

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: P939049

Luminaire Tested: **GALN-SB1B-950-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939049
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-950-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

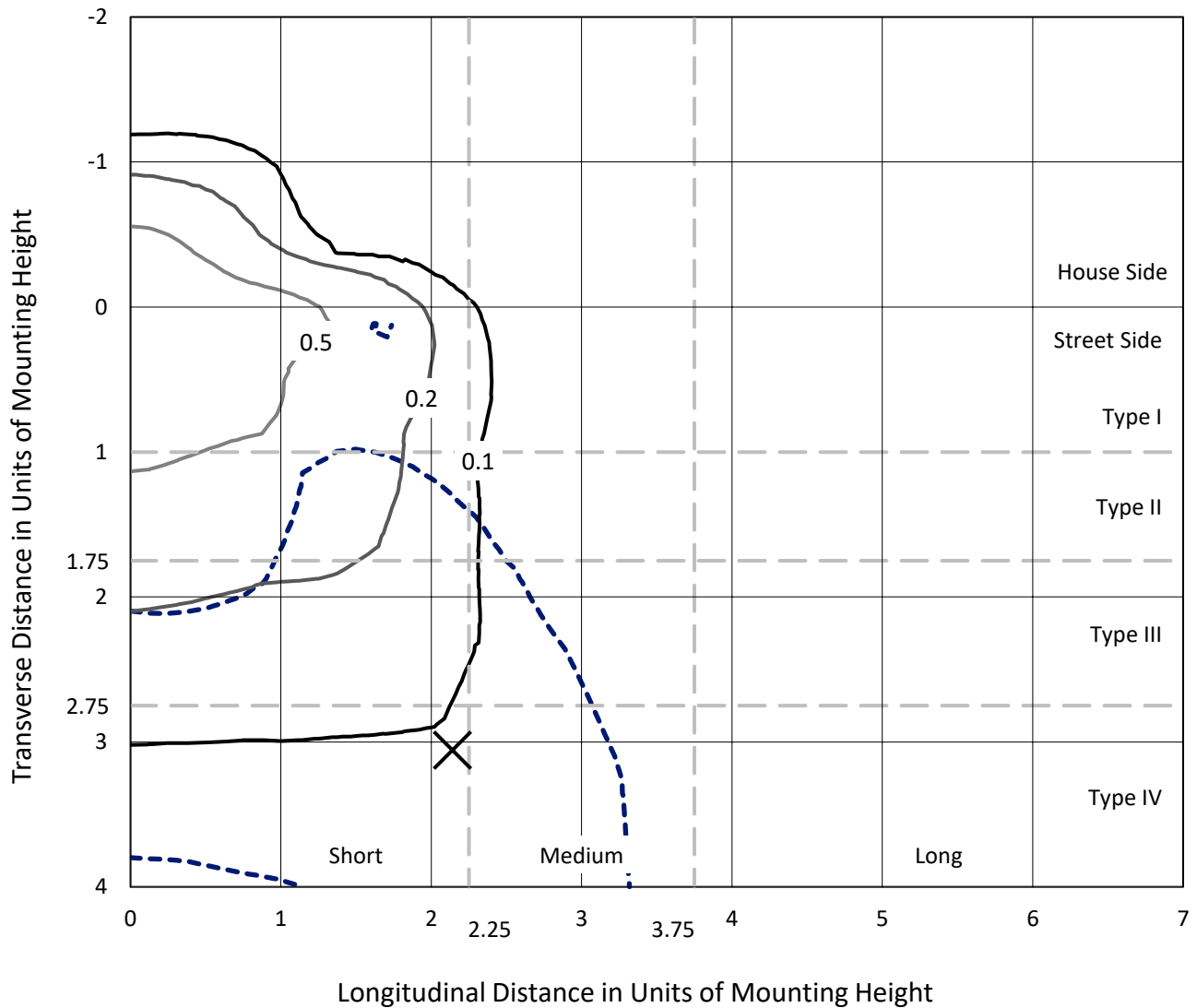
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

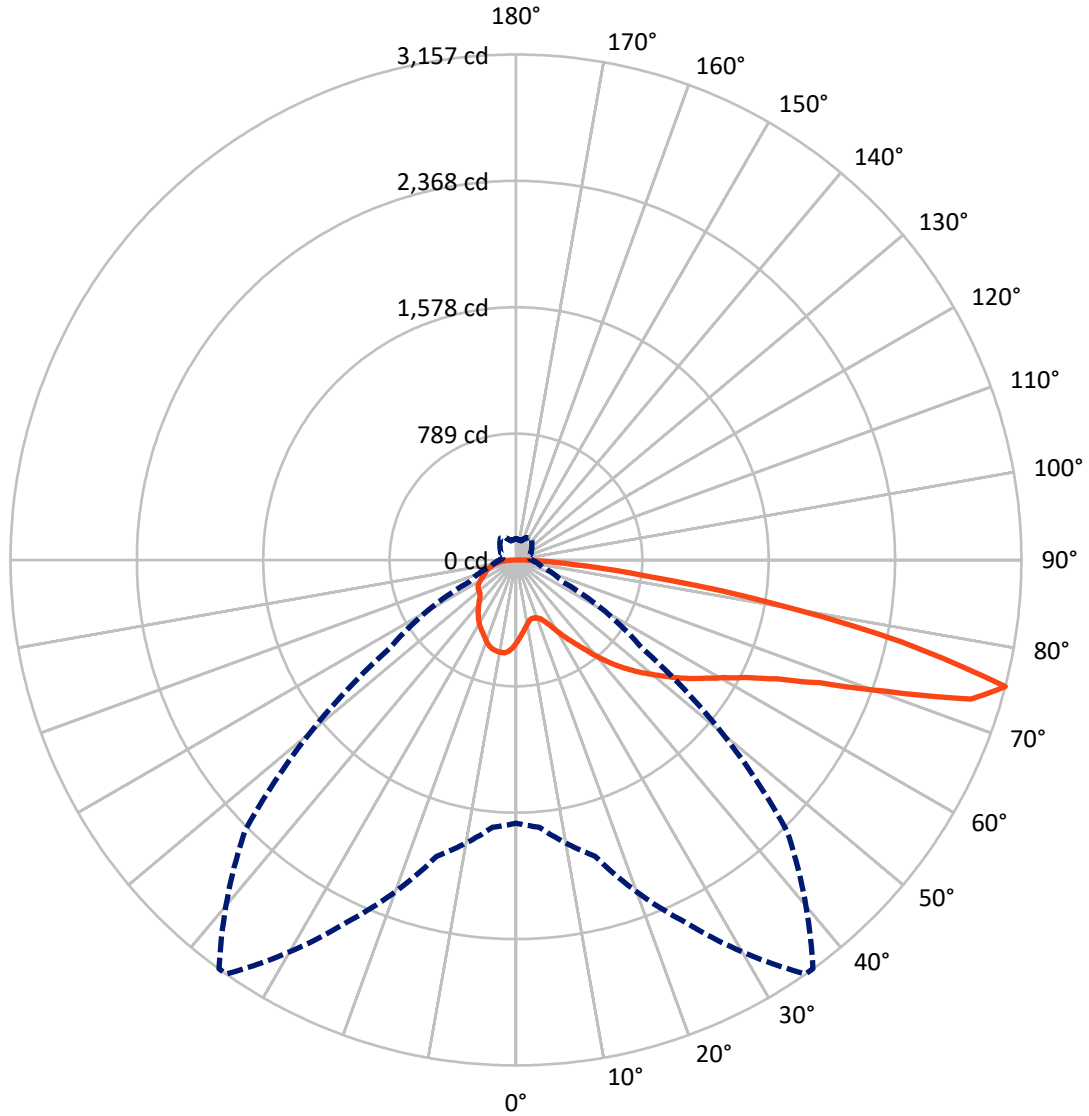
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	921.7	0.0	921.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	2951.3	0.0	2951.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	3873.0	0.0	3873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.3
10°-20°	140.9	3.6
20°-30°	236.7	6.1
30°-40°	367.8	9.5
40°-50°	546.0	14.1
50°-60°	753.8	19.5
60°-70°	914.5	23.6
70°-80°	755.8	19.5
80°-90°	108.7	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°	3873.0	100.0
0°-180°	3873.0	100.0

Coefficient of Utilization



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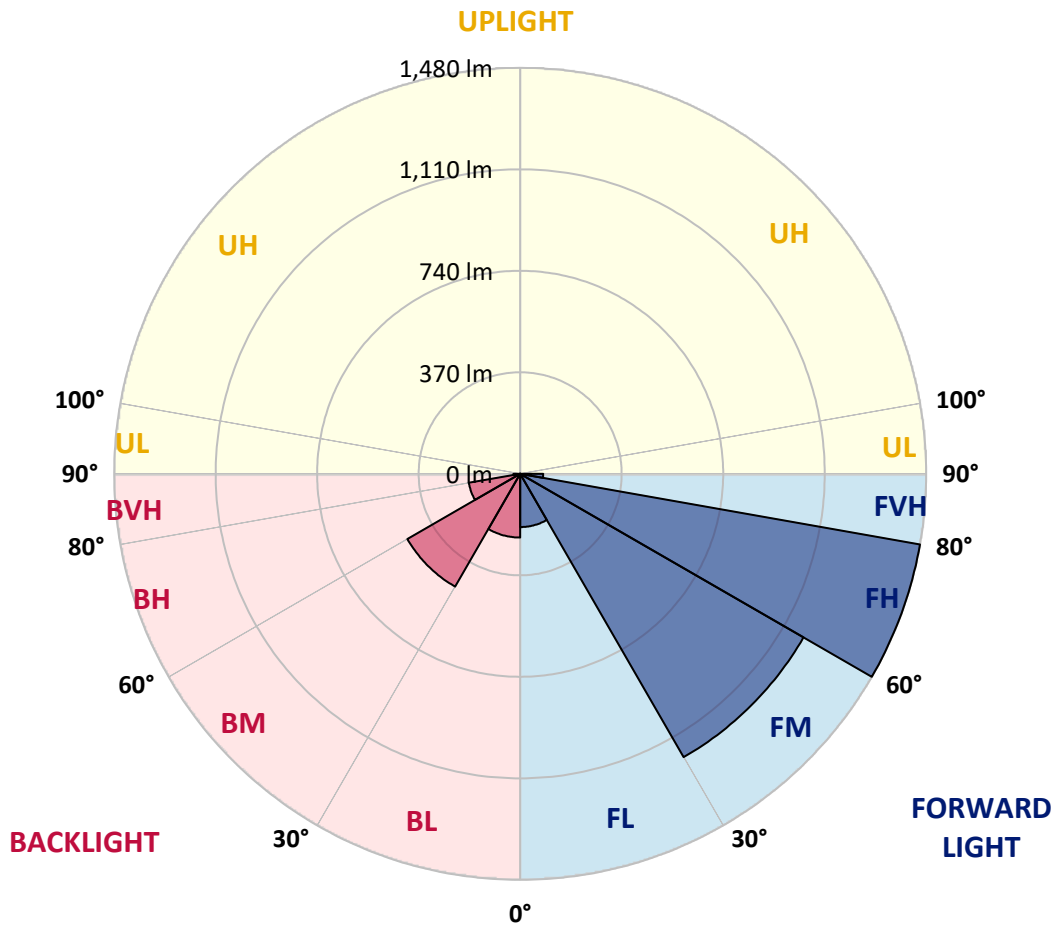
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.2	5.0			
FM (30°-60°)	1192.7	30.8			
FH (60°-80°)	1480.2	38.2			G1/1800
FVH (80°-90°)	84.2	2.2			G1/100
BL (0°-30°)	232.3	6.0	B1/500		
BM (30°-60°)	474.9	12.3	B1/1000		
BH (60°-80°)	190.0	4.9	B1/500		G1/500
BVH (80°-90°)	24.5	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
2.5°	475.9	478.8	480.1	479.5	482.6	482.2	486.6	492.0	499.6	506.9
5°	439.3	442.4	445.1	447.6	453.7	455.6	462.5	473.0	486.8	500.8
7.5°	405.1	407.9	412.0	416.7	426.9	428.8	440.3	456.6	475.9	496.4
10°	377.3	380.0	384.4	389.6	402.4	404.7	419.4	441.1	466.3	492.2
12.5°	365.4	366.2	368.7	373.9	385.0	386.5	402.6	427.5	456.9	489.1
15°	364.7	366.4	366.6	369.3	378.5	379.2	394.0	418.7	451.0	488.5
17.5°	371.0	372.3	370.4	372.1	379.8	380.8	392.6	414.6	449.1	491.2
20°	387.8	388.8	383.2	380.8	386.5	387.3	398.9	417.3	451.0	496.8
22.5°	423.4	424.0	410.2	400.7	401.2	401.6	411.6	428.4	458.3	507.1
25°	478.8	478.4	456.4	438.2	427.7	425.4	432.1	446.4	470.7	520.7
27.5°	543.7	540.6	518.6	491.4	468.6	465.2	463.8	469.8	488.3	538.7
30°	617.0	614.1	590.4	554.8	523.2	517.8	504.0	500.8	514.4	563.2
32.5°	697.4	695.5	667.3	624.1	581.8	575.6	552.3	544.0	554.6	600.3
35°	764.8	763.2	739.7	695.3	643.6	635.9	612.2	602.8	608.2	647.8
37.5°	825.8	824.9	804.8	769.9	716.5	707.1	680.5	677.3	676.3	710.4
40°	882.3	880.2	859.3	840.8	801.3	792.7	769.2	766.5	758.6	787.5
42.5°	944.9	939.5	909.1	900.5	889.8	882.7	868.7	869.1	851.5	874.3
45°	996.0	992.8	961.6	956.6	968.1	965.2	977.4	980.5	946.4	965.4
47.5°	1050.8	1047.9	1021.5	1018.0	1049.2	1050.0	1092.9	1094.0	1038.9	1060.1
50°	1118.5	1114.3	1088.1	1092.5	1127.5	1130.6	1209.1	1202.0	1124.1	1156.2
52.5°	1163.1	1165.6	1159.9	1167.0	1214.8	1217.7	1323.4	1305.2	1208.5	1251.0
55°	1195.9	1201.0	1218.5	1234.9	1306.9	1309.8	1431.3	1403.4	1278.4	1338.9
57.5°	1238.2	1231.1	1264.0	1295.8	1394.4	1402.2	1536.2	1498.1	1340.4	1414.7
60°	1298.9	1293.9	1319.5	1366.6	1492.4	1504.8	1647.1	1583.3	1385.8	1474.8
62.5°	1422.1	1409.5	1413.5	1455.1	1615.9	1632.3	1772.3	1657.6	1408.4	1498.3
65°	1606.1	1584.5	1564.4	1593.3	1789.9	1806.0	1913.7	1716.0	1400.1	1452.8
67.5°	1837.9	1816.5	1791.8	1819.0	2046.2	2059.0	2088.1	1748.9	1334.1	1277.8
70°	2029.0	2021.1	2050.6	2162.6	2455.5	2455.9	2311.7	1721.7	1153.4	906.0
72.5°	2003.7	1998.9	2154.4	2500.7	2971.4	2960.3	2523.4	1515.6	777.0	408.7
75°	1643.8	1675.0	1916.0	2494.7	3156.7	3155.2	2393.8	963.5	321.4	169.4
77.5°	881.5	930.9	1243.9	1841.9	2464.3	2501.4	1682.9	337.1	138.0	108.5
80°	287.5	330.6	495.8	937.8	1601.3	1594.4	721.3	132.3	94.4	76.8
82.5°	122.1	127.1	221.5	442.8	821.8	809.0	229.7	76.0	66.4	52.6
85°	47.7	53.4	97.8	204.8	355.9	348.2	82.9	37.7	42.5	34.3
87.5°	15.7	19.1	35.0	70.1	110.8	106.8	20.3	13.0	18.4	15.7
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°
516.1	0°	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1	516.1
517.6	2.5°	520.5	523.9	527.8	533.7	538.7	542.9	547.3	550.0	551.1	554.2
518.4	5°	524.3	531.6	541.4	551.1	560.5	566.1	571.2	573.7	576.0	577.7
520.7	7.5°	530.6	540.0	555.5	568.0	576.0	580.6	583.9	583.1	583.9	584.4
523.2	10°	536.0	549.2	567.6	579.5	585.6	585.8	585.0	582.1	580.6	580.8
527.0	12.5°	542.5	557.1	577.0	587.1	588.8	584.1	580.6	575.6	573.7	572.8
532.6	15°	551.3	568.0	587.3	591.1	586.9	581.0	574.9	566.8	562.6	559.2
542.3	17.5°	562.0	580.4	595.2	592.5	583.5	573.9	564.0	551.7	543.1	539.6
555.5	20°	576.8	593.4	601.3	589.4	575.8	561.1	544.4	529.3	521.3	517.8
572.2	22.5°	594.8	610.7	607.2	583.9	564.7	541.2	520.3	509.2	505.2	502.7
593.8	25°	616.4	630.0	611.4	576.0	546.5	514.8	498.7	495.2	493.3	491.4
620.2	27.5°	644.4	651.8	614.5	564.3	518.0	486.8	480.9	481.6	480.9	477.8
656.8	30°	681.5	680.0	617.4	545.2	485.3	461.5	461.9	464.6	465.0	462.9
707.9	32.5°	730.3	715.4	618.9	520.5	454.1	439.3	439.7	442.6	444.7	441.1
774.7	35°	789.3	756.7	616.6	489.5	430.1	418.1	415.0	415.8	416.4	413.1
855.7	37.5°	858.2	802.9	606.3	455.2	410.2	397.4	390.7	385.0	381.7	378.5
947.4	40°	933.8	853.4	587.5	421.7	388.0	375.4	365.4	354.7	343.4	339.2
1044.6	42.5°	1012.9	905.3	564.7	389.6	362.4	352.2	341.5	326.0	309.0	300.4
1145.5	45°	1095.0	958.5	542.3	358.0	336.3	331.9	319.5	300.9	282.4	271.6
1246.6	47.5°	1175.4	1008.8	509.4	326.2	311.8	316.6	306.9	289.8	269.3	252.1
1346.9	50°	1252.3	1055.9	455.6	294.0	291.9	312.0	302.8	278.0	254.6	232.6
1445.3	52.5°	1328.5	1094.0	386.7	264.6	281.2	310.7	297.3	270.1	241.4	218.4
1537.8	55°	1393.2	1113.7	320.3	239.5	265.7	300.0	290.8	260.7	222.8	198.3
1601.3	57.5°	1430.0	1097.7	265.1	214.8	244.3	282.4	279.7	240.6	200.6	181.7
1613.6	60°	1414.1	1033.3	219.8	193.3	224.0	263.4	260.5	220.7	183.6	165.8
1547.5	62.5°	1326.4	910.4	184.0	174.4	205.6	243.9	241.2	205.4	170.6	153.5
1371.8	65°	1149.7	740.6	156.2	158.7	187.0	220.5	224.4	192.6	160.4	143.6
1061.3	67.5°	876.9	536.4	134.4	145.1	168.8	197.4	209.0	183.4	151.8	135.9
614.1	70°	499.8	304.6	116.0	131.9	152.6	176.1	197.0	176.1	142.6	129.4
230.1	72.5°	189.5	139.9	100.3	118.7	137.1	158.1	183.8	164.6	131.9	122.1
118.9	75°	101.1	85.2	84.4	103.2	119.3	140.5	167.3	153.3	123.9	129.0
82.3	77.5°	68.9	60.3	70.6	88.4	99.9	121.0	149.7	136.1	107.4	107.0
56.9	80°	47.7	42.7	57.4	71.2	77.3	101.8	130.6	116.8	87.5	81.7
35.2	82.5°	28.7	27.8	42.9	53.2	54.6	78.5	108.2	98.0	71.6	62.4
20.9	85°	15.7	16.5	27.4	31.2	31.8	54.9	84.8	75.8	55.1	46.3
7.5	87.5°	4.4	5.7	10.0	12.4	15.3	28.5	50.5	45.0	27.6	19.3
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>
516.1
554.0
578.1
585.0
581.2
572.4
560.3
539.8
517.4
503.1
491.4
478.4
464.0
442.8
415.4
380.6
341.1
301.5
270.7
250.2
230.7
215.9
196.2
179.2
163.3
150.7
140.9
133.4
127.7
120.4
133.2
98.6
78.1
62.8
46.7
19.3
0.0

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