

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: P945898

Luminaire Tested: **GALN-SB1C-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5350 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

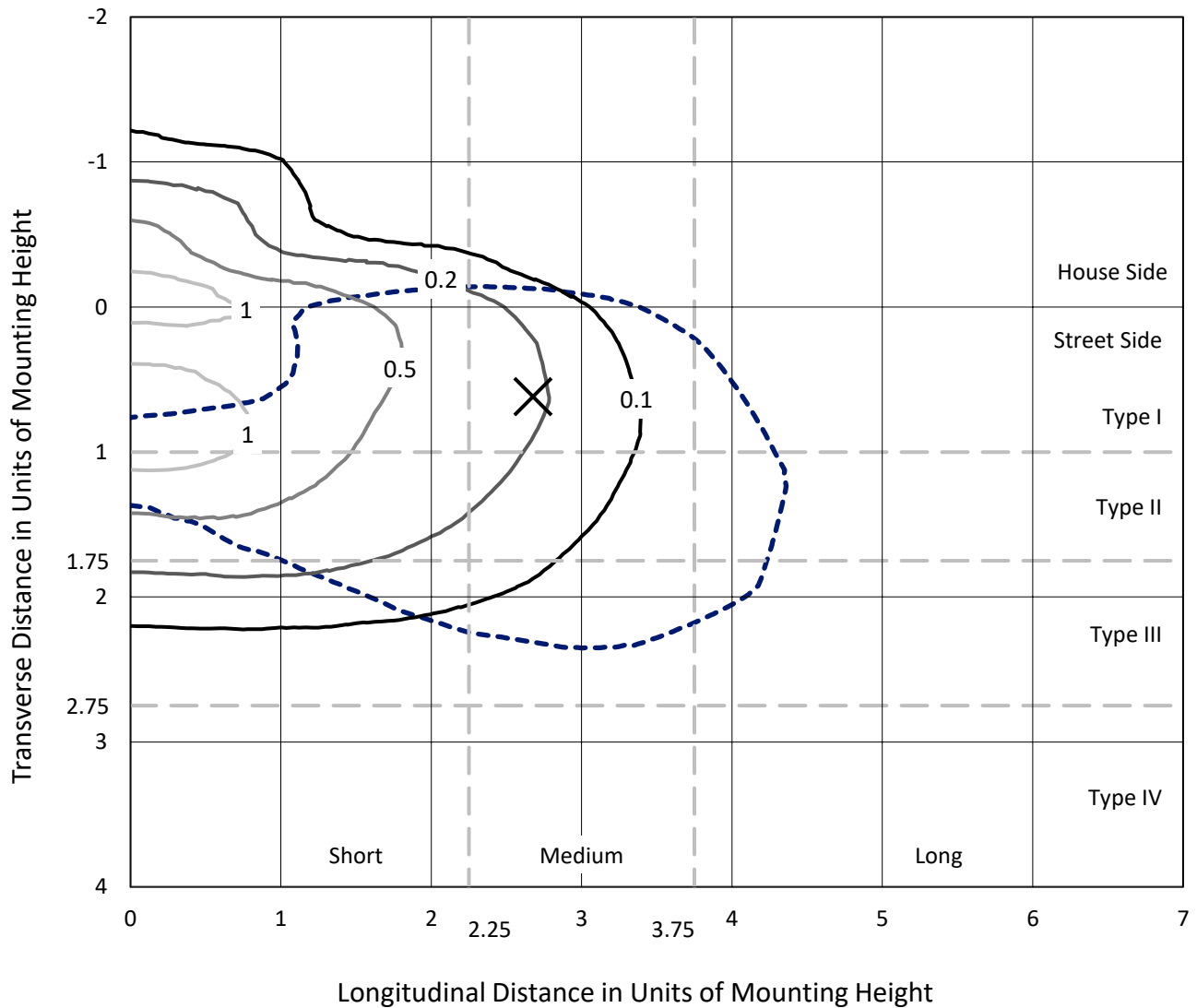
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

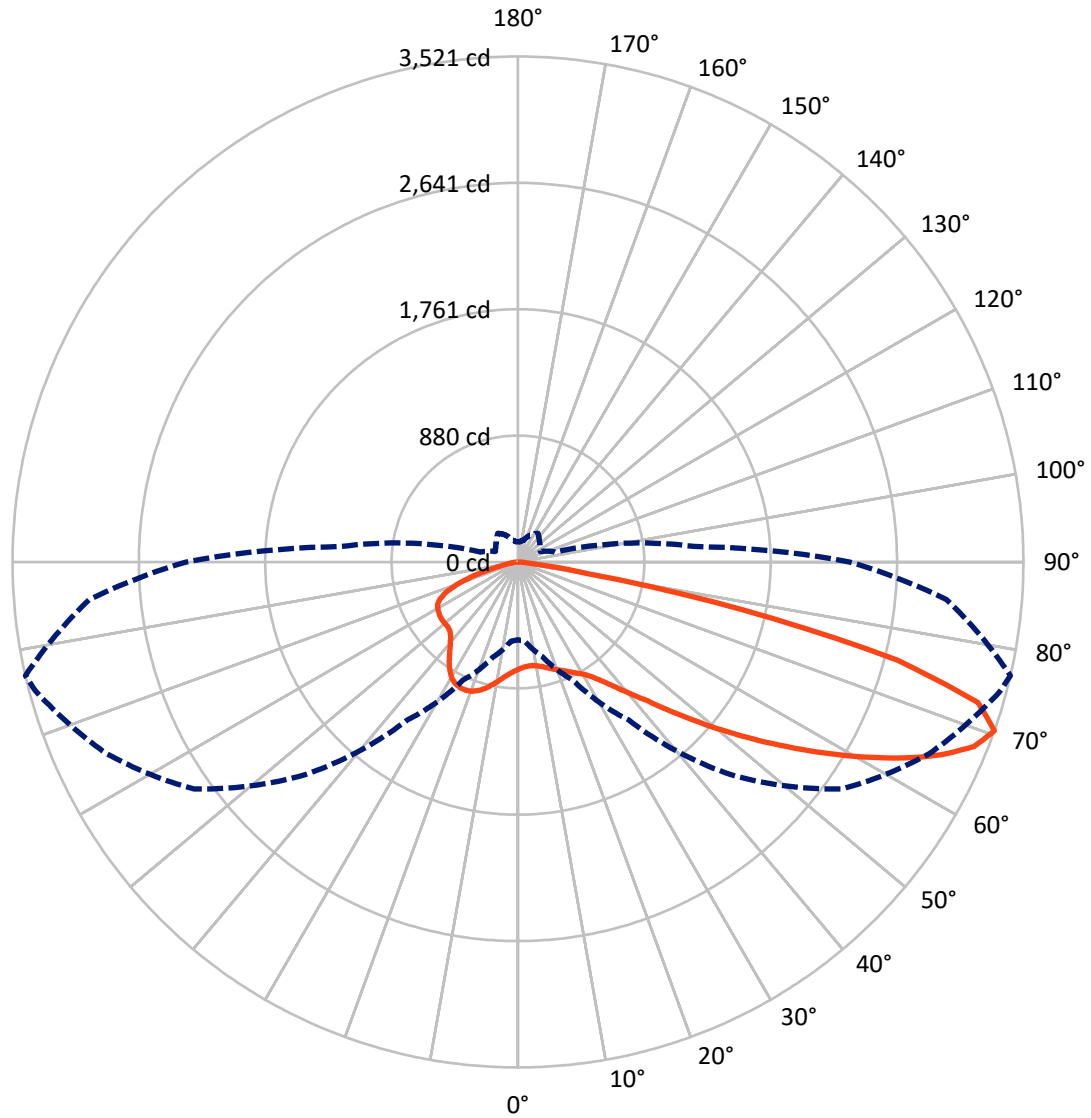
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1171.6	0.0	1171.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4178.4	0.0	4178.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	5350.0	0.0	5350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.3
10°-20°	205.4	3.8
20°-30°	351.3	6.6
30°-40°	565.0	10.6
40°-50°	882.1	16.5
50°-60°	1178.3	22.0
60°-70°	1255.9	23.5
70°-80°	773.1	14.5
80°-90°	67.7	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°	5350.0	100.0
0°-180°	5350.0	100.0

Coefficient of Utilization



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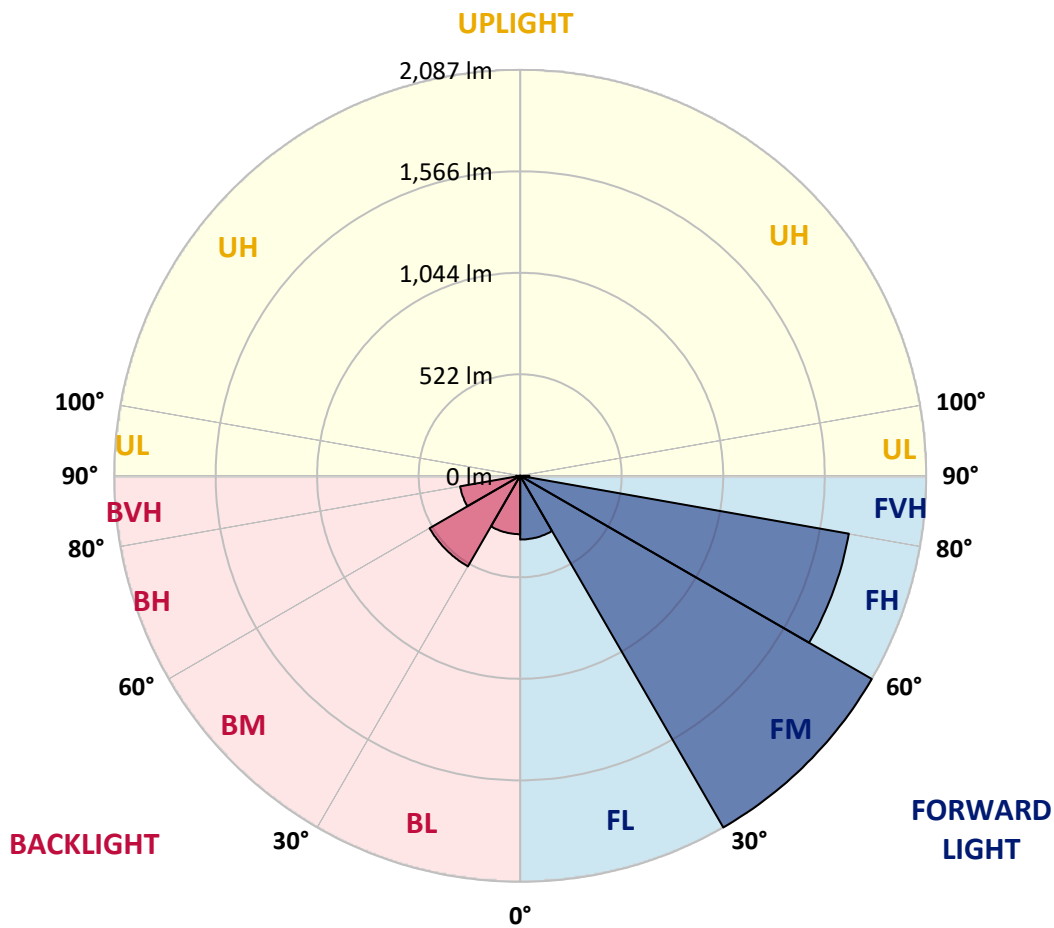
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.8	6.1			
FM (30°-60°)	2087.5	39.0			
FH (60°-80°)	1715.8	32.1			G1/1800
FVH (80°-90°)	47.4	0.9			G1/100
BL (0°-30°)	300.2	5.6	B1/500		
BM (30°-60°)	537.9	10.1	B1/1000		
BH (60°-80°)	313.1	5.9	B1/500		G1/500
BVH (80°-90°)	20.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4
2.5°	688.0	687.7	691.3	692.4	699.0	703.6	712.4	721.7	733.8	735.1
5°	648.3	648.3	652.4	656.8	665.3	674.6	688.0	704.2	725.0	728.3
7.5°	614.6	616.8	620.3	628.8	638.7	652.1	672.7	695.7	723.1	728.3
10°	587.5	589.9	594.3	601.2	616.0	634.6	661.4	691.0	727.7	736.0
12.5°	579.0	581.4	583.9	589.1	602.8	624.7	656.8	693.2	739.0	747.2
15°	598.7	601.7	599.8	598.4	605.5	625.5	659.0	701.2	752.9	764.7
17.5°	644.2	645.3	640.9	628.0	626.9	637.6	669.4	712.1	770.5	783.4
20°	717.6	715.7	706.6	681.2	666.6	664.4	687.2	728.6	788.6	802.3
22.5°	817.3	815.1	797.1	756.8	724.5	703.1	712.9	749.9	808.8	824.2
25°	941.7	938.7	912.1	857.3	807.2	754.3	748.0	778.2	833.8	848.0
27.5°	1087.0	1084.5	1055.7	983.4	911.0	824.5	791.6	811.3	859.8	876.0
30°	1243.1	1250.3	1199.3	1121.5	1030.0	916.0	850.2	852.1	893.5	908.0
32.5°	1426.7	1439.0	1377.7	1279.0	1154.1	1015.4	924.2	909.1	942.6	954.6
35°	1608.6	1622.6	1571.7	1462.6	1318.8	1132.7	1001.5	974.6	1007.8	1020.9
37.5°	1765.9	1784.6	1758.3	1663.4	1494.9	1274.1	1102.3	1051.6	1088.1	1104.5
40°	1890.0	1918.5	1916.6	1857.4	1702.6	1445.6	1230.3	1146.7	1187.8	1205.6
42.5°	1990.9	2015.5	2036.9	2033.9	1919.4	1640.4	1380.7	1270.3	1301.5	1322.0
45°	2060.5	2086.8	2132.8	2182.4	2127.9	1848.9	1553.0	1416.8	1445.3	1476.3
47.5°	2122.7	2152.5	2212.3	2290.9	2304.9	2058.3	1741.8	1587.6	1613.6	1645.6
50°	2128.2	2153.9	2246.5	2358.0	2430.6	2259.4	1944.6	1779.1	1803.5	1837.7
52.5°	1995.8	2036.4	2198.0	2356.1	2488.5	2427.6	2146.0	1978.3	2005.7	2046.8
55°	1549.2	1608.6	2055.8	2282.7	2467.9	2536.4	2337.5	2190.1	2225.1	2268.2
57.5°	1334.4	1360.4	1631.9	2149.0	2374.2	2564.6	2499.1	2404.1	2460.5	2507.6
60°	1199.3	1220.9	1381.5	1941.0	2250.9	2520.0	2624.1	2603.5	2701.1	2757.3
62.5°	1054.6	1075.2	1221.2	1620.7	2093.1	2445.7	2703.0	2787.7	2947.7	3009.1
65°	911.0	928.6	1068.6	1361.8	1892.5	2371.5	2743.8	2946.9	3175.9	3239.5
67.5°	751.0	765.6	897.9	1148.9	1648.7	2269.8	2764.1	3072.1	3374.6	3429.1
70°	542.0	553.2	689.9	908.6	1342.6	2095.0	2755.9	3160.9	3477.6	3521.2
72.5°	256.2	266.3	426.9	589.9	948.3	1754.7	2589.6	3090.4	3372.9	3351.3
75°	136.7	145.5	245.2	323.6	500.9	1202.9	2119.1	2662.2	2832.3	2727.1
77.5°	92.6	99.5	151.8	194.3	228.8	571.0	1362.0	1843.2	1773.3	1599.6
80°	73.4	80.6	124.4	131.5	110.7	206.3	562.8	853.2	612.9	490.2
82.5°	56.4	64.4	104.7	95.4	60.3	84.7	163.9	269.9	157.0	119.5
85°	34.5	43.0	82.2	60.8	34.0	38.6	55.6	75.1	47.9	40.0
87.5°	17.5	24.7	41.6	22.2	15.3	9.0	14.8	14.8	12.6	11.0
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°
746.4	0°	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4
742.5	2.5°	749.1	754.6	763.9	772.7	779.5	786.1	792.7	796.2	797.3	801.7
746.6	5°	757.9	768.0	786.1	803.1	813.8	820.4	825.0	827.8	828.3	829.7
757.9	7.5°	774.0	790.2	815.4	832.4	840.4	839.8	837.9	831.0	828.3	825.8
774.3	10°	796.8	818.2	849.1	860.9	856.0	842.8	825.8	805.8	796.5	787.5
796.8	12.5°	825.0	852.1	882.6	882.0	857.6	823.9	784.5	753.8	734.3	720.3
824.5	15°	859.3	890.5	913.8	895.2	841.7	781.2	723.4	683.4	665.8	650.5
852.4	17.5°	894.6	928.0	938.7	891.0	801.7	717.9	652.4	620.9	603.6	595.4
882.6	20°	929.1	962.3	953.5	867.5	740.9	646.1	587.7	570.5	566.9	568.8
911.9	22.5°	965.6	995.2	956.5	822.0	663.4	572.7	540.6	541.1	549.1	554.8
942.6	25°	1002.8	1022.8	948.6	756.2	580.1	518.7	510.7	519.5	535.1	546.4
977.1	27.5°	1038.7	1047.5	931.3	674.9	508.5	480.0	481.4	499.5	523.1	538.7
1019.0	30°	1079.3	1069.4	898.2	583.3	458.9	446.9	458.4	479.5	503.1	517.0
1071.9	32.5°	1125.0	1088.3	845.6	498.7	423.9	420.3	439.2	452.9	463.3	467.4
1142.0	35°	1182.0	1114.9	778.2	439.2	392.4	400.9	418.9	412.1	408.0	405.8
1236.3	37.5°	1256.0	1150.8	699.2	400.6	366.9	386.9	394.3	372.9	356.7	348.8
1350.5	40°	1345.1	1203.4	623.3	370.7	350.7	374.8	362.0	336.2	315.6	304.4
1479.0	42.5°	1444.0	1258.5	559.5	348.3	341.7	365.0	338.1	307.4	274.3	270.7
1632.2	45°	1547.8	1315.2	515.9	331.0	337.3	356.5	324.4	274.8	251.3	265.8
1785.9	47.5°	1651.7	1367.3	489.6	318.1	335.1	346.9	312.4	256.7	240.0	261.1
1950.6	50°	1767.3	1413.8	477.9	308.8	332.6	343.0	294.3	252.1	228.2	242.2
2121.0	52.5°	1882.1	1450.0	469.1	299.5	329.1	340.0	285.5	246.6	214.0	214.8
2292.6	55°	1996.6	1473.6	459.5	287.2	321.1	333.5	284.7	240.6	203.3	199.5
2473.9	57.5°	2118.8	1487.0	447.7	273.5	307.4	316.7	283.9	235.9	200.0	193.7
2659.4	60°	2243.2	1506.7	432.4	256.7	289.1	296.7	281.9	234.3	198.1	187.4
2834.2	62.5°	2354.7	1513.6	414.0	240.8	265.5	277.0	277.8	232.9	192.9	174.5
2979.5	65°	2427.9	1484.0	382.0	222.8	240.0	256.7	269.9	228.2	183.6	165.2
3051.3	67.5°	2424.9	1399.6	331.8	199.5	215.4	234.3	258.4	220.3	172.3	153.7
2997.0	70°	2312.0	1233.0	268.2	172.3	188.2	210.2	243.6	208.5	158.9	141.1
2664.9	72.5°	1982.9	965.0	194.8	140.6	156.7	185.2	224.4	194.3	145.2	129.9
1969.5	75°	1416.6	610.7	132.1	108.0	121.9	157.0	200.6	177.6	132.6	130.4
986.4	77.5°	723.6	291.8	87.4	78.9	84.9	123.8	168.5	158.6	134.5	107.7
280.6	80°	235.4	107.7	55.1	53.7	56.4	82.5	130.4	130.1	101.9	73.2
68.0	82.5°	75.1	46.3	35.9	34.5	33.2	51.8	91.0	103.0	68.8	46.3
24.4	85°	29.9	27.7	21.1	19.5	14.0	24.4	47.7	68.5	51.2	33.4
6.3	87.5°	11.0	11.0	5.8	4.1	3.0	8.2	12.9	20.5	29.3	17.3
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>
746.4
804.2
831.9
826.4
784.7
717.1
648.8
597.9
568.0
556.2
549.4
542.5
520.3
469.6
408.0
350.7
305.2
274.3
273.5
271.0
252.6
220.6
202.2
194.5
188.2
174.5
165.2
154.5
<i>142.8</i>
129.1
123.0
95.9
64.7
46.0
34.2
17.0
0.0

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