

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: P945518

Luminaire Tested: **GALN-SB1B-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945518
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-SB1B-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4137 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

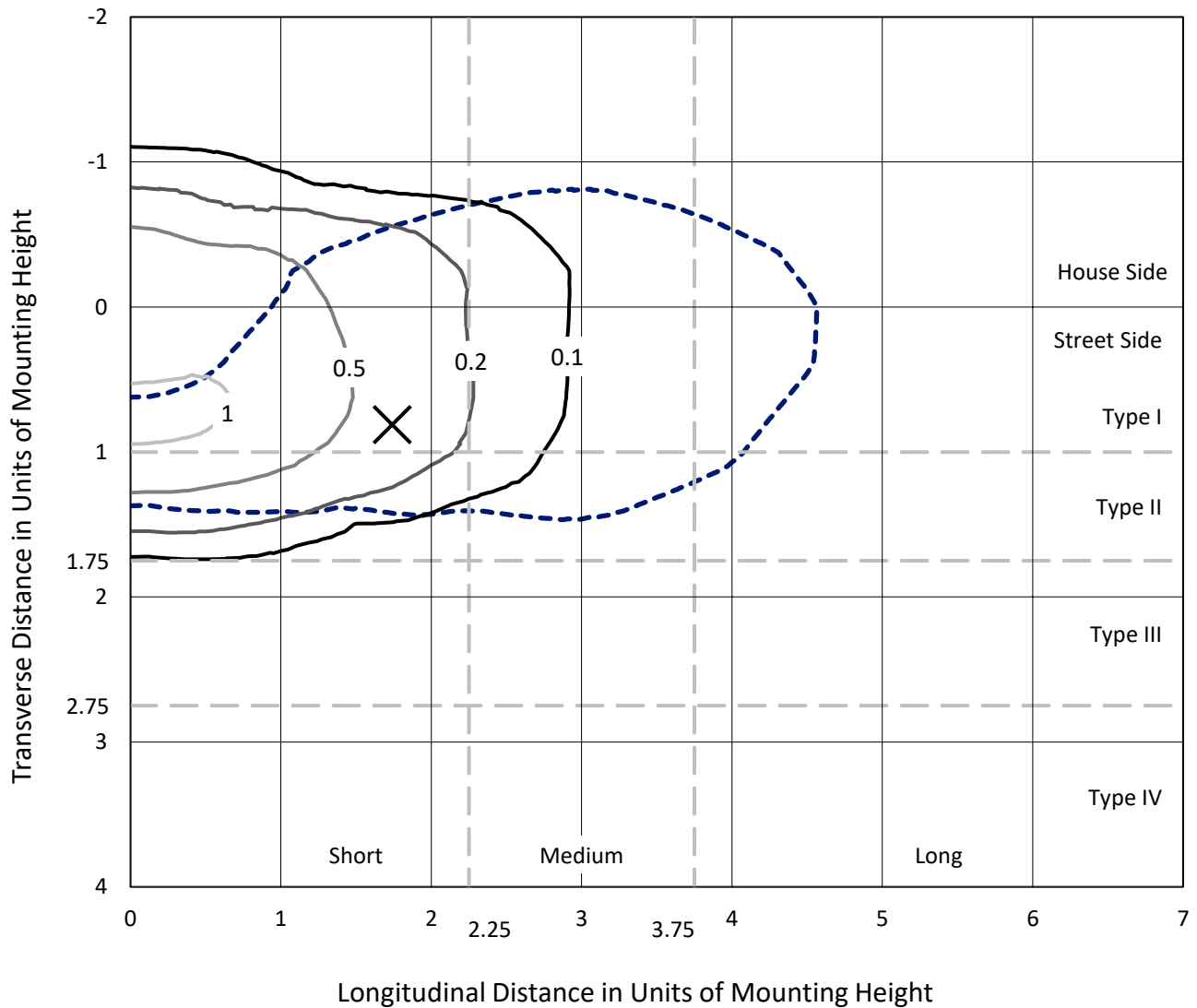
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

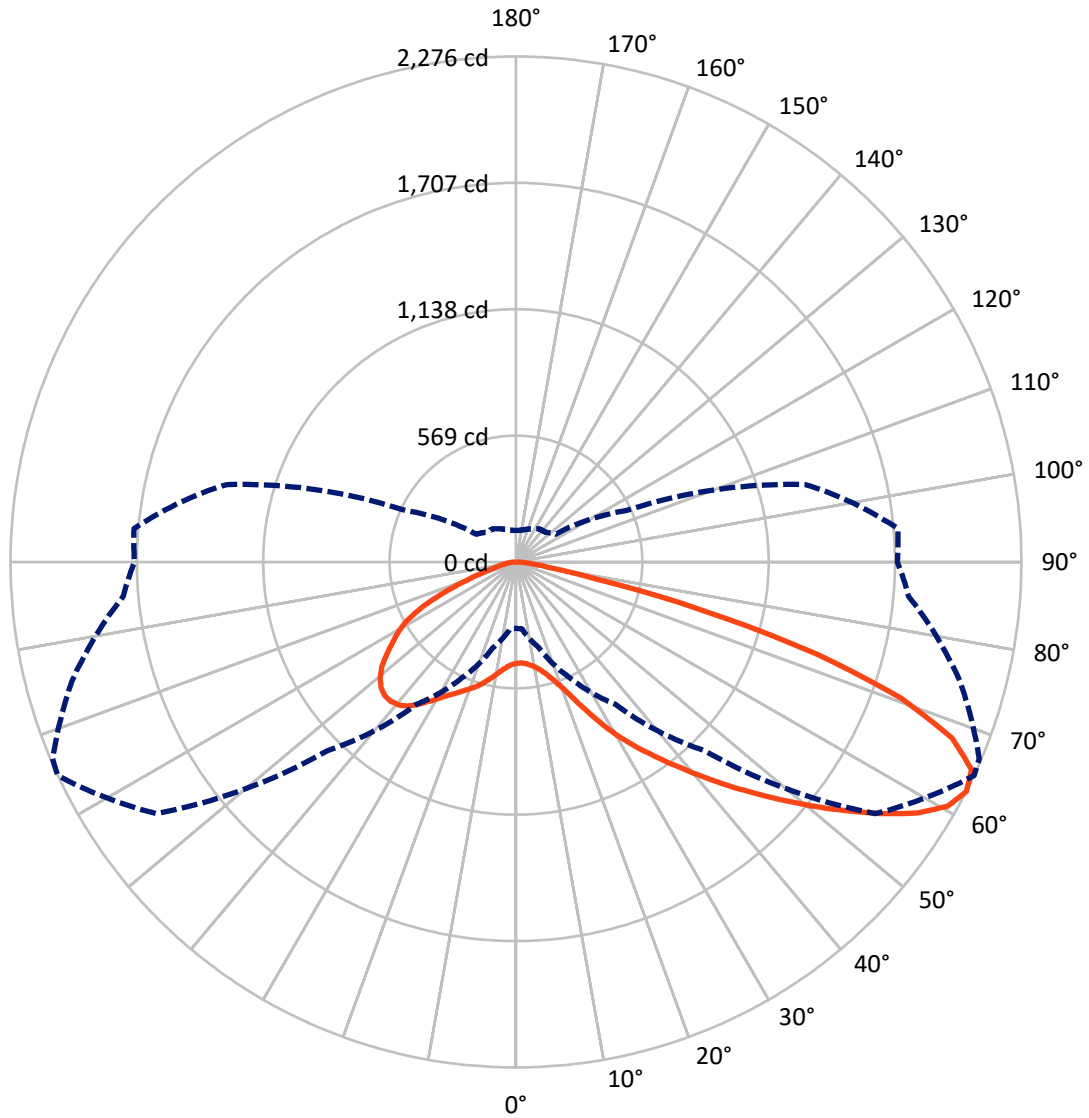
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	1305.5	0.0	1305.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	2831.6	0.0	2831.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	4137.0	0.0	4137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	1.1
10°-20°	154.1	3.7
20°-30°	312.5	7.6
30°-40°	540.8	13.1
40°-50°	818.4	19.8
50°-60°	959.5	23.2
60°-70°	804.4	19.4
70°-80°	444.1	10.7
80°-90°	57.7	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°	4137.0	100.0
0°-180°	4137.0	100.0

Coefficient of Utilization



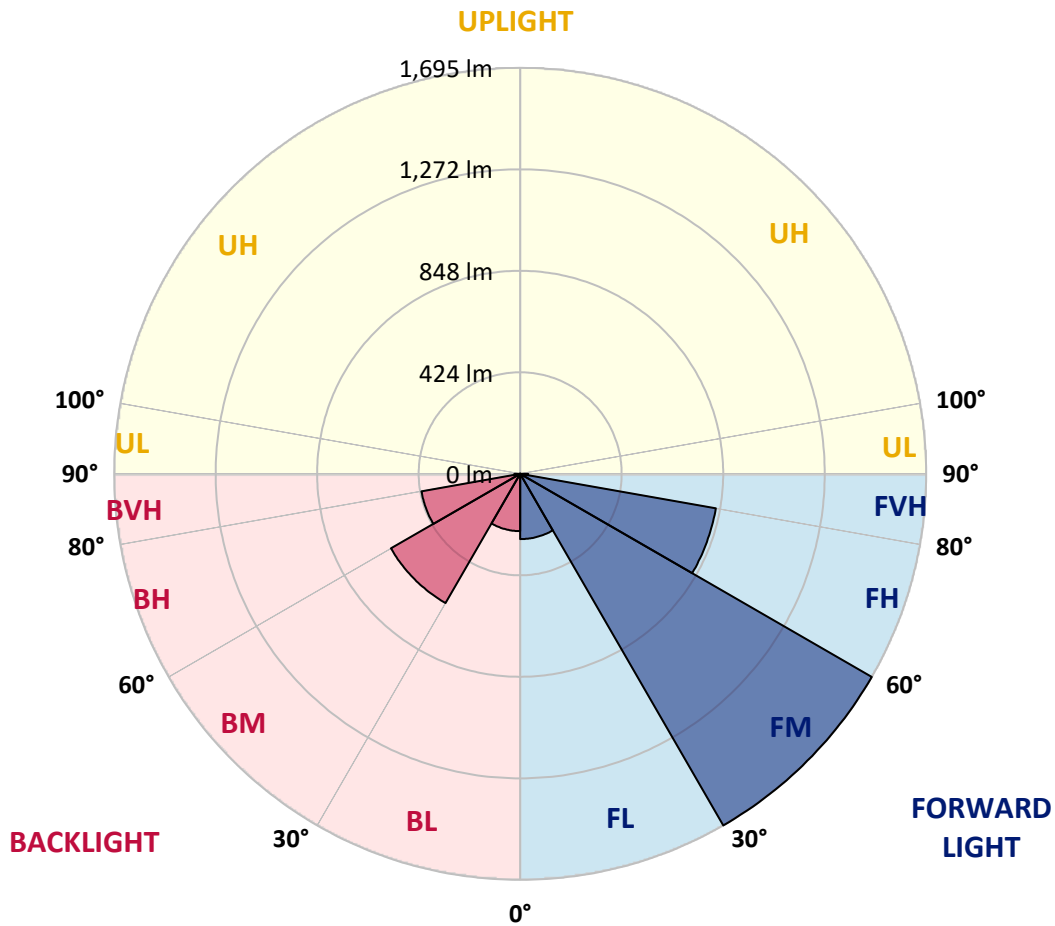
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.7	6.6			
FM	(30°-60°)	1695.5	41.0			
FH	(60°-80°)	829.8	20.1			G1/1800
FVH	(80°-90°)	33.6	0.8			G1/100
BL	(0°-30°)	239.4	5.8	B1/500		
BM	(30°-60°)	623.2	15.1	B1/1000		
BH	(60°-80°)	418.8	10.1	B1/500		G1/500
BVH	(80°-90°)	24.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
2.5°	452.9	451.6	452.7	452.7	453.1	452.9	454.4	454.8	455.5	456.7
5°	448.4	448.2	450.1	451.8	453.5	455.0	457.0	459.7	460.2	461.7
7.5°	446.9	445.6	448.6	450.7	454.8	458.5	463.6	468.3	470.3	470.9
10°	458.5	456.3	459.1	460.4	463.8	467.5	473.5	481.0	483.1	485.7
12.5°	478.2	475.8	479.9	481.8	485.1	488.3	492.4	499.7	500.7	505.5
15°	505.2	502.5	505.0	507.4	512.8	515.8	519.8	526.9	526.9	530.6
17.5°	541.9	538.3	540.2	541.1	544.5	549.0	555.9	562.1	565.3	564.1
20°	596.7	592.2	592.2	587.9	586.6	590.2	599.3	607.8	611.3	604.6
22.5°	678.9	672.4	668.8	654.2	648.4	648.8	657.8	668.4	671.2	659.4
25°	783.4	773.3	768.4	746.9	733.8	722.5	729.5	743.1	746.9	732.3
27.5°	887.9	888.6	883.9	858.1	836.4	815.6	812.0	826.1	830.2	813.7
30°	1034.5	1019.3	1010.3	979.4	948.5	919.3	904.2	910.0	911.1	891.4
32.5°	1160.9	1157.1	1137.8	1110.7	1071.0	1025.3	1000.2	991.0	989.2	961.1
35°	1305.0	1302.8	1282.4	1250.2	1207.3	1143.8	1098.5	1072.1	1069.9	1030.5
37.5°	1451.3	1451.3	1431.4	1396.2	1351.8	1272.3	1203.4	1161.6	1154.7	1103.2
40°	1568.1	1561.0	1564.7	1549.9	1499.0	1414.6	1320.0	1259.2	1250.0	1188.2
42.5°	1634.4	1632.1	1654.0	1670.5	1649.7	1582.3	1448.3	1365.1	1352.2	1281.8
45°	1649.2	1646.7	1685.7	1746.3	1775.4	1747.8	1587.9	1476.5	1460.8	1379.7
47.5°	1615.1	1610.0	1667.3	1762.8	1856.4	1905.1	1739.0	1597.3	1574.5	1475.0
50°	1512.5	1507.6	1594.3	1721.1	1883.6	2012.0	1902.9	1725.4	1690.7	1577.1
52.5°	1289.5	1291.9	1427.7	1602.0	1847.8	2078.5	2044.2	1860.4	1818.6	1681.6
55°	1004.5	1009.6	1176.6	1368.5	1704.4	2068.4	2140.5	1999.5	1957.9	1779.9
57.5°	719.2	742.0	898.5	1088.4	1429.0	1908.5	2161.6	2131.7	2091.4	1887.3
60°	466.2	470.3	631.2	822.7	1088.2	1624.3	2118.9	2232.0	2200.4	1996.7
62.5°	298.8	301.6	399.6	575.4	783.2	1201.7	1975.0	2275.5	2265.9	2069.1
65°	219.6	217.4	268.5	380.3	527.6	741.1	1695.8	2254.5	2273.6	2114.3
67.5°	183.3	180.3	205.4	263.4	388.7	420.9	1254.7	2117.8	2187.7	2109.2
70°	167.0	164.4	179.6	195.5	303.3	281.8	632.5	1841.1	1948.9	2050.6
72.5°	141.4	136.9	157.8	173.6	235.9	216.1	261.4	1414.2	1545.6	1862.8
75°	109.7	106.7	124.5	152.8	177.3	168.7	165.3	858.7	1002.1	1440.6
77.5°	86.9	82.8	99.2	119.1	159.5	127.3	120.4	369.8	511.9	919.7
80°	65.5	61.8	75.3	94.2	122.6	95.9	77.9	150.9	193.0	466.0
82.5°	46.6	43.4	52.6	69.1	82.4	86.1	47.9	84.6	95.1	179.6
85°	29.8	27.9	35.2	43.4	52.4	55.4	29.2	44.2	48.5	74.0
87.5°	16.3	13.3	18.9	20.2	24.3	22.1	14.0	16.1	17.4	26.8
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°
455.9	0°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
456.7	2.5°	457.6	458.2	460.4	461.0	462.5	464.5	465.8	467.0	467.0	468.3
463.6	5°	463.8	465.3	469.8	472.2	476.1	479.9	482.3	485.1	486.8	487.6
474.6	7.5°	475.8	478.2	484.6	488.7	495.4	500.7	504.4	508.2	509.1	511.5
489.8	10°	492.2	494.9	502.2	510.0	517.9	524.6	528.0	530.8	531.9	532.3
509.3	12.5°	510.8	514.9	524.3	533.8	542.2	548.0	548.8	548.2	545.2	542.6
533.4	15°	533.8	537.4	548.0	558.3	566.4	567.5	562.1	558.7	555.0	554.4
560.2	17.5°	561.3	563.2	572.9	582.9	583.6	579.9	572.0	568.8	565.3	563.0
595.2	20°	593.2	592.6	599.5	603.8	599.3	588.1	576.1	570.7	567.3	564.5
638.1	22.5°	631.4	626.5	625.7	624.6	612.6	589.2	572.9	566.0	560.6	556.8
698.0	25°	687.0	668.2	655.1	647.8	620.7	583.4	562.6	547.3	537.2	530.6
771.2	27.5°	756.6	724.8	691.8	673.9	620.7	571.6	537.7	513.0	496.4	489.6
842.0	30°	822.9	789.6	740.9	705.5	619.2	552.2	497.5	463.2	443.9	437.0
902.5	32.5°	879.6	843.3	793.1	740.1	615.6	520.9	447.7	409.7	391.1	382.9
962.4	35°	932.1	893.5	845.4	778.0	605.9	475.0	393.0	364.0	343.2	330.1
1023.4	37.5°	986.0	940.1	895.0	812.4	588.5	421.3	350.9	326.2	301.8	284.2
1088.2	40°	1044.6	989.7	948.0	832.8	560.0	370.2	318.3	295.8	269.8	251.1
1162.9	42.5°	1113.1	1049.1	1007.1	843.3	520.9	334.0	297.1	274.9	250.5	235.2
1242.9	45°	1184.6	1114.6	1060.9	843.1	477.3	317.0	290.2	268.3	241.2	225.4
1325.1	47.5°	1259.5	1183.1	1107.5	829.3	439.6	319.4	286.3	253.9	224.1	208.6
1408.2	50°	1334.6	1258.0	1152.6	803.6	423.5	314.2	271.9	233.7	198.5	184.6
1486.1	52.5°	1409.1	1337.6	1191.4	766.9	407.2	295.1	253.5	207.5	188.0	178.4
1566.6	55°	1484.0	1416.4	1233.7	713.4	366.4	272.8	222.6	197.7	179.6	170.8
1645.4	57.5°	1559.1	1507.4	1273.8	660.0	315.1	245.3	205.6	185.7	171.3	163.8
1711.3	60°	1637.2	1611.5	1315.3	610.8	264.4	210.1	193.2	176.0	161.4	153.0
1774.6	62.5°	1717.7	1726.1	1347.7	547.5	217.9	188.7	182.0	164.4	150.2	142.3
1827.0	65°	1798.8	1836.6	1368.9	459.7	176.6	168.3	170.0	151.7	137.4	130.5
1865.4	67.5°	1860.0	1916.2	1362.9	347.9	144.9	149.0	155.0	138.4	124.9	119.6
1859.1	70°	1866.9	1906.8	1303.7	238.2	121.3	130.1	138.2	125.3	111.4	107.5
1771.6	72.5°	1775.4	1778.0	1138.6	155.6	102.6	114.2	120.6	112.0	98.5	94.7
1549.9	75°	1535.7	1470.4	836.0	102.6	85.9	98.1	104.1	98.1	85.0	85.9
1159.7	77.5°	1163.5	1041.4	507.6	73.0	71.7	82.4	90.6	86.3	75.1	84.4
583.2	80°	599.5	563.4	226.4	54.5	56.7	65.9	74.5	68.9	59.5	56.7
130.3	82.5°	137.4	159.7	89.3	39.1	41.0	47.4	56.9	51.7	42.7	36.1
54.3	85°	48.1	52.6	39.5	24.5	24.0	29.6	38.6	34.6	29.0	23.2
23.0	87.5°	15.2	20.0	14.8	9.9	10.3	13.3	17.8	16.3	13.5	8.8
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>
455.9
468.3
488.1
510.6
531.2
542.6
554.4
563.2
564.7
558.0
533.1
493.0
441.1
387.0
334.4
288.9
254.8
238.2
227.9
210.8
185.4
178.4
170.0
162.5
152.4
142.1
130.3
119.8
107.7
94.4
82.8
74.3
51.7
35.6
24.5
9.2
0.0

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