

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: P945478

Luminaire Tested: **GALN-SB1B-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945478
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-SB1B-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4023 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 III - Medium
BUG Rating: B1 - U0 - G1

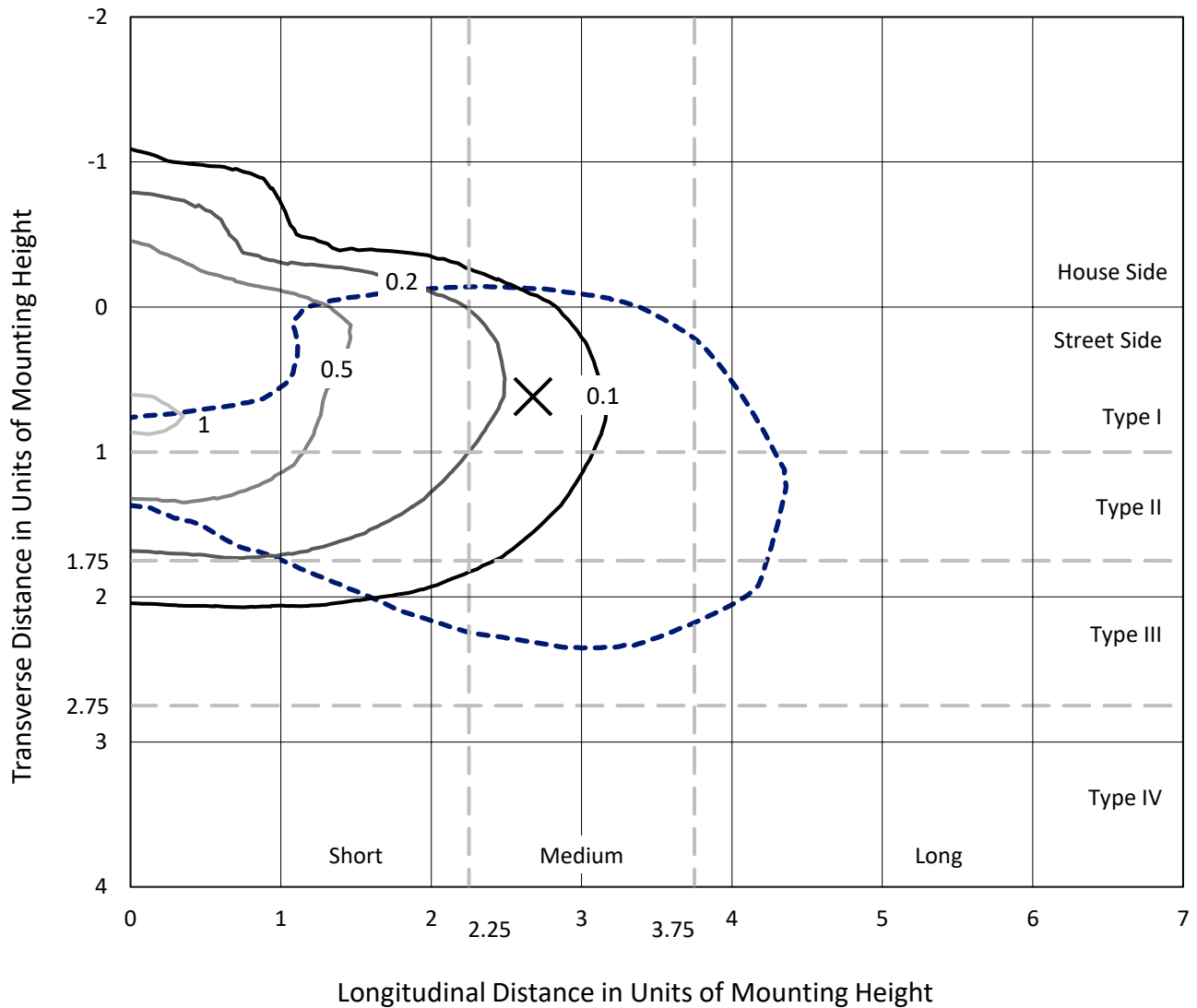
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

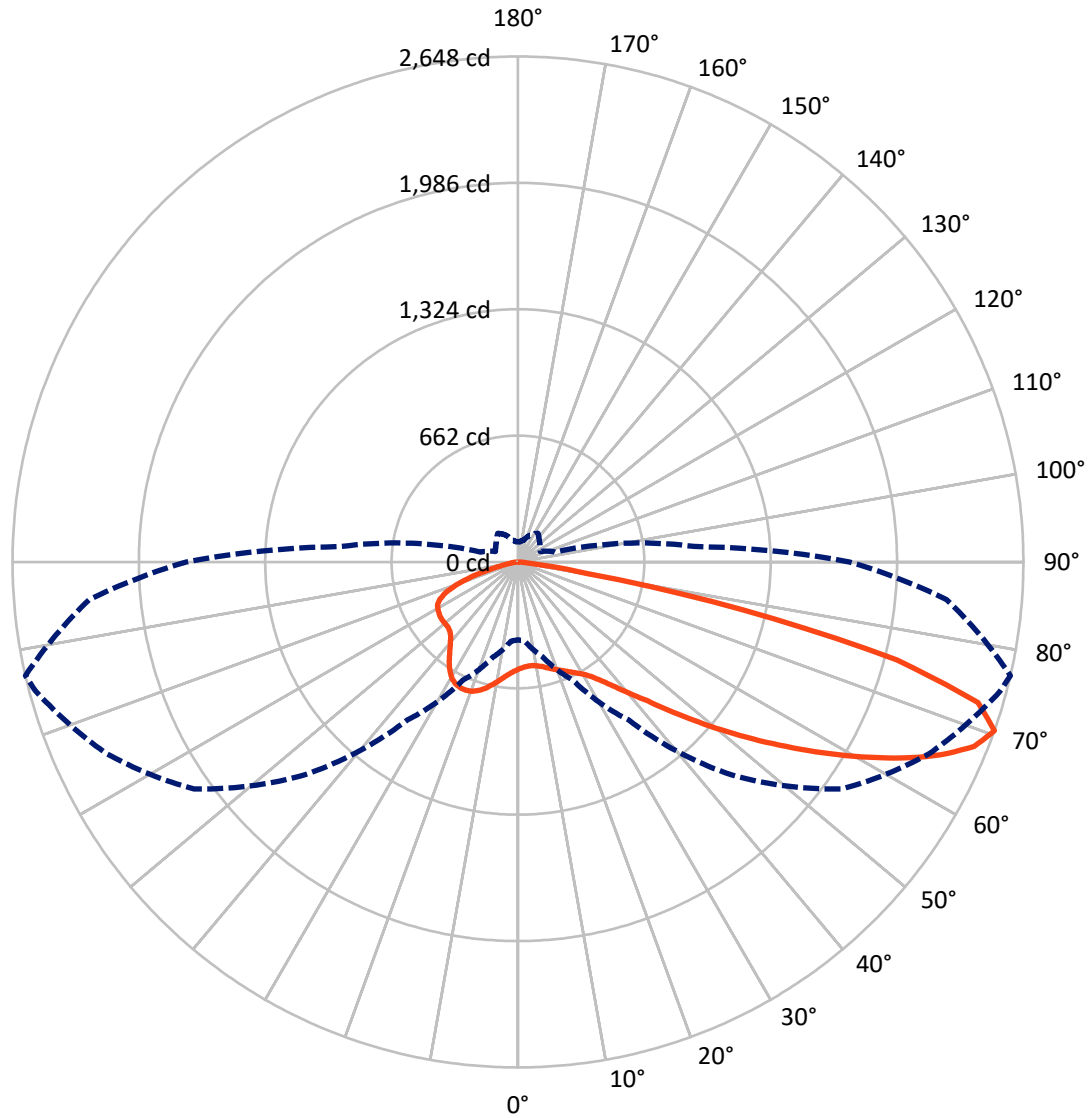
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	881.0	0.0	881.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3142.0	0.0	3142.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	4023.0	0.0	4023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	154.5	3.8
20°-30°	264.2	6.6
30°-40°	424.9	10.6
40°-50°	663.3	16.5
50°-60°	886.0	22.0
60°-70°	944.3	23.5
70°-80°	581.3	14.5
80°-90°	50.9	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°	4023.0	100.0
0°-180°	4023.0	100.0

Coefficient of Utilization



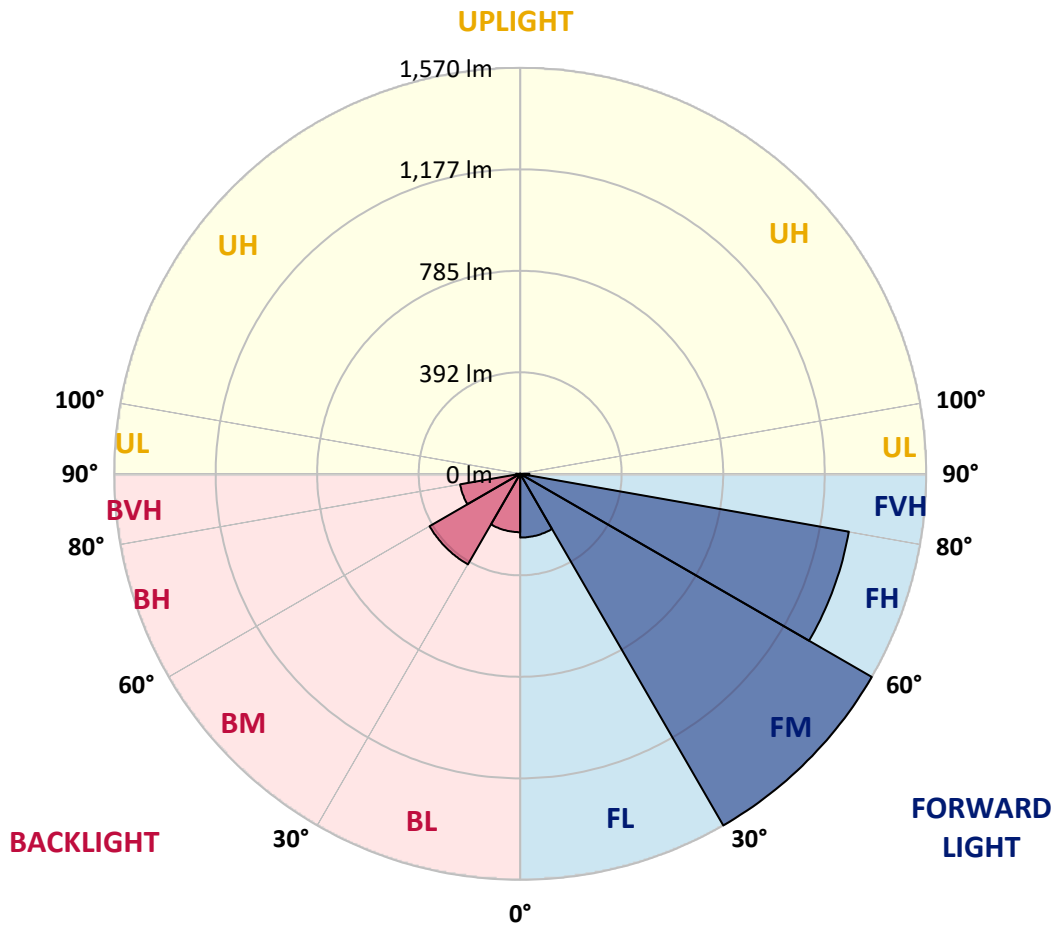
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.5	6.1			
FM (30°-60°)	1569.7	39.0			
FH (60°-80°)	1290.2	32.1			G1/1800
FVH (80°-90°)	35.6	0.9			G1/100
BL (0°-30°)	225.7	5.6	B1/500		
BM (30°-60°)	404.5	10.1	B1/1000		
BH (60°-80°)	235.4	5.9	B1/500		G1/500
BVH (80°-90°)	15.3	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°	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2
2.5°	517.4	517.2	519.8	520.7	525.6	529.1	535.7	542.7	551.8	552.8
5°	487.5	487.5	490.6	493.9	500.3	507.3	517.4	529.5	545.2	547.6
7.5°	462.1	463.8	466.5	472.9	480.3	490.4	505.8	523.1	543.7	547.6
10°	441.7	443.6	446.9	452.0	463.2	477.2	497.4	519.6	547.2	553.4
12.5°	435.4	437.2	439.1	443.0	453.3	469.8	493.9	521.3	555.7	561.9
15°	450.2	452.5	451.0	450.0	455.3	470.4	495.5	527.2	566.2	575.0
17.5°	484.4	485.2	481.9	472.2	471.4	479.4	503.3	535.5	579.4	589.1
20°	539.6	538.2	531.4	512.2	501.3	499.6	516.7	547.9	593.0	603.3
22.5°	614.6	613.0	599.4	569.1	544.8	528.7	536.1	563.9	608.2	619.8
25°	708.1	705.9	685.9	644.7	607.0	567.2	562.5	585.1	627.0	637.7
27.5°	817.3	815.5	793.9	739.5	685.1	620.0	595.2	610.1	646.5	658.7
30°	934.8	940.1	901.8	843.3	774.5	688.8	639.3	640.8	671.9	682.8
32.5°	1072.8	1082.1	1036.0	961.8	867.8	763.6	695.0	683.6	708.8	717.8
35°	1209.6	1220.2	1181.8	1099.8	991.7	851.8	753.1	732.9	757.8	767.7
37.5°	1327.9	1341.9	1322.1	1250.9	1124.1	958.1	828.9	790.8	818.2	830.5
40°	1421.2	1442.7	1441.2	1396.7	1280.3	1087.1	925.1	862.3	893.2	906.6
42.5°	1497.1	1515.6	1531.7	1529.4	1443.3	1233.5	1038.2	955.2	978.7	994.1
45°	1549.4	1569.2	1603.8	1641.1	1600.1	1390.3	1167.8	1065.4	1086.8	1110.1
47.5°	1596.2	1618.6	1663.5	1722.7	1733.2	1547.8	1309.8	1193.8	1213.4	1237.5
50°	1600.3	1619.7	1689.3	1773.2	1827.8	1699.0	1462.2	1337.8	1356.1	1381.9
52.5°	1500.8	1531.3	1652.8	1771.7	1871.2	1825.5	1613.7	1487.6	1508.2	1539.1
55°	1164.9	1209.6	1545.9	1716.5	1855.8	1907.3	1757.7	1646.9	1673.2	1705.6
57.5°	1003.4	1023.0	1227.2	1615.9	1785.3	1928.5	1879.3	1807.8	1850.2	1885.7
60°	901.8	918.1	1038.8	1459.6	1692.6	1894.9	1973.2	1957.8	2031.1	2073.4
62.5°	793.0	808.5	918.3	1218.7	1573.9	1839.1	2032.6	2096.2	2216.5	2262.7
65°	685.1	698.3	803.5	1024.0	1423.1	1783.3	2063.3	2215.9	2388.2	2436.0
67.5°	564.7	575.7	675.2	863.9	1239.7	1706.8	2078.5	2310.1	2537.6	2578.6
70°	407.5	416.0	518.8	683.2	1009.6	1575.4	2072.3	2376.8	2615.0	2647.8
72.5°	192.6	200.3	321.0	443.6	713.1	1319.5	1947.3	2323.9	2536.3	2520.0
75°	102.8	109.4	184.4	243.3	376.6	904.5	1593.5	2001.9	2129.8	2050.7
77.5°	69.6	74.8	114.1	146.1	172.0	429.4	1024.2	1386.0	1333.5	1202.8
80°	55.2	60.6	93.5	98.9	83.2	155.1	423.2	641.6	460.9	368.6
82.5°	42.4	48.4	78.7	71.7	45.3	63.7	123.2	202.9	118.1	89.8
85°	26.0	32.3	61.8	45.7	25.5	29.1	41.8	56.5	36.1	30.1
87.5°	13.2	18.5	31.3	16.7	11.5	6.8	11.1	11.1	9.5	8.2
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°
561.2	0°	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2	561.2
558.4	2.5°	563.3	567.4	574.4	581.0	586.2	591.1	596.1	598.7	599.6	602.9
561.5	5°	569.9	577.5	591.1	603.9	611.9	616.9	620.4	622.4	622.9	623.9
569.9	7.5°	582.1	594.2	613.2	625.9	631.9	631.5	630.1	624.9	622.9	621.0
582.3	10°	599.2	615.2	638.5	647.4	643.7	633.8	621.0	606.0	598.9	592.2
599.2	12.5°	620.4	640.8	663.6	663.2	644.9	619.6	589.9	566.8	552.2	541.7
620.0	15°	646.1	669.6	687.1	673.1	632.9	587.4	543.9	513.9	500.7	489.1
641.0	17.5°	672.7	697.8	705.9	670.0	602.9	539.8	490.6	466.9	453.9	447.7
663.6	20°	698.7	723.6	717.0	652.3	557.1	485.8	441.9	429.0	426.3	427.7
685.7	22.5°	726.1	748.3	719.3	618.1	498.8	430.6	406.5	406.9	412.9	417.2
708.8	25°	754.1	769.1	713.3	568.7	436.2	390.0	384.1	390.6	402.4	410.8
734.7	27.5°	781.1	787.7	700.3	507.5	382.4	361.0	362.0	375.6	393.3	405.1
766.3	30°	811.6	804.2	675.4	438.7	345.1	336.0	344.7	360.6	378.3	388.8
806.0	32.5°	846.0	818.4	635.8	375.0	318.7	316.1	330.3	340.6	348.4	351.5
858.8	35°	888.8	838.4	585.1	330.3	295.0	301.4	315.0	309.9	306.8	305.1
929.6	37.5°	944.5	865.4	525.8	301.2	275.9	290.9	296.5	280.4	268.3	262.3
1015.6	40°	1011.4	904.9	468.7	278.8	263.7	281.9	272.2	252.8	237.4	228.9
1112.2	42.5°	1085.8	946.3	420.7	261.9	256.9	274.4	254.2	231.2	206.2	203.6
1227.4	45°	1163.9	989.0	388.0	248.9	253.6	268.1	243.9	206.7	188.9	199.9
1343.0	47.5°	1242.0	1028.1	368.2	239.2	252.0	260.8	234.9	193.1	180.5	196.4
1466.8	50°	1328.9	1063.2	359.3	232.2	250.1	258.0	221.3	189.6	171.6	182.1
1594.9	52.5°	1415.3	1090.3	352.7	225.2	247.5	255.7	214.7	185.4	160.9	161.5
1723.9	55°	1501.4	1108.1	345.5	215.9	241.5	250.7	214.1	180.9	152.9	150.0
1860.3	57.5°	1593.3	1118.2	336.7	205.6	231.2	238.2	213.5	177.4	150.4	145.7
1999.8	60°	1686.8	1133.0	325.1	193.1	217.4	223.1	212.0	176.2	149.0	140.9
2131.2	62.5°	1770.7	1138.1	311.3	181.1	199.6	208.3	208.9	175.1	145.1	131.2
2240.4	65°	1825.7	1115.9	287.2	167.5	180.5	193.1	202.9	171.6	138.0	124.2
2294.4	67.5°	1823.4	1052.4	249.5	150.0	161.9	176.2	194.3	165.7	129.6	115.6
2253.6	70°	1738.5	927.2	201.7	129.6	141.5	158.0	183.2	156.8	119.5	106.1
2003.9	72.5°	1491.1	725.7	146.5	105.7	117.9	139.3	168.7	146.1	109.2	97.7
1481.0	75°	1065.2	459.3	99.3	81.2	91.7	118.1	150.8	133.5	99.7	98.1
741.7	77.5°	544.1	219.4	65.7	59.3	63.9	93.1	126.7	119.3	101.2	81.0
211.0	80°	177.0	81.0	41.4	40.4	42.4	62.0	98.1	97.9	76.6	55.0
51.1	82.5°	56.5	34.8	27.0	26.0	24.9	38.9	68.4	77.5	51.7	34.8
18.3	85°	22.5	20.8	15.9	14.6	10.5	18.3	35.9	51.5	38.5	25.1
4.7	87.5°	8.2	8.2	4.3	3.1	2.3	6.2	9.7	15.5	22.0	13.0
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>
561.2
604.7
625.5
621.4
590.1
539.2
487.9
449.6
427.1
418.3
413.1
408.0
391.3
353.1
306.8
263.7
229.5
206.2
205.6
203.8
190.0
165.9
152.1
146.3
141.5
131.2
124.2
116.2
107.3
97.0
92.5
72.1
48.6
34.6
25.8
12.8
0.0

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