

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: P946882

Luminaire Tested: **GALN-SB2B-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

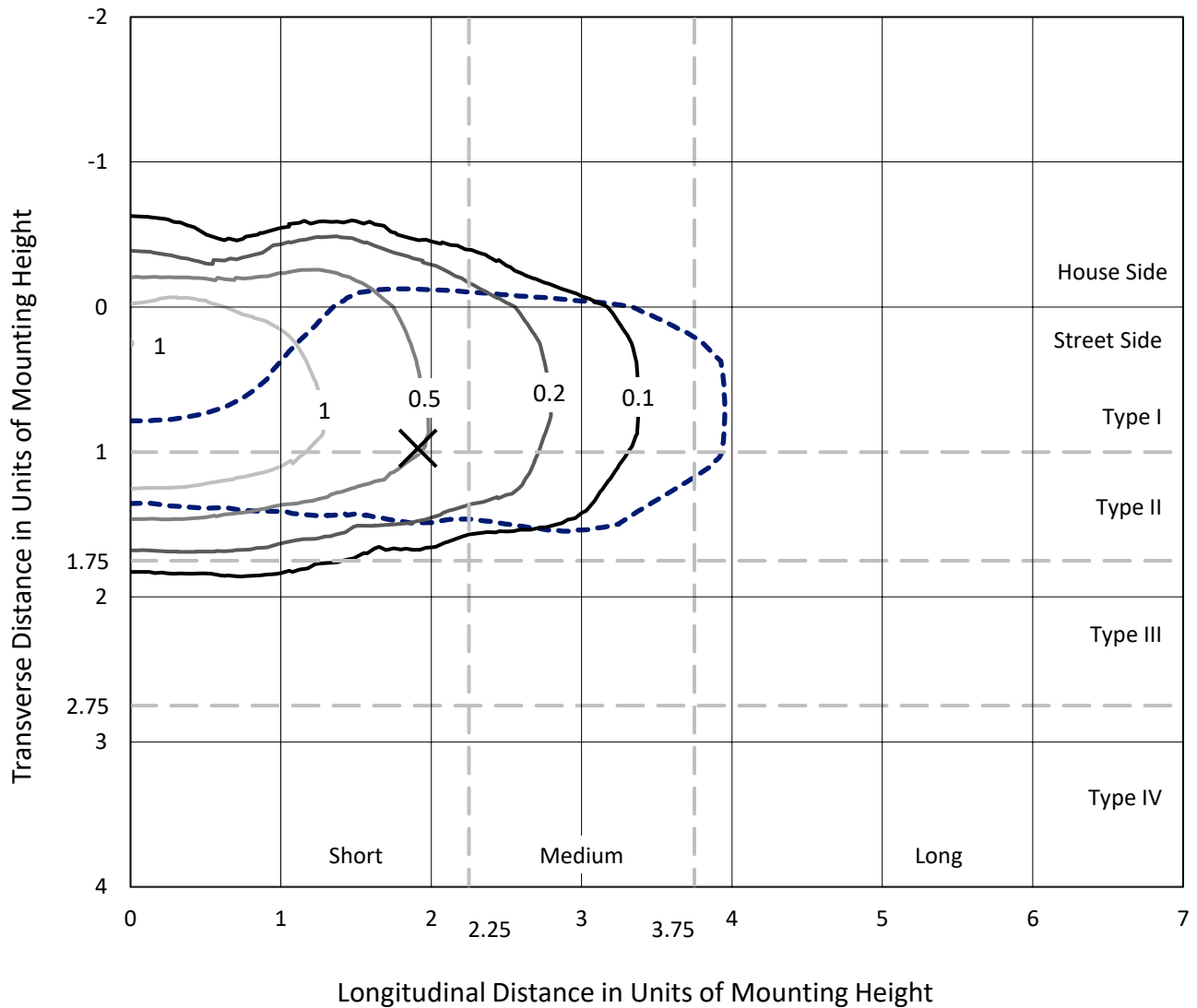
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

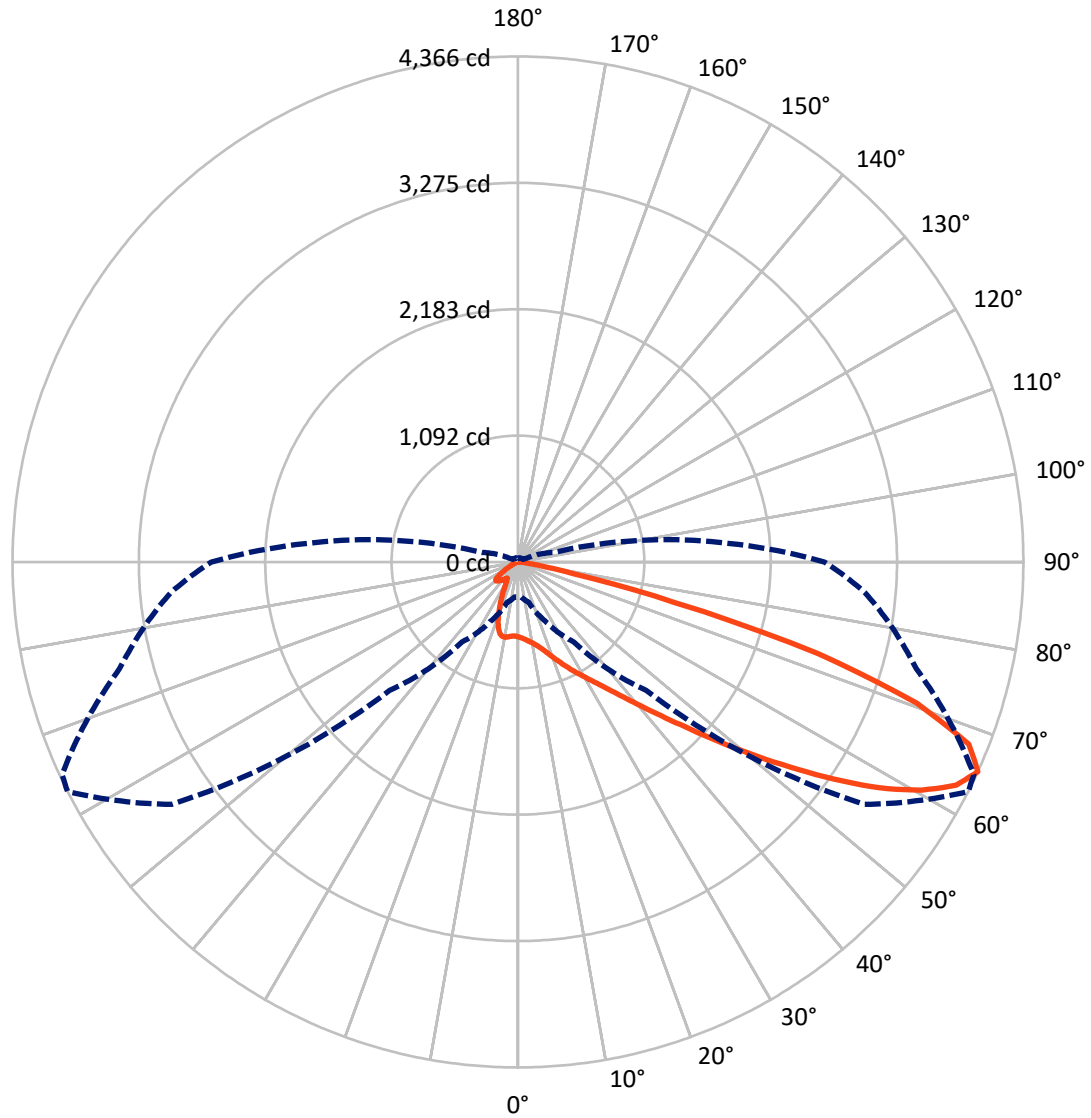
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.1	0.0	770.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4468.9	0.0	4468.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	5239.0	0.0	5239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.2
10°-20°	169.0	3.2
20°-30°	294.3	5.6
30°-40°	530.5	10.1
40°-50°	1052.2	20.1
50°-60°	1433.2	27.4
60°-70°	1144.0	21.8
70°-80°	517.7	9.9
80°-90°	37.2	0.7
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°	5239.0	100.0
0°-180°	5239.0	100.0

Coefficient of Utilization



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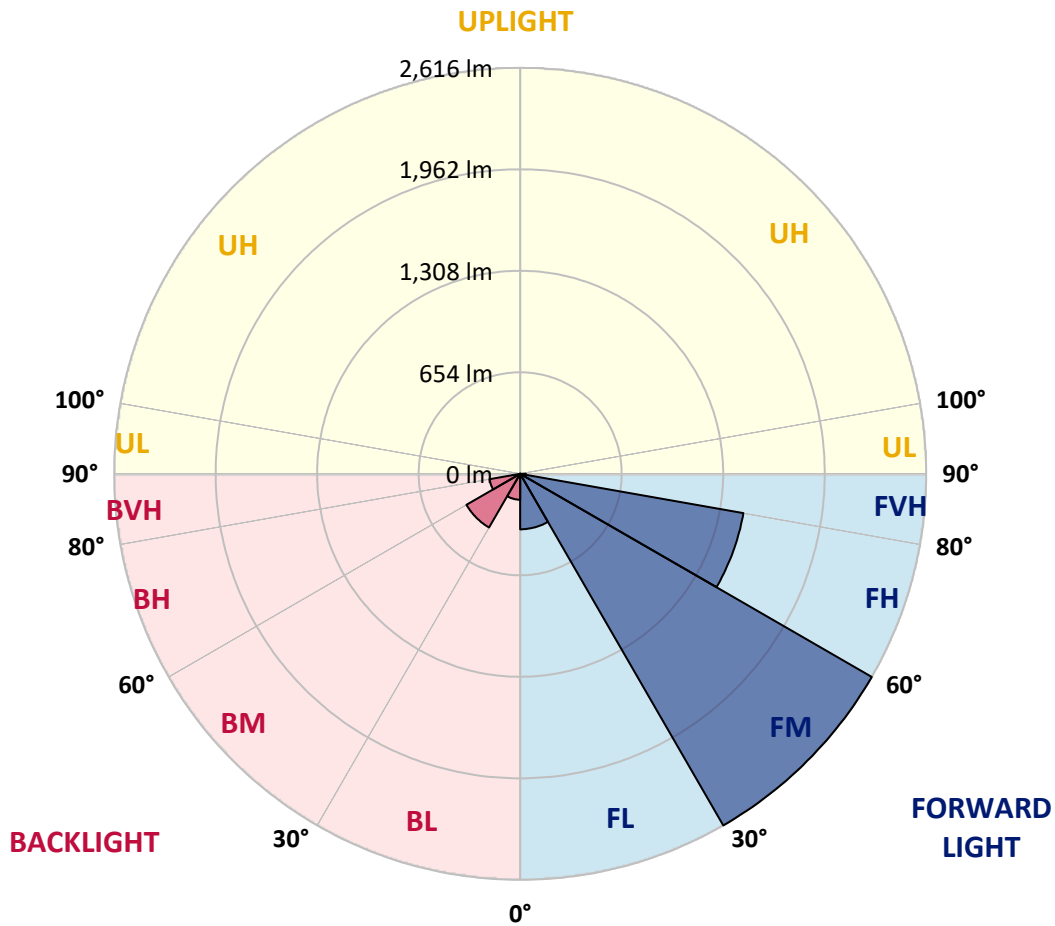
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.6	6.8			
FM (30°-60°)	2616.2	49.9			
FH (60°-80°)	1460.6	27.9			G1/1800
FVH (80°-90°)	34.5	0.7			G1/100
BL (0°-30°)	166.7	3.2	B1/500		
BM (30°-60°)	399.6	7.6	B1/1000		
BH (60°-80°)	201.0	3.8	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6
2.5°	661.7	659.9	662.5	661.4	660.6	659.2	658.5	657.8	656.3	655.2
5°	663.5	662.5	665.0	667.1	669.3	671.5	672.5	674.0	672.5	669.7
7.5°	648.4	647.7	653.1	659.6	669.3	677.6	686.6	691.6	692.0	690.9
10°	647.3	645.5	650.9	658.8	671.5	686.2	702.1	712.9	714.4	719.0
12.5°	664.3	662.5	670.0	678.7	691.6	707.1	726.6	741.7	743.9	750.4
15°	692.7	690.2	698.9	710.0	726.6	744.3	764.8	778.5	780.3	788.2
17.5°	725.9	723.4	733.5	745.3	763.4	787.5	811.3	826.4	828.6	833.6
20°	768.4	765.2	773.1	783.9	803.0	831.8	860.3	881.9	881.6	881.6
22.5°	817.8	812.7	819.6	828.2	846.3	881.2	919.1	944.7	944.7	934.6
25°	870.8	865.7	873.3	881.2	897.1	936.7	981.1	1012.8	1014.2	996.9
27.5°	937.1	930.6	936.4	945.7	955.1	995.5	1048.1	1084.9	1085.6	1058.9
30°	1064.7	1046.3	1028.3	1018.2	1022.5	1062.5	1118.7	1159.5	1163.1	1126.3
32.5°	1298.2	1294.6	1231.2	1148.3	1105.0	1134.6	1197.7	1246.7	1248.9	1201.6
35°	1661.2	1656.8	1554.8	1397.0	1256.1	1231.2	1293.5	1351.6	1350.1	1296.8
37.5°	2094.4	2090.4	1956.0	1744.8	1516.6	1377.2	1417.2	1478.1	1487.1	1417.2
40°	2464.5	2449.8	2364.7	2161.1	1862.6	1619.4	1593.1	1633.4	1642.8	1559.9
42.5°	2745.0	2732.3	2689.1	2561.9	2281.5	1977.6	1800.3	1815.8	1826.2	1726.8
45°	2890.2	2887.3	2904.6	2892.7	2708.2	2417.3	2096.6	2032.0	2036.0	1911.7
47.5°	2910.7	2909.3	2988.2	3100.0	3075.1	2913.3	2476.8	2301.6	2287.6	2120.3
50°	2789.6	2786.8	2938.1	3147.5	3320.2	3329.9	2908.6	2605.5	2574.5	2336.2
52.5°	2402.9	2402.2	2650.9	2999.4	3406.3	3694.7	3335.3	2939.2	2887.3	2564.7
55°	1848.9	1862.3	2147.4	2559.3	3249.2	3870.2	3718.4	3309.7	3230.1	2794.7
57.5°	1309.8	1329.2	1611.1	1978.0	2761.9	3766.4	3977.6	3681.0	3595.2	3023.9
60°	703.5	720.8	1003.0	1441.0	2054.7	3379.3	4114.2	4003.2	3922.1	3241.6
62.5°	419.2	424.9	541.7	930.2	1389.8	2581.7	4056.2	4248.6	4181.9	3424.3
65°	300.9	302.0	360.8	568.0	843.7	1568.5	3649.2	4366.1	4345.6	3562.0
67.5°	253.4	252.7	277.2	377.4	574.9	785.7	2796.9	4200.0	4287.2	3649.2
70°	217.3	218.4	247.2	276.4	432.1	444.8	1390.5	3656.8	3842.8	3672.3
72.5°	161.8	165.4	192.1	251.9	326.2	306.0	480.1	2711.4	3047.7	3460.0
75°	114.3	116.1	135.2	211.9	243.3	222.7	245.1	1401.7	1832.7	2652.7
77.5°	87.9	91.2	102.4	148.1	239.7	156.4	149.9	485.1	745.3	1602.4
80°	47.6	53.3	73.9	107.0	168.3	110.6	74.2	193.2	252.7	749.3
82.5°	24.5	27.4	51.5	77.1	95.9	96.6	36.8	80.4	104.2	231.4
85°	9.7	11.9	34.6	42.5	49.4	47.6	16.6	32.4	37.5	64.2
87.5°	2.2	3.6	12.6	9.7	9.4	10.1	4.0	7.6	7.2	7.6
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°
646.6	0°	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6	646.6
650.9	2.5°	650.6	649.1	645.1	640.8	635.8	632.9	631.1	630.7	628.2	626.4
665.3	5°	661.4	659.9	652.4	643.3	633.6	626.0	618.8	612.4	603.0	601.2
686.2	7.5°	683.0	679.0	666.8	654.5	636.1	614.2	587.5	556.8	529.5	521.2
714.0	10°	709.7	704.3	688.8	667.1	626.4	566.6	502.1	442.2	394.7	381.3
746.8	12.5°	739.9	735.3	714.7	674.7	585.7	477.2	378.4	304.2	258.1	246.5
781.7	15°	776.0	769.1	740.7	663.2	512.9	362.6	259.9	215.9	199.3	197.1
821.8	17.5°	814.2	803.0	763.7	621.7	414.8	257.7	200.8	188.1	180.9	178.8
862.1	20°	849.1	834.7	777.4	559.0	310.0	200.8	179.8	171.6	165.1	162.5
902.5	22.5°	884.1	863.6	777.4	473.6	232.5	178.0	165.1	157.5	149.9	146.7
945.7	25°	920.5	893.1	763.7	378.4	187.1	163.3	151.0	142.7	136.2	132.3
986.8	27.5°	955.8	918.0	732.4	288.3	166.5	150.3	138.0	130.1	124.0	121.1
1031.5	30°	989.4	942.5	688.4	218.8	153.2	137.7	126.1	119.3	113.2	110.3
1089.5	32.5°	1034.8	973.5	641.5	179.5	141.6	125.8	115.3	108.8	103.4	101.3
1164.9	35°	1097.8	1019.3	601.2	176.2	131.9	116.1	105.6	99.5	94.1	92.3
1262.2	37.5°	1187.2	1093.2	579.9	197.9	124.0	107.4	97.7	91.2	86.1	84.7
1385.8	40°	1297.5	1193.3	591.4	219.5	118.6	99.8	90.5	84.0	79.7	77.9
1527.8	42.5°	1428.3	1317.0	655.2	236.1	115.0	93.3	83.6	76.4	73.5	72.8
1688.9	45°	1578.6	1452.8	752.9	253.7	109.2	87.2	76.8	71.4	69.2	68.8
1864.1	47.5°	1749.5	1602.1	866.1	275.7	103.4	81.5	71.4	67.8	66.0	65.2
2046.8	50°	1918.9	1752.4	982.5	288.0	98.8	76.0	67.0	64.2	62.7	62.4
2240.0	52.5°	2096.2	1907.0	1076.6	276.4	94.8	71.7	63.4	61.3	59.8	59.5
2418.1	55°	2265.2	2032.0	1092.8	234.6	86.9	67.4	59.5	58.4	56.6	56.6
2598.6	57.5°	2410.8	2094.8	978.2	172.3	78.9	60.9	55.5	54.4	53.0	52.6
2761.5	60°	2544.6	2076.7	755.1	116.1	70.3	54.4	50.5	49.7	48.3	46.5
2903.2	62.5°	2619.9	1997.4	516.5	75.7	61.6	47.6	44.7	44.3	41.1	37.5
3008.1	65°	2648.4	1834.5	322.2	55.1	51.5	40.7	38.6	37.8	33.2	29.2
3067.5	67.5°	2623.5	1566.4	162.5	43.6	40.7	33.9	31.7	31.7	28.5	24.9
3063.9	70°	2524.0	1174.2	68.5	35.0	31.4	26.0	26.0	27.4	24.1	20.2
2905.0	72.5°	2308.1	790.0	36.4	26.7	23.4	18.4	21.3	22.3	19.1	15.1
2377.7	75°	1834.9	481.9	25.2	19.8	14.8	13.0	16.2	16.9	13.0	10.1
1630.2	77.5°	1255.0	276.8	16.9	12.6	9.4	7.6	11.2	10.5	6.8	4.7
628.6	80°	551.1	115.3	9.7	5.8	3.6	2.9	4.0	2.9	2.2	1.4
86.1	82.5°	64.5	27.0	3.6	2.2	1.4	0.7	0.4	0.0	0.0	0.0
26.3	85°	13.3	3.2	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0
4.7	87.5°	2.5	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
646.6
628.2
600.5
517.2
376.3
243.3
195.0
177.7
161.1
144.9
130.8
121.1
110.6
101.3
92.3
84.3
77.5
72.8
68.5
65.2
62.4
59.5
56.2
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