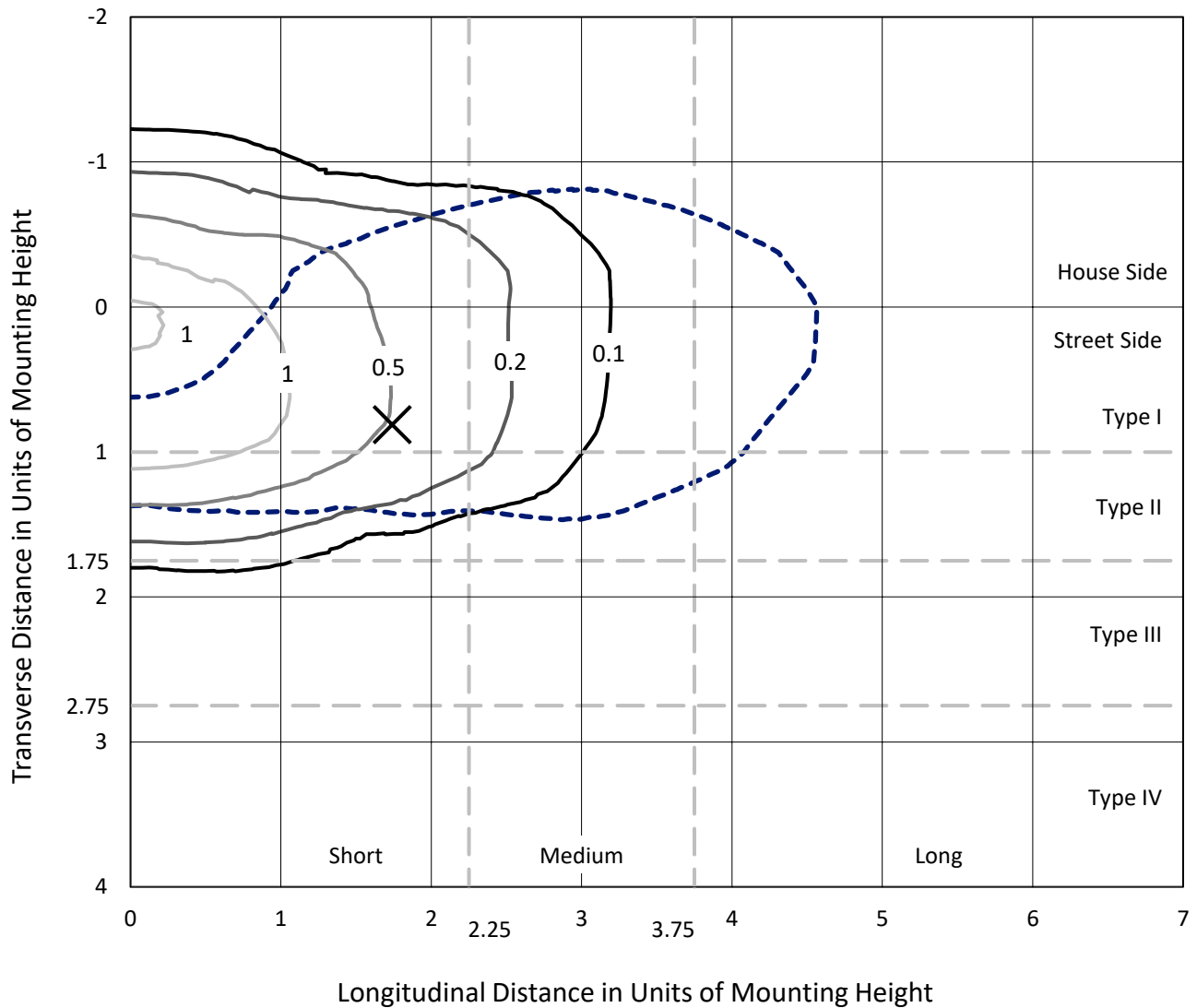
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

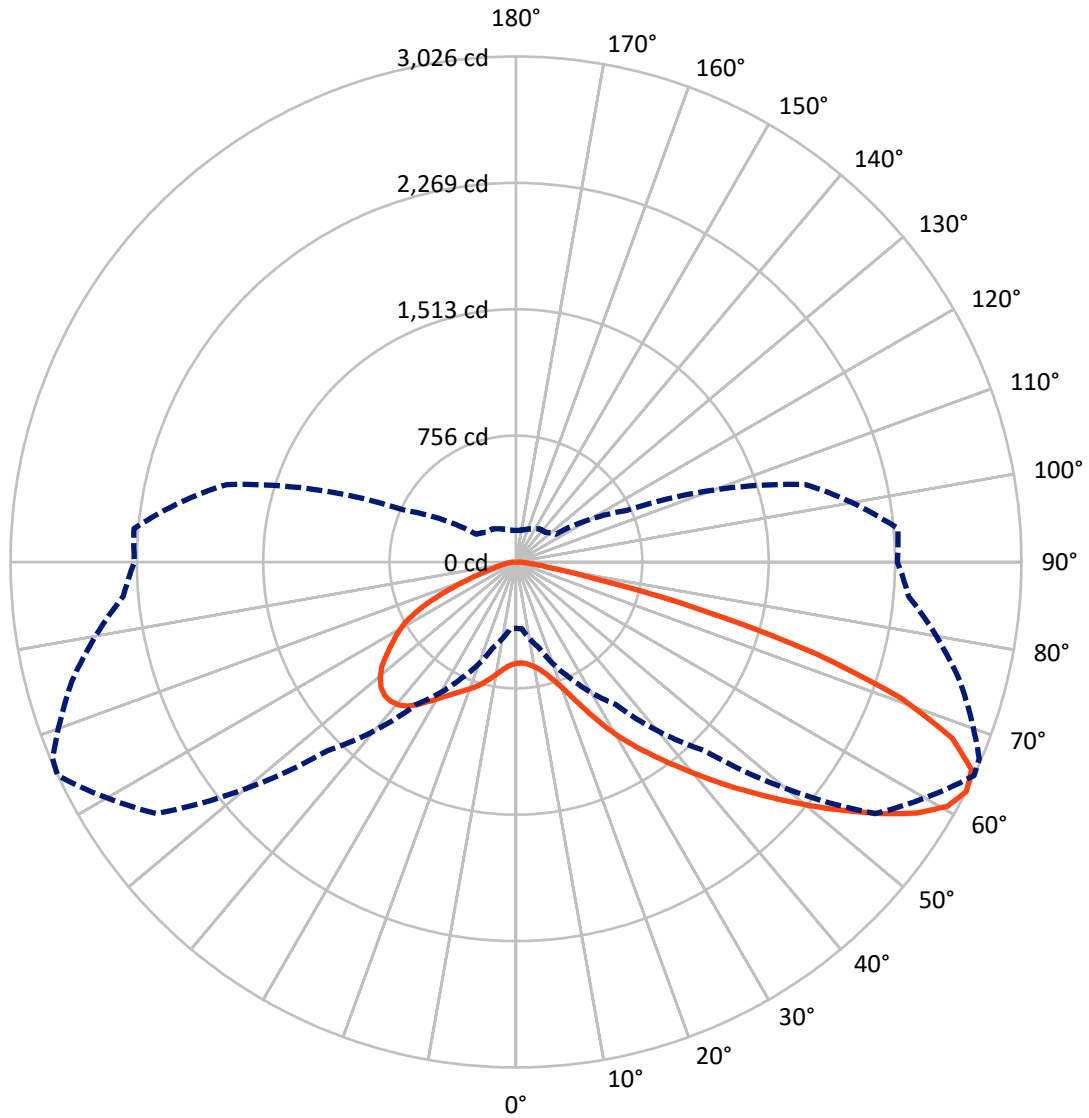
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.9	0.0	1735.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3765.1	0.0	3765.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	5501.0	0.0	5501.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	1.1
10°-20°	204.9	3.7
20°-30°	415.5	7.6
30°-40°	719.1	13.1
40°-50°	1088.2	19.8
50°-60°	1275.9	23.2
60°-70°	1069.7	19.4
70°-80°	590.5	10.7
80°-90°	76.7	1.4
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°	5501.0	100.0
0°-180°	5501.0	100.0



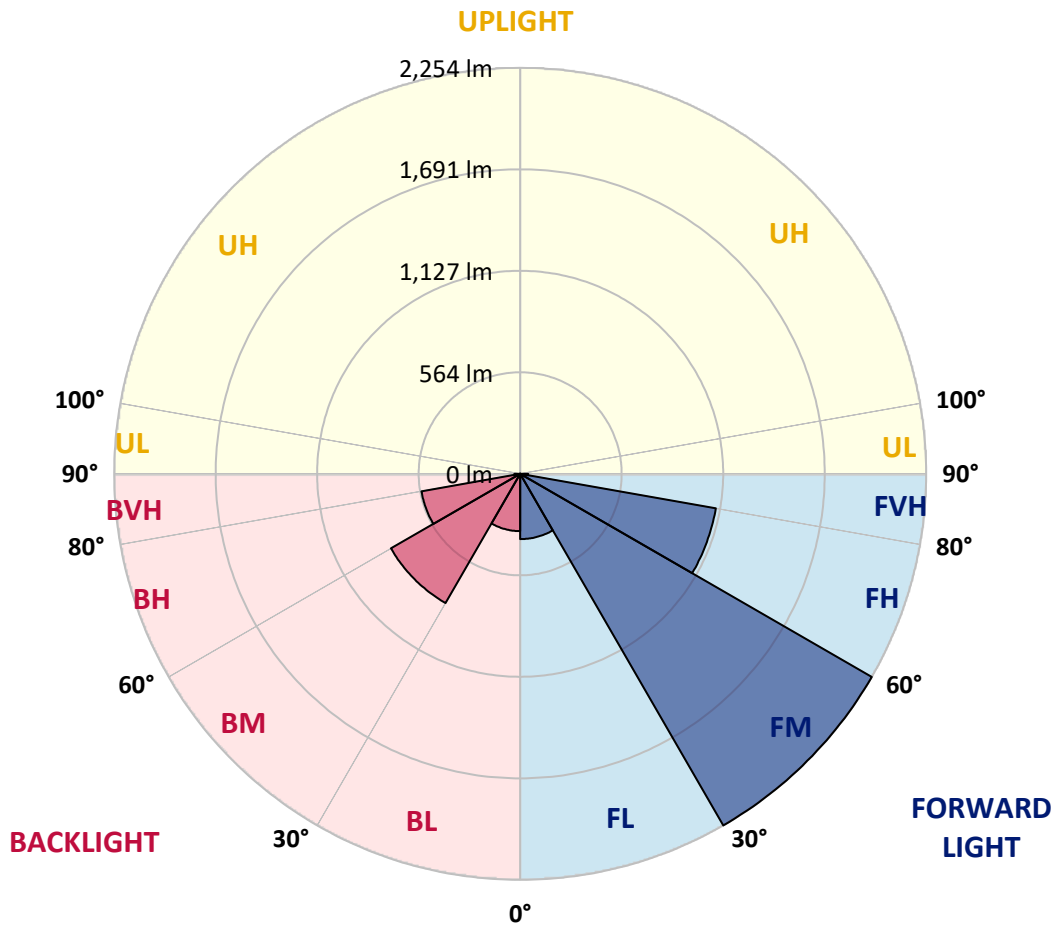
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.6	6.6			
FM (30°-60°)	2254.5	41.0			
FH (60°-80°)	1103.3	20.1			G1/1800
FVH (80°-90°)	44.7	0.8			G1/100
BL (0°-30°)	318.3	5.8	B1/500		
BM (30°-60°)	828.7	15.1	B1/1000		
BH (60°-80°)	556.9	10.1	B2/1000		G2/1000
BVH (80°-90°)	32.0	0.6			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°	67°	75°
0°	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2
2.5°	602.2	600.5	601.9	601.9	602.5	602.2	604.2	604.8	605.6	607.3
5°	596.2	595.9	598.5	600.8	603.0	605.0	607.6	611.3	611.9	613.9
7.5°	594.2	592.5	596.5	599.3	604.8	609.6	616.5	622.7	625.3	626.2
10°	609.6	606.8	610.5	612.2	616.7	621.6	629.6	639.6	642.4	645.9
12.5°	635.9	632.7	638.2	640.7	645.0	649.3	654.7	664.4	665.8	672.1
15°	671.8	668.1	671.5	674.7	681.8	685.8	691.2	700.7	700.7	705.5
17.5°	720.6	715.8	718.3	719.5	724.1	730.0	739.2	747.5	751.7	750.0
20°	793.4	787.4	787.4	781.7	780.0	784.8	796.8	808.2	812.8	804.0
22.5°	902.7	894.2	889.3	869.9	862.2	862.8	874.7	888.7	892.4	876.7
25°	1041.7	1028.3	1021.7	993.2	975.8	960.7	970.1	988.0	993.2	973.8
27.5°	1180.7	1181.5	1175.3	1141.0	1112.2	1084.5	1079.7	1098.5	1103.9	1081.9
30°	1375.6	1355.4	1343.4	1302.3	1261.2	1222.4	1202.4	1210.1	1211.5	1185.3
32.5°	1543.7	1538.6	1512.9	1476.9	1424.1	1363.3	1330.0	1317.7	1315.4	1278.0
35°	1735.2	1732.4	1705.3	1662.4	1605.4	1520.9	1460.7	1425.6	1422.7	1370.2
37.5°	1929.9	1929.9	1903.3	1856.5	1797.4	1691.8	1600.2	1544.6	1535.4	1466.9
40°	2085.1	2075.7	2080.6	2060.9	1993.2	1881.1	1755.2	1674.4	1662.2	1580.0
42.5°	2173.3	2170.2	2199.3	2221.3	2193.6	2104.0	1925.9	1815.1	1798.0	1704.4
45°	2193.0	2189.6	2241.5	2322.0	2360.8	2324.0	2111.4	1963.3	1942.4	1834.5
47.5°	2147.6	2140.8	2217.0	2344.0	2468.4	2533.2	2312.3	2123.9	2093.7	1961.3
50°	2011.2	2004.6	2119.9	2288.6	2504.7	2675.3	2530.3	2294.3	2248.1	2097.1
52.5°	1714.7	1717.8	1898.5	2130.2	2457.0	2763.8	2718.1	2473.8	2418.2	2236.1
55°	1335.7	1342.5	1564.6	1819.7	2266.3	2750.4	2846.3	2658.8	2603.4	2366.8
57.5°	956.4	986.6	1194.7	1447.3	1900.2	2537.8	2874.2	2834.6	2780.9	2509.5
60°	619.9	625.3	839.4	1093.9	1447.0	2159.9	2817.5	2967.9	2925.9	2655.1
62.5°	397.3	401.0	531.4	765.2	1041.4	1597.9	2626.2	3025.8	3013.0	2751.2
65°	292.0	289.1	357.0	505.7	701.5	985.5	2254.9	2997.8	3023.2	2811.5
67.5°	243.7	239.7	273.1	350.2	516.9	559.7	1668.4	2816.0	2909.1	2804.6
70°	222.0	218.6	238.9	260.0	403.3	374.7	841.1	2448.1	2591.4	2726.7
72.5°	188.1	182.1	209.8	230.9	313.7	287.4	347.6	1880.5	2055.2	2477.0
75°	145.8	141.8	165.5	203.2	235.7	224.3	219.8	1141.9	1332.5	1915.6
77.5°	115.6	110.2	131.9	158.4	212.1	169.2	160.1	491.7	680.7	1222.9
80°	87.0	82.2	100.2	125.3	163.0	127.6	103.6	200.6	256.6	619.6
82.5°	61.9	57.7	69.9	91.9	109.6	114.4	63.6	112.4	126.4	238.9
85°	39.7	37.1	46.8	57.7	69.6	73.6	38.8	58.8	64.5	98.5
87.5°	21.7	17.7	25.1	26.8	32.3	29.4	18.6	21.4	23.1	35.7
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°
606.2	0°	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2
607.3	2.5°	608.5	609.3	612.2	613.0	615.0	617.6	619.3	621.0	621.0	622.7
616.5	5°	616.7	618.7	624.7	627.9	633.0	638.2	641.3	645.0	647.3	648.4
631.0	7.5°	632.7	635.9	644.4	649.9	658.7	665.8	670.7	675.8	677.0	680.1
651.3	10°	654.4	658.1	667.8	678.1	688.7	697.5	702.1	705.8	707.2	707.8
677.3	12.5°	679.2	684.7	697.2	709.8	720.9	728.6	729.8	728.9	724.9	721.5
709.2	15°	709.8	714.6	728.6	742.3	753.2	754.6	747.5	742.9	738.0	737.2
744.9	17.5°	746.3	748.9	761.7	775.1	776.0	771.1	760.6	756.3	751.7	748.6
791.4	20°	788.8	788.0	797.1	802.8	796.8	782.0	766.0	758.9	754.3	750.6
848.5	22.5°	839.6	833.1	831.9	830.5	814.5	783.4	761.7	752.6	745.5	740.3
928.1	25°	913.6	888.4	871.0	861.3	825.4	775.7	748.0	727.8	714.4	705.5
1025.4	27.5°	1006.0	963.8	919.8	896.2	825.4	760.0	714.9	682.1	660.1	651.0
1119.6	30°	1094.2	1050.0	985.2	938.1	823.4	734.3	661.6	615.9	590.2	581.1
1200.1	32.5°	1169.6	1121.3	1054.5	984.1	818.5	692.7	595.3	544.8	520.0	509.2
1279.7	35°	1239.5	1188.1	1124.2	1034.6	805.7	631.6	522.6	484.0	456.4	438.9
1360.8	37.5°	1311.1	1250.0	1190.1	1080.2	782.6	560.2	466.6	433.8	401.3	377.9
1447.0	40°	1389.0	1316.0	1260.6	1107.3	744.6	492.3	423.2	393.3	358.7	333.9
1546.3	42.5°	1480.1	1395.0	1339.1	1121.3	692.7	444.1	395.0	365.6	333.1	312.8
1652.7	45°	1575.1	1482.1	1410.7	1121.0	634.7	421.5	385.9	356.7	320.8	299.7
1762.1	47.5°	1674.7	1573.1	1472.7	1102.8	584.5	424.7	380.7	337.6	298.0	277.4
1872.5	50°	1774.6	1672.7	1532.6	1068.5	563.1	417.8	361.6	310.8	264.0	245.4
1976.1	52.5°	1873.6	1778.6	1584.2	1019.7	541.4	392.4	337.1	276.0	250.0	237.2
2083.1	55°	1973.2	1883.3	1640.5	948.7	487.2	362.7	296.0	262.9	238.9	227.2
2187.9	57.5°	2073.1	2004.4	1693.8	877.6	419.0	326.2	273.4	246.9	227.7	217.8
2275.5	60°	2177.0	2142.8	1748.9	812.2	351.6	279.4	256.9	234.0	214.6	203.5
2359.7	62.5°	2284.0	2295.2	1792.0	728.1	289.7	250.9	242.0	218.6	199.8	189.2
2429.3	65°	2391.9	2442.2	1820.3	611.3	234.9	223.8	226.0	201.8	182.7	173.5
2480.4	67.5°	2473.3	2548.0	1812.3	462.6	192.6	198.1	206.1	184.1	166.1	159.0
2472.1	70°	2482.4	2535.5	1733.5	316.8	161.3	173.0	183.8	166.7	148.1	143.0
2355.7	72.5°	2360.8	2364.2	1514.0	206.9	136.4	151.8	160.4	149.0	131.0	125.9
2060.9	75°	2042.0	1955.3	1111.6	136.4	114.2	130.4	138.4	130.4	113.0	114.2
1542.0	77.5°	1547.1	1384.8	675.0	97.0	95.3	109.6	120.4	114.7	99.9	112.2
775.4	80°	797.1	749.2	301.1	72.5	75.3	87.6	99.0	91.6	79.1	75.3
173.2	82.5°	182.7	212.3	118.7	51.9	54.5	63.1	75.6	68.8	56.8	47.9
72.2	85°	63.9	69.9	52.5	32.5	32.0	39.4	51.4	45.9	38.5	30.8
30.5	87.5°	20.3	26.5	19.7	13.1	13.7	17.7	23.7	21.7	18.0	11.7
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>
606.2
622.7
649.0
679.0
706.4
721.5
737.2
748.9
750.9
742.0
708.9
655.6
586.5
514.6
444.7
384.1
338.8
316.8
303.1
280.3
246.6
237.2
226.0
216.0
202.6
188.9
173.2
159.3
143.3
125.6
110.2
98.7
68.8
47.4
32.5
12.3
0.0

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