

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: P946420

Luminaire Tested: **GALN-SB2A-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946420
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-SB2A-827-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA 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: 5962 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

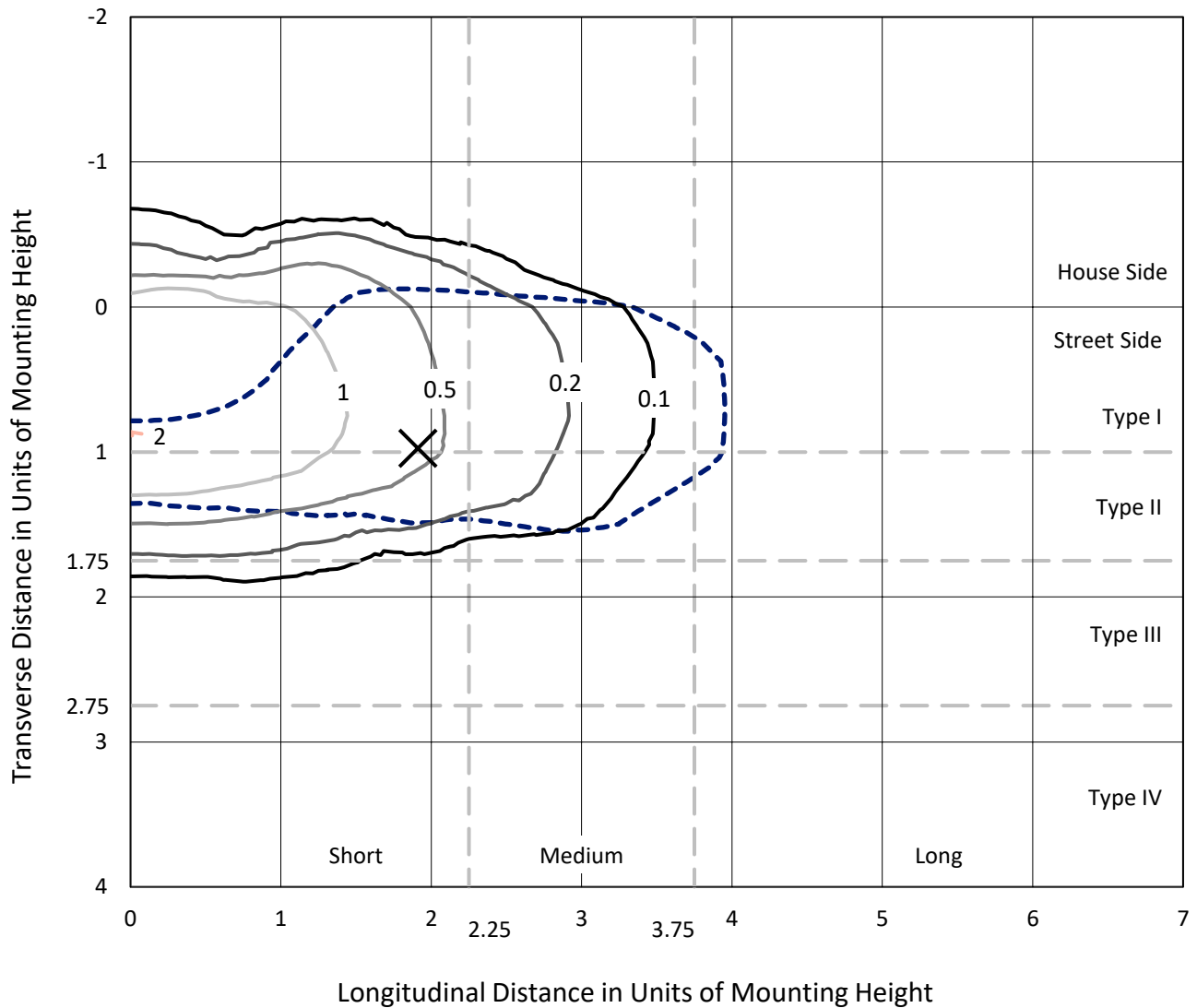
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

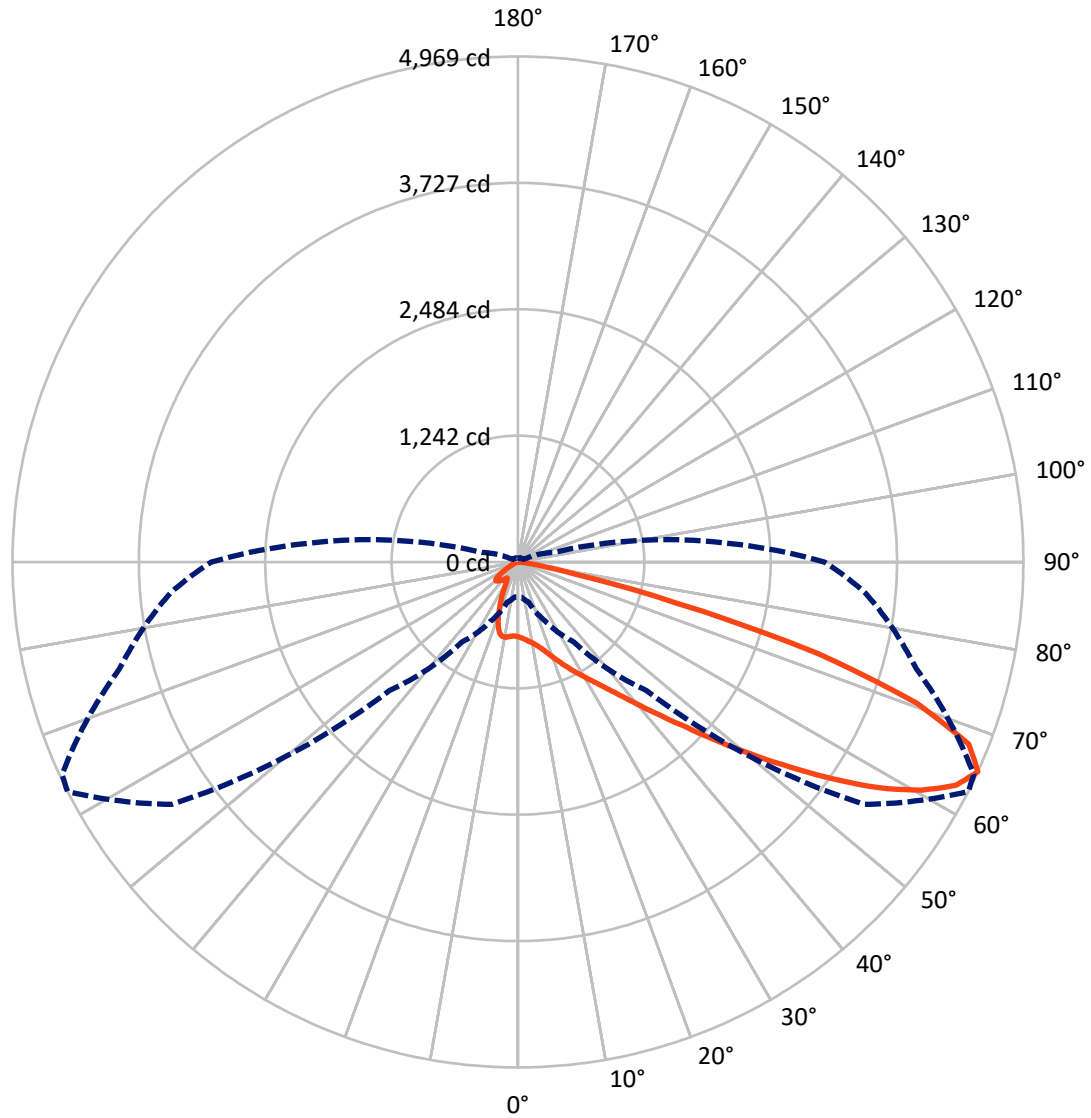
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	876.4	0.0	876.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5085.6	0.0	5085.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	5962.0	0.0	5962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.2
10°-20°	192.4	3.2
20°-30°	334.9	5.6
30°-40°	603.7	10.1
40°-50°	1197.4	20.1
50°-60°	1631.0	27.4
60°-70°	1301.8	21.8
70°-80°	589.1	9.9
80°-90°	42.3	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°	5962.0	100.0
0°-180°	5962.0	100.0

Coefficient of Utilization



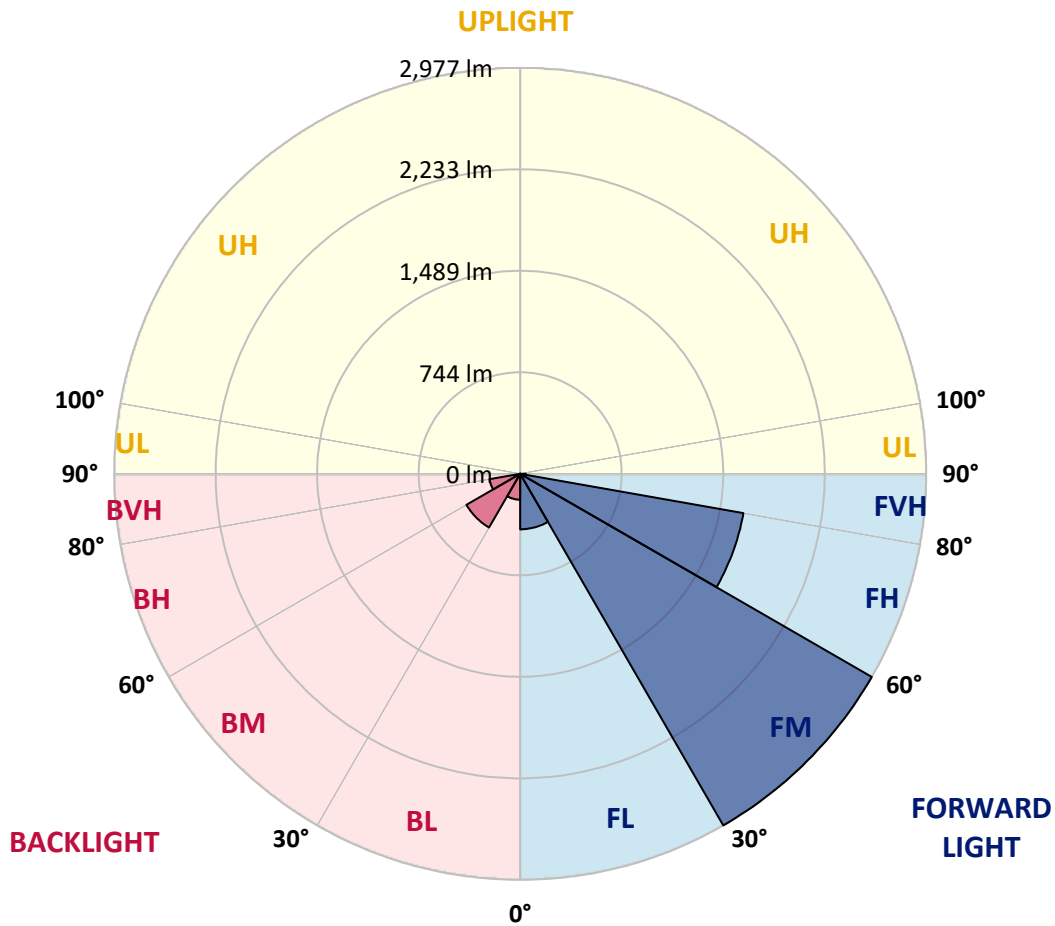
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.0	6.8			
FM (30°-60°)	2977.3	49.9			
FH (60°-80°)	1662.2	27.9			G1/1800
FVH (80°-90°)	39.2	0.7			G1/100
BL (0°-30°)	189.7	3.2	B1/500		
BM (30°-60°)	454.8	7.6	B1/1000		
BH (60°-80°)	228.8	3.8	B1/500		G1/500
BVH (80°-90°)	3.1	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°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	753.1	751.0	753.9	752.6	751.8	750.2	749.4	748.5	746.9	745.7
5°	755.1	753.9	756.7	759.2	761.7	764.1	765.4	767.0	765.4	762.1
7.5°	737.9	737.1	743.2	750.6	761.7	771.1	781.4	787.1	787.5	786.3
10°	736.6	734.6	740.7	749.8	764.1	780.9	799.0	811.3	812.9	818.3
12.5°	755.9	753.9	762.5	772.3	787.1	804.7	826.9	844.1	846.6	853.9
15°	788.3	785.5	795.3	808.0	826.9	847.0	870.4	885.9	888.0	897.0
17.5°	826.1	823.2	834.7	848.2	868.7	896.2	923.3	940.5	943.0	948.7
20°	874.5	870.8	879.8	892.1	913.8	946.6	979.0	1003.7	1003.2	1003.2
22.5°	930.6	924.9	932.7	942.5	963.1	1002.8	1045.9	1075.0	1075.0	1063.5
25°	990.9	985.2	993.8	1002.8	1020.9	1066.0	1116.5	1152.5	1154.2	1134.5
27.5°	1066.4	1059.0	1065.6	1076.3	1086.9	1132.9	1192.7	1234.6	1235.4	1205.0
30°	1211.6	1190.7	1170.2	1158.7	1163.6	1209.1	1273.1	1319.5	1323.6	1281.7
32.5°	1477.4	1473.3	1401.1	1306.8	1257.5	1291.2	1363.0	1418.7	1421.2	1367.5
35°	1890.4	1885.5	1769.4	1589.8	1429.4	1401.1	1472.1	1538.1	1536.5	1475.7
37.5°	2383.4	2378.9	2225.9	1985.6	1725.9	1567.2	1612.7	1682.1	1692.3	1612.7
40°	2804.7	2787.8	2691.0	2459.3	2119.7	1842.8	1812.9	1858.8	1869.5	1775.2
42.5°	3123.8	3109.4	3060.2	2915.4	2596.3	2250.5	2048.7	2066.4	2078.3	1965.1
45°	3289.1	3285.8	3305.5	3291.9	3081.9	2750.9	2385.9	2312.5	2317.0	2175.5
47.5°	3312.4	3310.8	3400.6	3527.8	3499.5	3315.3	2818.6	2619.3	2603.3	2413.0
50°	3174.6	3171.3	3343.6	3581.9	3778.4	3789.4	3310.0	2965.0	2929.8	2658.6
52.5°	2734.5	2733.7	3016.7	3413.3	3876.4	4204.5	3795.6	3344.8	3285.8	2918.7
55°	2104.1	2119.3	2443.7	2912.5	3697.6	4404.3	4231.6	3766.5	3675.8	3180.4
57.5°	1490.5	1512.7	1833.4	2250.9	3143.0	4286.2	4526.5	4188.9	4091.3	3441.2
60°	800.6	820.3	1141.5	1639.8	2338.3	3845.6	4682.0	4555.6	4463.3	3689.0
62.5°	477.0	483.6	616.5	1058.6	1581.6	2938.0	4615.9	4834.9	4759.1	3896.9
65°	342.5	343.7	410.6	646.4	960.2	1785.0	4152.8	4968.7	4945.3	4053.6
67.5°	288.3	287.5	315.4	429.4	654.2	894.1	3182.8	4779.6	4878.8	4152.8
70°	247.3	248.6	281.4	314.6	491.8	506.1	1582.4	4161.5	4373.1	4179.1
72.5°	184.2	188.3	218.6	286.7	371.2	348.2	546.3	3085.6	3468.3	3937.5
75°	130.0	132.1	153.8	241.2	276.9	253.5	278.9	1595.1	2085.7	3018.8
77.5°	100.1	103.8	116.5	168.6	272.8	178.0	170.6	552.1	848.2	1823.6
80°	54.1	60.7	84.1	121.8	191.5	125.9	84.5	219.8	287.5	852.7
82.5°	27.9	31.2	58.7	87.8	109.1	109.9	41.8	91.5	118.5	263.3
85°	11.1	13.5	39.4	48.4	56.2	54.1	18.9	36.9	42.7	73.0
87.5°	2.5	4.1	14.4	11.1	10.7	11.5	4.5	8.6	8.2	8.6
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°
735.8	0°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
740.7	2.5°	740.3	738.7	734.2	729.3	723.5	720.2	718.2	717.8	714.9	712.9
757.2	5°	752.6	751.0	742.4	732.1	721.1	712.4	704.2	696.9	686.2	684.1
780.9	7.5°	777.2	772.7	758.8	744.8	723.9	698.9	668.6	633.7	602.5	593.1
812.5	10°	807.6	801.4	783.8	759.2	712.9	644.8	571.4	503.3	449.1	433.9
849.8	12.5°	842.1	836.7	813.3	767.8	666.5	543.0	430.7	346.2	293.7	280.5
889.6	15°	883.1	875.3	842.9	754.7	583.7	412.6	295.7	245.7	226.8	224.4
935.2	17.5°	926.5	913.8	869.1	707.5	472.1	293.3	228.5	214.1	205.9	203.4
981.1	20°	966.3	949.9	884.7	636.2	352.7	228.5	204.7	195.2	187.9	185.0
1027.0	22.5°	1006.1	982.7	884.7	538.9	264.6	202.6	187.9	179.2	170.6	166.9
1076.3	25°	1047.5	1016.4	869.1	430.7	212.9	185.8	171.9	162.4	155.0	150.5
1123.0	27.5°	1087.7	1044.7	833.4	328.1	189.5	171.0	157.1	148.1	141.1	137.8
1173.9	30°	1125.9	1072.6	783.4	249.0	174.3	156.7	143.6	135.8	128.8	125.5
1239.9	32.5°	1177.6	1107.8	730.1	204.3	161.2	143.1	131.3	123.9	117.7	115.3
1325.6	35°	1249.3	1159.9	684.1	200.6	150.1	132.1	120.2	113.2	107.1	105.0
1436.4	37.5°	1351.1	1244.0	659.9	225.2	141.1	122.2	111.2	103.8	98.0	96.4
1577.1	40°	1476.6	1358.0	673.1	249.8	134.9	113.6	102.9	95.6	90.6	88.6
1738.7	42.5°	1625.5	1498.7	745.7	268.7	130.8	106.2	95.2	87.0	83.7	82.9
1922.0	45°	1796.5	1653.3	856.8	288.8	124.3	99.3	87.4	81.2	78.8	78.3
2121.3	47.5°	1990.9	1823.2	985.6	313.8	117.7	92.7	81.2	77.1	75.1	74.2
2329.3	50°	2183.7	1994.2	1118.1	327.7	112.4	86.5	76.3	73.0	71.4	71.0
2549.1	52.5°	2385.5	2170.1	1225.1	314.6	107.9	81.6	72.2	69.7	68.1	67.7
2751.8	55°	2577.8	2312.5	1243.6	267.0	98.8	76.7	67.7	66.4	64.4	64.4
2957.2	57.5°	2743.5	2383.8	1113.2	196.1	89.8	69.3	63.2	61.9	60.3	59.9
3142.6	60°	2895.7	2363.3	859.3	132.1	80.0	61.9	57.4	56.6	55.0	52.9
3303.8	62.5°	2981.4	2273.1	587.8	86.1	70.1	54.1	50.9	50.4	46.8	42.7
3423.2	65°	3013.8	2087.7	366.7	62.8	58.7	46.3	43.9	43.1	37.7	33.2
3490.9	67.5°	2985.5	1782.5	185.0	49.6	46.3	38.6	36.1	36.1	32.4	28.3
3486.8	70°	2872.3	1336.3	77.9	39.8	35.7	29.5	29.5	31.2	27.5	23.0
3305.9	72.5°	2626.7	899.1	41.4	30.4	26.7	20.9	24.2	25.4	21.7	17.2
2705.8	75°	2088.1	548.4	28.7	22.6	16.8	14.8	18.5	19.3	14.8	11.5
1855.1	77.5°	1428.2	315.0	19.3	14.4	10.7	8.6	12.7	11.9	7.8	5.3
715.3	80°	627.1	131.3	11.1	6.6	4.1	3.3	4.5	3.3	2.5	1.6
98.0	82.5°	73.4	30.8	4.1	2.5	1.6	0.8	0.4	0.0	0.0	0.0
29.9	85°	15.2	3.7	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	2.9	0.8	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>
735.8
714.9
683.3
588.6
428.2
276.9
221.9
202.2
183.3
164.9
148.9
137.8
125.9
115.3
105.0
96.0
88.2
82.9
77.9
74.2
71.0
67.7
64.0
59.5
52.5
41.8
32.8
27.9
22.6
17.2
11.1
5.7
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