

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: P939544

Luminaire Tested: **GALN-SB2A-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939544
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 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: 4747 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

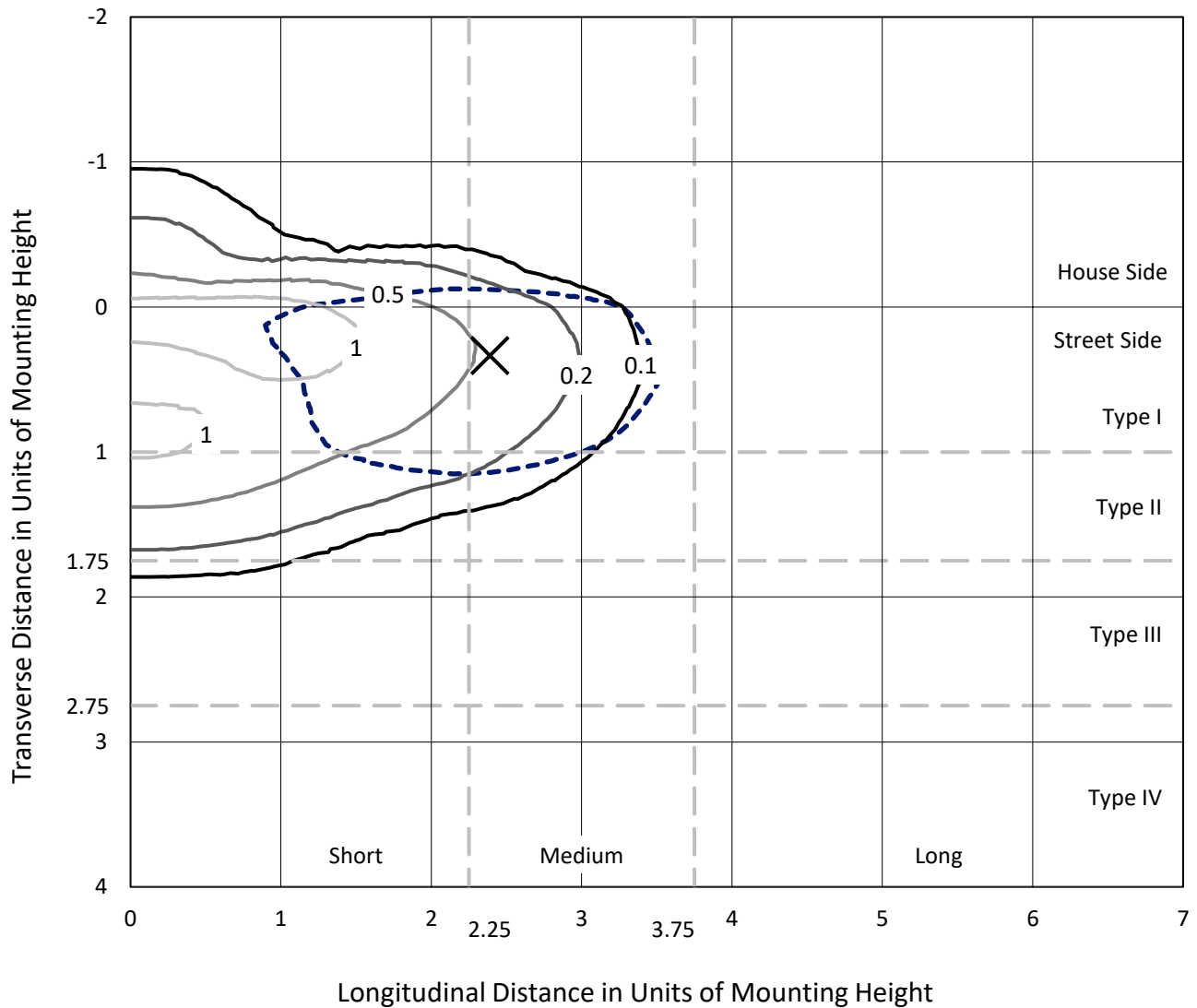
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

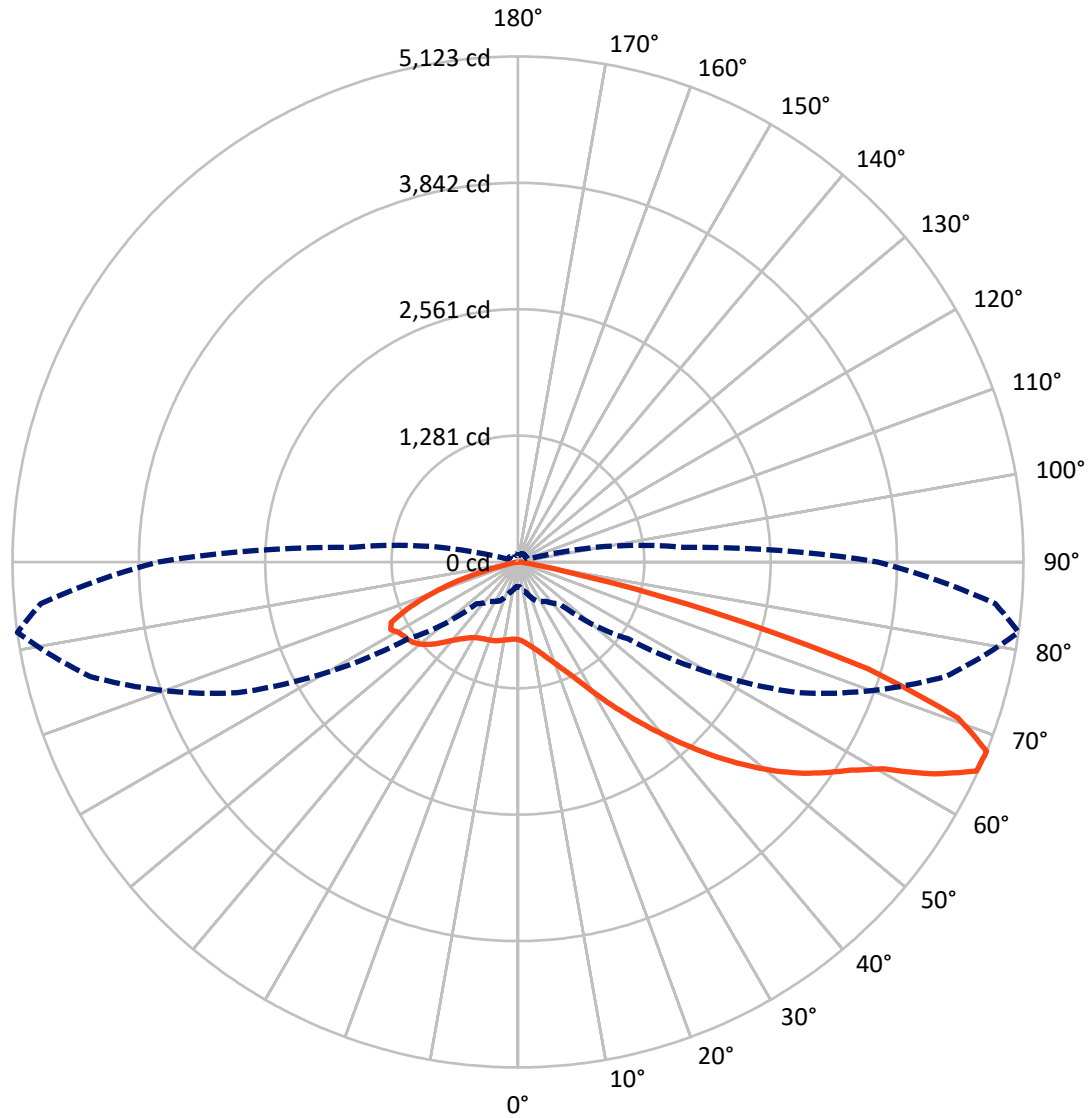
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	859.9	0.0	859.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3887.1	0.0	3887.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	4747.0	0.0	4747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.5
10°-20°	182.1	3.8
20°-30°	291.6	6.1
30°-40°	515.7	10.9
40°-50°	903.5	19.0
50°-60°	1205.0	25.4
60°-70°	1121.8	23.6
70°-80°	430.5	9.1
80°-90°	26.7	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°	4747.0	100.0
0°-180°	4747.0	100.0

Coefficient of Utilization



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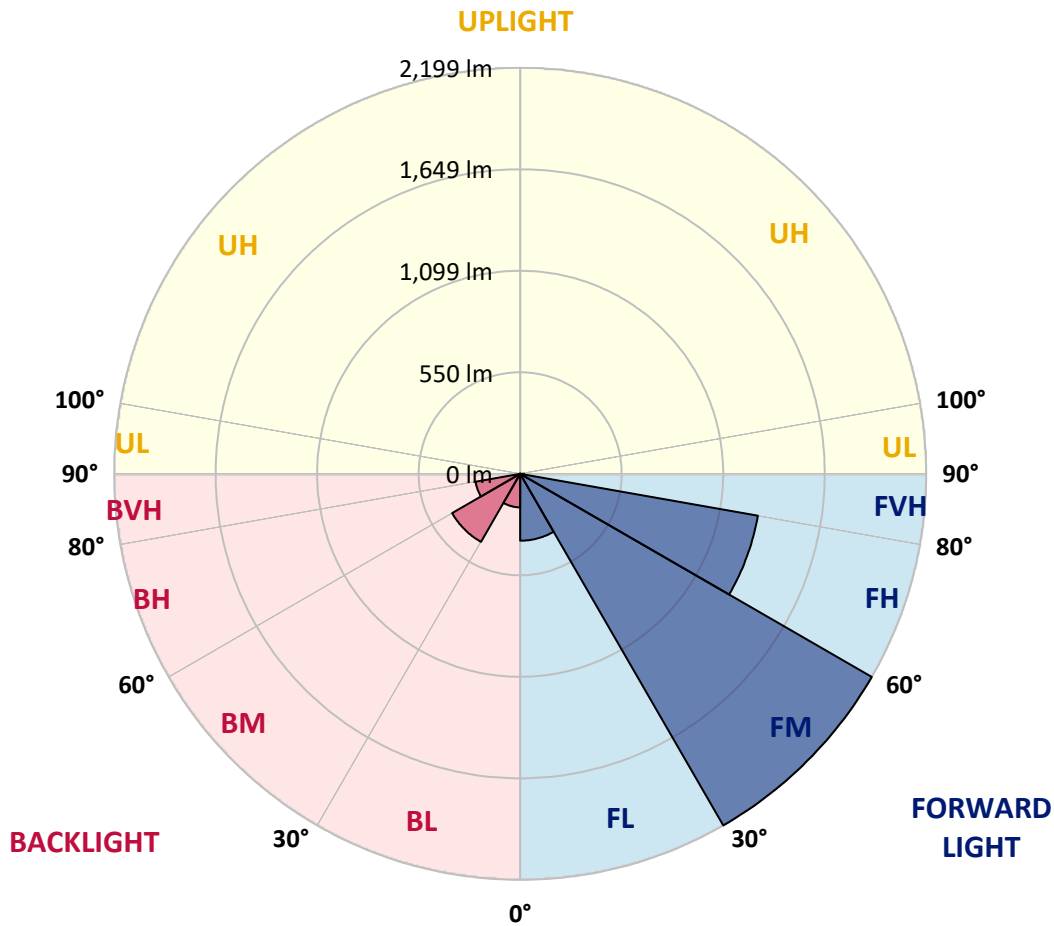
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.1	7.6			
FM (30°-60°)	2198.6	46.3			
FH (60°-80°)	1306.9	27.5			G1/1800
FVH (80°-90°)	19.4	0.4			G1/100
BL (0°-30°)	181.6	3.8	B1/500		
BM (30°-60°)	425.5	9.0	B1/1000		
BH (60°-80°)	245.4	5.2	B1/500		G1/500
BVH (80°-90°)	7.3	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°	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4
2.5°	831.2	836.0	833.2	831.9	829.5	826.1	823.3	814.8	805.9	800.1
5°	847.9	852.7	852.4	853.7	855.5	856.5	855.8	846.2	833.6	823.7
7.5°	833.6	839.1	843.5	850.3	862.3	874.9	881.1	879.0	866.1	852.4
10°	792.9	798.7	809.3	825.4	850.7	878.0	900.9	911.5	903.3	888.3
12.5°	718.4	724.2	745.1	779.9	822.3	869.8	913.6	941.9	944.0	928.9
15°	634.7	640.5	662.7	706.4	771.0	847.3	920.4	974.1	992.2	979.2
17.5°	582.7	587.8	604.6	639.8	707.1	802.1	918.0	1008.2	1049.6	1039.3
20°	567.0	571.4	579.3	603.9	660.0	755.3	902.3	1040.4	1111.4	1105.6
22.5°	583.7	587.8	590.2	601.2	636.4	724.6	882.5	1073.2	1183.2	1183.9
25°	622.4	626.5	623.7	630.6	645.9	715.0	874.9	1111.8	1273.4	1281.0
27.5°	685.9	686.3	679.8	679.4	681.8	729.3	882.8	1153.1	1387.3	1401.3
30°	813.4	808.3	783.3	756.3	744.0	772.4	904.7	1202.0	1521.6	1546.5
32.5°	1009.9	1002.4	956.6	892.0	827.1	841.8	944.0	1257.7	1667.8	1713.0
35°	1223.2	1221.2	1173.3	1077.3	963.8	940.6	1007.9	1330.9	1827.5	1899.2
37.5°	1421.4	1420.4	1393.1	1279.9	1141.9	1078.3	1110.4	1426.6	1998.3	2102.2
40°	1602.6	1605.6	1578.3	1477.1	1338.0	1255.0	1249.9	1544.8	2188.4	2323.4
42.5°	1759.1	1762.5	1734.8	1660.0	1531.8	1450.5	1421.1	1689.7	2373.9	2560.9
45°	1865.4	1886.6	1882.5	1822.7	1730.7	1646.3	1626.8	1871.5	2585.5	2812.8
47.5°	1895.5	1914.9	1945.7	1953.9	1897.9	1814.8	1838.0	2090.6	2799.5	3065.0
50°	1821.3	1839.4	1903.3	1988.4	2027.4	2001.8	2043.5	2325.4	3018.5	3316.6
52.5°	1675.0	1693.5	1774.1	1908.8	2067.7	2148.4	2249.5	2556.8	3230.8	3554.8
55°	1463.5	1482.9	1586.5	1738.9	1990.8	2208.9	2421.5	2787.8	3425.2	3769.1
57.5°	1175.7	1190.0	1297.7	1511.0	1797.4	2148.7	2548.3	3040.1	3608.4	3979.6
60°	766.3	778.9	904.0	1141.9	1476.8	1947.8	2573.5	3321.3	3851.8	4253.4
62.5°	509.6	518.1	592.3	766.9	1040.0	1561.9	2425.6	3545.9	4208.6	4729.8
65°	349.6	358.2	432.3	554.0	671.9	1033.2	2000.0	3516.1	4531.9	5108.1
67.5°	249.5	256.7	319.6	434.4	486.3	600.2	1355.8	3136.1	4485.4	5122.5
70°	178.7	182.8	234.8	338.4	386.5	360.6	753.9	2398.6	3927.3	4730.1
72.5°	125.1	126.5	163.0	257.7	311.4	263.2	358.9	1599.2	2970.3	3712.7
75°	84.8	86.5	109.7	189.0	249.8	201.0	190.0	857.5	1743.7	2055.1
77.5°	51.9	52.6	70.7	129.2	186.9	153.1	122.4	363.3	674.7	662.4
80°	29.4	29.4	45.1	80.3	127.5	98.8	85.8	154.5	213.6	187.6
82.5°	16.4	16.7	32.8	49.9	84.4	58.4	47.2	71.4	92.3	81.7
85°	6.8	7.5	20.2	23.6	40.3	29.1	19.1	30.1	34.2	30.4
87.5°	0.7	1.0	6.2	4.4	4.8	5.8	2.7	5.8	4.8	4.8
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°
786.4	0°	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4
798.0	2.5°	791.5	786.4	773.4	758.4	738.6	729.0	716.0	707.1	699.6	700.3
817.9	5°	806.9	793.9	764.9	728.7	683.5	651.4	617.2	593.7	574.5	570.4
845.2	7.5°	828.1	807.6	756.7	691.4	615.2	557.4	505.8	472.7	449.1	441.6
878.4	10°	855.5	825.7	746.1	644.6	534.9	461.4	406.0	380.1	364.0	358.5
917.3	12.5°	887.2	846.6	732.1	587.5	452.2	381.4	346.2	333.2	328.1	326.4
965.2	15°	927.2	872.5	710.9	519.8	382.1	332.5	317.5	315.8	316.5	315.8
1022.6	17.5°	974.7	900.9	676.4	450.1	334.9	307.6	302.1	303.5	305.2	304.9
1086.8	20°	1026.7	928.9	632.3	388.3	302.8	289.8	286.7	288.1	289.5	288.8
1161.0	22.5°	1085.8	959.0	583.4	340.1	281.3	273.4	270.0	270.3	270.3	269.0
1255.0	25°	1156.6	992.2	532.1	305.9	264.9	258.7	254.6	253.3	251.2	247.1
1369.1	27.5°	1241.0	1027.4	482.9	282.0	251.9	246.1	241.3	237.9	232.7	225.9
1506.2	30°	1336.0	1070.1	441.2	266.9	241.6	235.8	230.4	225.2	217.7	209.2
1663.7	32.5°	1447.7	1115.9	410.8	257.0	232.4	226.3	219.8	213.6	205.4	196.9
1840.8	35°	1581.0	1171.3	393.0	250.2	225.2	217.0	209.8	203.0	196.9	189.3
2033.2	37.5°	1725.6	1230.0	387.6	246.8	220.4	207.8	199.6	194.8	194.1	189.7
2241.3	40°	1883.8	1299.8	391.7	244.7	215.3	198.9	190.0	189.0	190.7	182.8
2463.8	42.5°	2051.3	1382.5	398.5	242.3	208.1	190.0	181.5	181.5	180.1	169.2
2699.0	45°	2232.5	1477.8	405.3	236.5	199.6	181.1	174.6	172.3	166.4	155.8
2935.5	47.5°	2415.0	1574.9	410.5	225.9	189.3	173.6	167.8	162.3	153.8	144.2
3167.5	50°	2588.2	1662.0	405.0	210.2	177.7	166.4	160.3	152.8	143.5	137.1
3387.3	52.5°	2743.1	1737.6	381.8	191.7	165.4	158.9	153.5	145.6	138.1	131.2
3585.5	55°	2877.7	1798.7	340.7	174.3	154.5	152.4	147.0	137.1	126.8	121.0
3782.0	57.5°	3006.9	1845.2	289.5	159.9	144.6	145.3	137.1	128.2	118.6	112.4
4046.9	60°	3178.8	1907.4	237.5	146.6	134.0	136.0	127.1	120.6	108.7	100.8
4501.1	62.5°	3453.6	2004.2	188.7	130.2	121.7	122.4	118.6	110.7	96.4	87.2
4837.8	65°	3671.7	1968.6	148.7	112.4	107.7	108.7	108.7	100.1	84.8	74.2
4855.9	67.5°	3647.0	1685.6	118.6	95.0	94.3	95.0	97.4	90.2	75.2	66.6
4486.1	70°	3359.6	1340.8	95.0	78.9	82.0	80.3	87.2	82.4	67.7	59.1
3477.9	72.5°	2741.4	965.8	72.5	65.3	62.9	65.6	78.6	74.2	56.4	46.8
1842.2	75°	1601.9	515.4	54.0	51.6	45.5	54.7	69.7	63.2	43.1	34.5
564.6	77.5°	521.5	179.8	39.6	37.9	33.8	44.1	59.5	53.3	35.2	27.3
165.4	80°	139.8	54.3	27.0	24.9	21.9	32.8	47.2	42.4	25.3	17.8
71.1	82.5°	56.1	22.9	15.7	14.0	12.0	22.6	37.3	34.2	18.8	11.3
22.2	85°	18.1	7.5	5.8	4.4	5.5	14.0	22.2	23.2	13.3	5.8
3.4	87.5°	2.4	1.0	1.0	1.4	1.0	2.4	6.8	6.5	3.8	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>
786.4
693.5
561.2
434.1
354.4
325.4
315.5
304.2
288.5
268.3
246.4
225.2
208.5
197.2
188.7
189.3
183.2
169.2
155.5
143.9
136.0
130.6
120.3
111.8
99.8
86.5
73.1
65.3
58.1
45.8
33.5
26.3
17.4
11.3
4.4
0.0
0.0

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