

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: P939554

Luminaire Tested: **GALN-SB2A-950-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4557 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

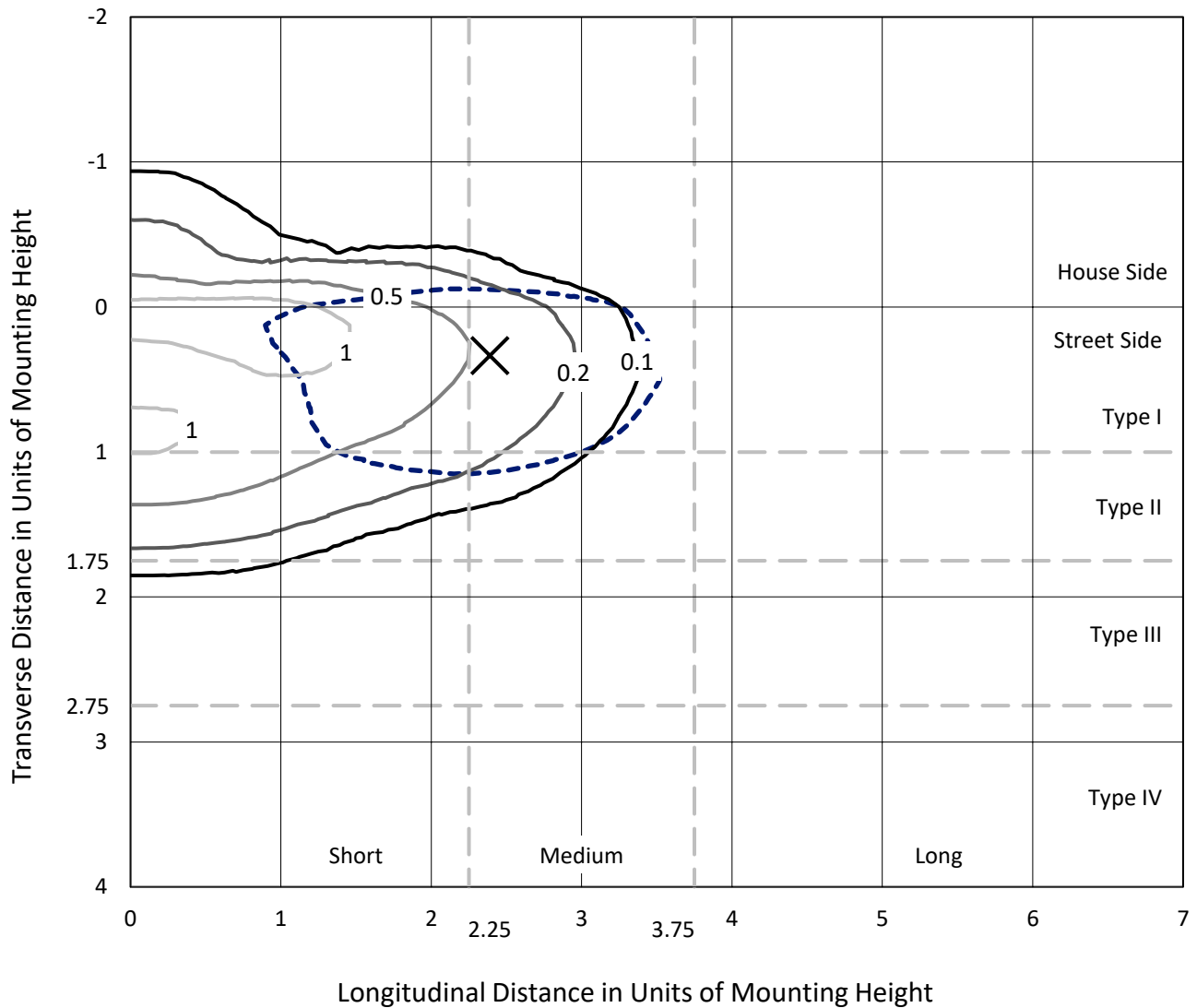
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

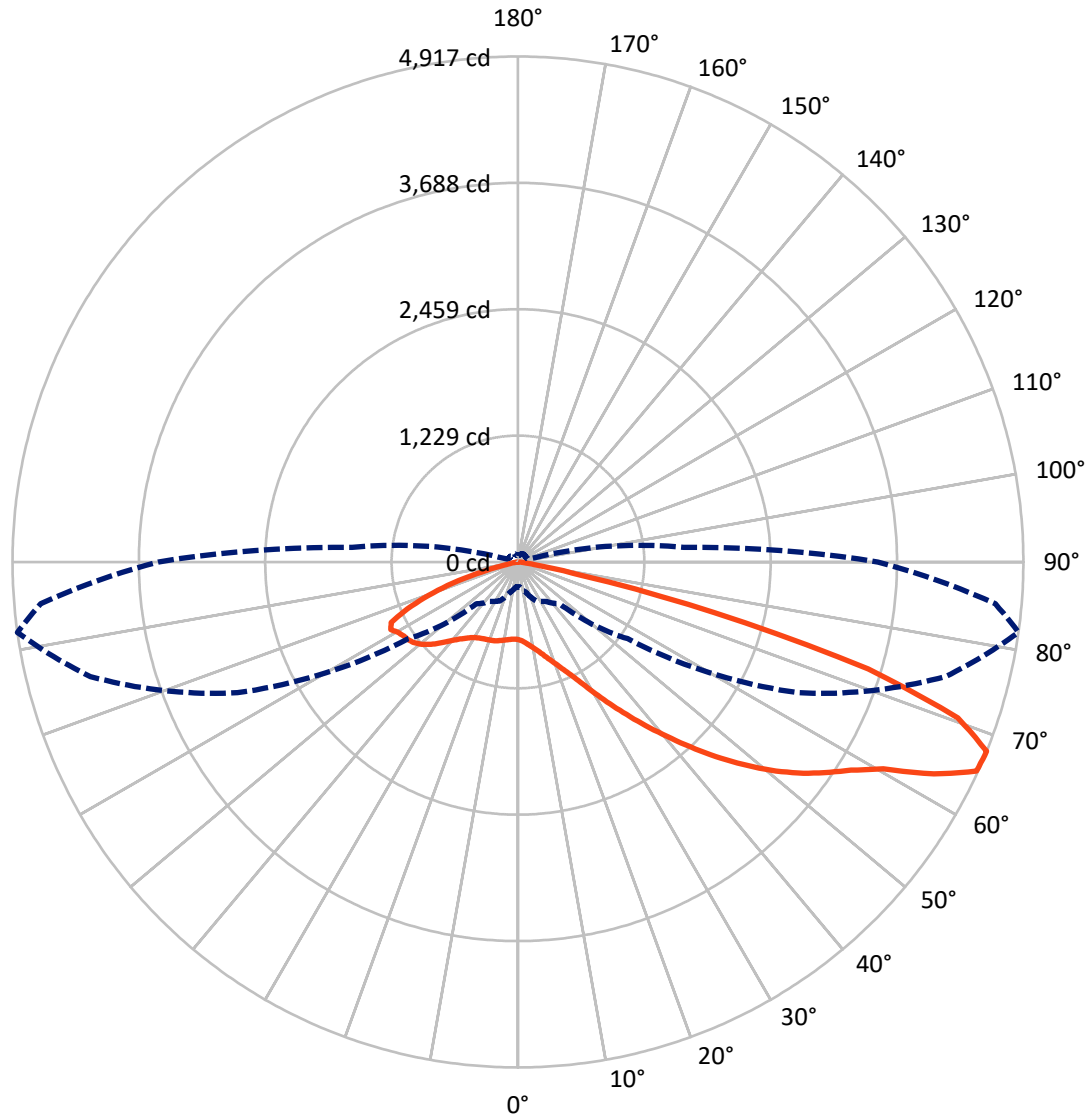
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	825.5	0.0	825.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3731.5	0.0	3731.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	4557.0	0.0	4557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	1.5
10°-20°	174.8	3.8
20°-30°	279.9	6.1
30°-40°	495.0	10.9
40°-50°	867.3	19.0
50°-60°	1156.8	25.4
60°-70°	1076.9	23.6
70°-80°	413.3	9.1
80°-90°	25.7	0.6
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°	4557.0	100.0
0°-180°	4557.0	100.0

Coefficient of Utilization



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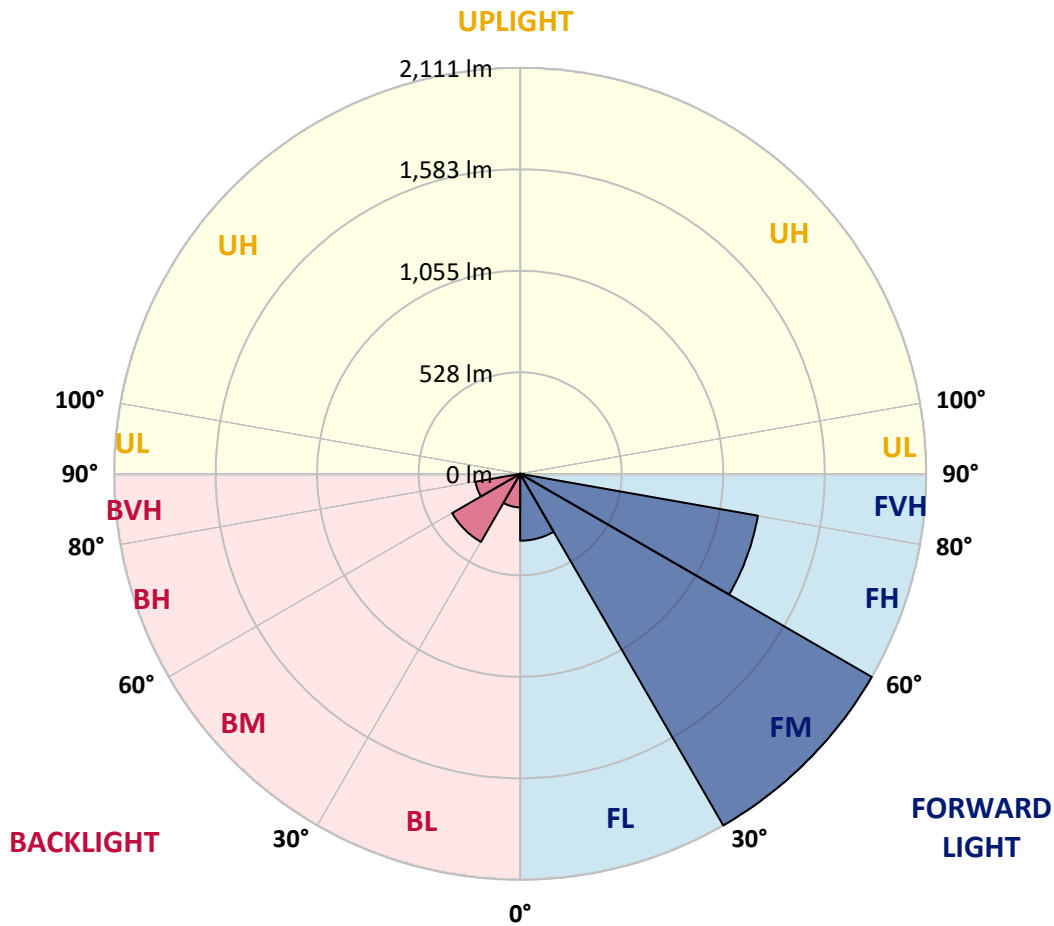
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.6	7.6			
FM (30°-60°)	2110.6	46.3			
FH (60°-80°)	1254.6	27.5			G1/1800
FVH (80°-90°)	18.7	0.4			G1/100
BL (0°-30°)	174.3	3.8	B1/500		
BM (30°-60°)	408.5	9.0	B1/1000		
BH (60°-80°)	235.6	5.2	B1/500		G1/500
BVH (80°-90°)	7.0	0.2			G0/10
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
2.5°	797.9	802.5	799.9	798.6	796.3	793.0	790.4	782.2	773.6	768.1
5°	814.0	818.6	818.3	819.6	821.2	822.2	821.5	812.4	800.2	790.7
7.5°	800.2	805.5	809.7	816.3	827.8	839.9	845.8	843.9	831.4	818.3
10°	761.2	766.8	776.9	792.3	816.6	842.9	864.9	875.0	867.1	852.7
12.5°	689.7	695.2	715.2	748.7	789.4	835.0	877.0	904.2	906.2	891.8
15°	609.3	614.8	636.2	678.2	740.2	813.3	883.6	935.1	952.5	940.0
17.5°	559.4	564.3	580.4	614.2	678.8	770.0	881.3	967.9	1007.6	997.7
20°	544.3	548.6	556.1	579.7	633.5	725.1	866.2	998.7	1067.0	1061.4
22.5°	560.4	564.3	566.6	577.1	610.9	695.6	847.1	1030.2	1135.9	1136.5
25°	597.5	601.4	598.8	605.3	620.1	686.4	839.9	1067.3	1222.5	1229.7
27.5°	658.5	658.8	652.6	652.2	654.5	700.1	847.5	1107.0	1331.7	1345.2
30°	780.9	775.9	752.0	726.1	714.3	741.5	868.5	1153.9	1460.7	1484.6
32.5°	969.5	962.3	918.3	856.3	794.0	808.1	906.2	1207.4	1601.1	1644.4
35°	1174.2	1172.3	1126.3	1034.1	925.2	902.9	967.5	1277.6	1754.3	1823.2
37.5°	1364.5	1363.6	1337.3	1228.7	1096.2	1035.1	1066.0	1369.5	1918.4	2018.1
40°	1538.4	1541.4	1515.1	1418.0	1284.5	1204.8	1199.8	1483.0	2100.8	2230.4
42.5°	1688.7	1692.0	1665.4	1593.5	1470.5	1392.4	1364.2	1622.1	2278.9	2458.4
45°	1790.7	1811.1	1807.1	1749.7	1661.5	1580.4	1561.7	1796.6	2482.0	2700.2
47.5°	1819.6	1838.3	1867.8	1875.7	1821.9	1742.2	1764.5	2006.9	2687.4	2942.3
50°	1748.4	1765.8	1827.1	1908.8	1946.2	1921.6	1961.7	2232.3	2897.7	3183.8
52.5°	1608.0	1625.7	1703.1	1832.4	1985.0	2062.4	2159.5	2454.5	3101.5	3412.5
55°	1404.9	1423.6	1523.0	1669.3	1911.1	2120.5	2324.5	2676.2	3288.1	3618.2
57.5°	1128.6	1142.4	1245.8	1450.5	1725.4	2062.7	2446.3	2918.4	3464.0	3820.3
60°	735.6	747.7	867.8	1096.2	1417.7	1869.8	2470.5	3188.4	3697.6	4083.1
62.5°	489.2	497.4	568.6	736.2	998.4	1499.4	2328.5	3404.0	4040.1	4540.5
65°	335.6	343.8	415.0	531.8	645.0	991.8	1920.0	3375.4	4350.5	4903.7
67.5°	239.5	246.4	306.8	417.0	466.9	576.1	1301.5	3010.6	4305.9	4917.4
70°	171.6	175.5	225.4	324.8	371.1	346.1	723.8	2302.6	3770.1	4540.8
72.5°	120.1	121.4	156.5	247.4	298.9	252.6	344.5	1535.1	2851.5	3564.1
75°	81.4	83.0	105.3	181.4	239.8	192.9	182.4	823.2	1673.9	1972.8
77.5°	49.9	50.5	67.9	124.0	179.5	147.0	117.5	348.8	647.7	635.8
80°	28.2	28.2	43.3	77.1	122.4	94.8	82.4	148.3	205.1	180.1
82.5°	15.7	16.1	31.5	47.9	81.0	56.1	45.3	68.6	88.6	78.4
85°	6.6	7.2	19.4	22.6	38.7	27.9	18.4	28.9	32.8	29.2
87.5°	0.7	1.0	5.9	4.3	4.6	5.6	2.6	5.6	4.6	4.6
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°
754.9	0°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
766.1	2.5°	759.9	754.9	742.5	728.0	709.0	699.8	687.4	678.8	671.6	672.3
785.1	5°	774.6	762.2	734.3	699.5	656.2	625.3	592.5	569.9	551.5	547.6
811.4	7.5°	795.0	775.3	726.4	663.7	590.6	535.1	485.6	453.8	431.1	423.9
843.2	10°	821.2	792.7	716.2	618.8	513.5	442.9	389.8	364.8	349.4	344.2
880.6	12.5°	851.7	812.7	702.8	564.0	434.1	366.2	332.4	319.9	315.0	313.3
926.5	15°	890.1	837.6	682.4	499.0	366.8	319.2	304.8	303.2	303.8	303.2
981.7	17.5°	935.7	864.9	649.3	432.1	321.5	295.3	290.0	291.3	293.0	292.7
1043.3	20°	985.6	891.8	607.0	372.7	290.7	278.2	275.3	276.6	277.9	277.2
1114.5	22.5°	1042.3	920.6	560.1	326.5	270.0	262.5	259.2	259.5	259.5	258.2
1204.8	25°	1110.3	952.5	510.8	293.6	254.3	248.4	244.4	243.1	241.1	237.2
1314.3	27.5°	1191.3	986.2	463.6	270.7	241.8	236.2	231.6	228.4	223.4	216.9
1445.9	30°	1282.5	1027.3	423.6	256.2	232.0	226.4	221.1	216.2	209.0	200.8
1597.2	32.5°	1389.8	1071.2	394.4	246.7	223.1	217.2	211.0	205.1	197.2	189.0
1767.1	35°	1517.8	1124.4	377.3	240.2	216.2	208.3	201.4	194.9	189.0	181.8
1951.8	37.5°	1656.5	1180.8	372.1	236.9	211.6	199.5	191.6	187.0	186.4	182.1
2151.6	40°	1808.4	1247.7	376.0	234.9	206.7	190.9	182.4	181.4	183.1	175.5
2365.2	42.5°	1969.2	1327.1	382.6	232.6	199.8	182.4	174.2	174.2	172.9	162.4
2590.9	45°	2143.1	1418.7	389.1	227.0	191.6	173.9	167.7	165.4	159.8	149.6
2818.0	47.5°	2318.3	1511.8	394.0	216.9	181.8	166.7	161.1	155.8	147.6	138.5
3040.8	50°	2484.6	1595.5	388.8	201.8	170.6	159.8	153.9	146.7	137.8	131.6
3251.7	52.5°	2633.3	1668.0	366.5	184.1	158.8	152.6	147.3	139.8	132.5	126.0
3442.0	55°	2762.5	1726.8	327.1	167.3	148.3	146.3	141.1	131.6	121.7	116.1
3630.7	57.5°	2886.6	1771.4	277.9	153.5	138.8	139.4	131.6	123.0	113.8	107.9
3884.9	60°	3051.6	1831.1	228.0	140.8	128.6	130.6	122.1	115.8	104.3	96.8
4321.0	62.5°	3315.4	1923.9	181.1	125.0	116.8	117.5	113.8	106.3	92.5	83.7
4644.1	65°	3524.7	1889.8	142.7	107.9	103.3	104.3	104.3	96.1	81.4	71.2
4661.5	67.5°	3501.1	1618.2	113.8	91.2	90.6	91.2	93.5	86.6	72.2	64.0
4306.5	70°	3225.1	1287.1	91.2	75.8	78.7	77.1	83.7	79.1	65.0	56.8
3338.7	72.5°	2631.6	927.2	69.6	62.7	60.4	63.0	75.5	71.2	54.1	44.9
1768.4	75°	1537.8	494.8	51.8	49.5	43.6	52.5	66.9	60.7	41.3	33.1
542.0	77.5°	500.7	172.6	38.1	36.4	32.5	42.3	57.1	51.2	33.8	26.2
158.8	80°	134.2	52.2	25.9	24.0	21.0	31.5	45.3	40.7	24.3	17.1
68.2	82.5°	53.8	22.0	15.1	13.5	11.5	21.7	35.8	32.8	18.0	10.8
21.3	85°	17.4	7.2	5.6	4.3	5.2	13.5	21.3	22.3	12.8	5.6
3.3	87.5°	2.3	1.0	1.0	1.3	1.0	2.3	6.6	6.2	3.6	0.7
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>
754.9
665.7
538.7
416.7
340.2
312.3
302.8
292.0
276.9
257.6
236.6
216.2
200.1
189.3
181.1
181.8
175.9
162.4
149.3
138.1
130.6
125.3
115.5
107.3
95.8
83.0
70.2
62.7
55.8
44.0
32.2
25.3
16.7
10.8
4.3
0.0
0.0

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