

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: P946525

Luminaire Tested: **GALN-SB2A-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946525
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-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 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: 4173 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

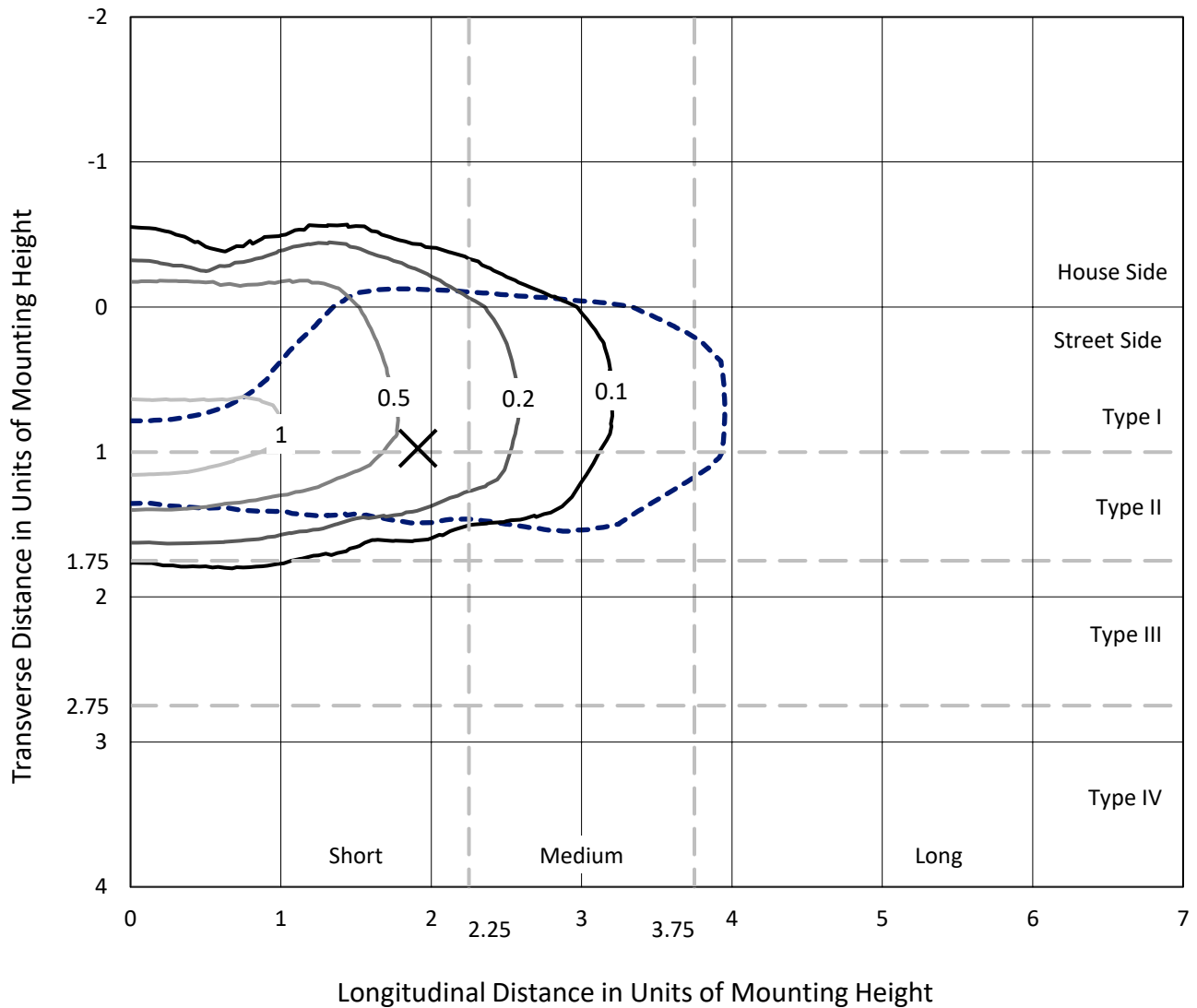
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

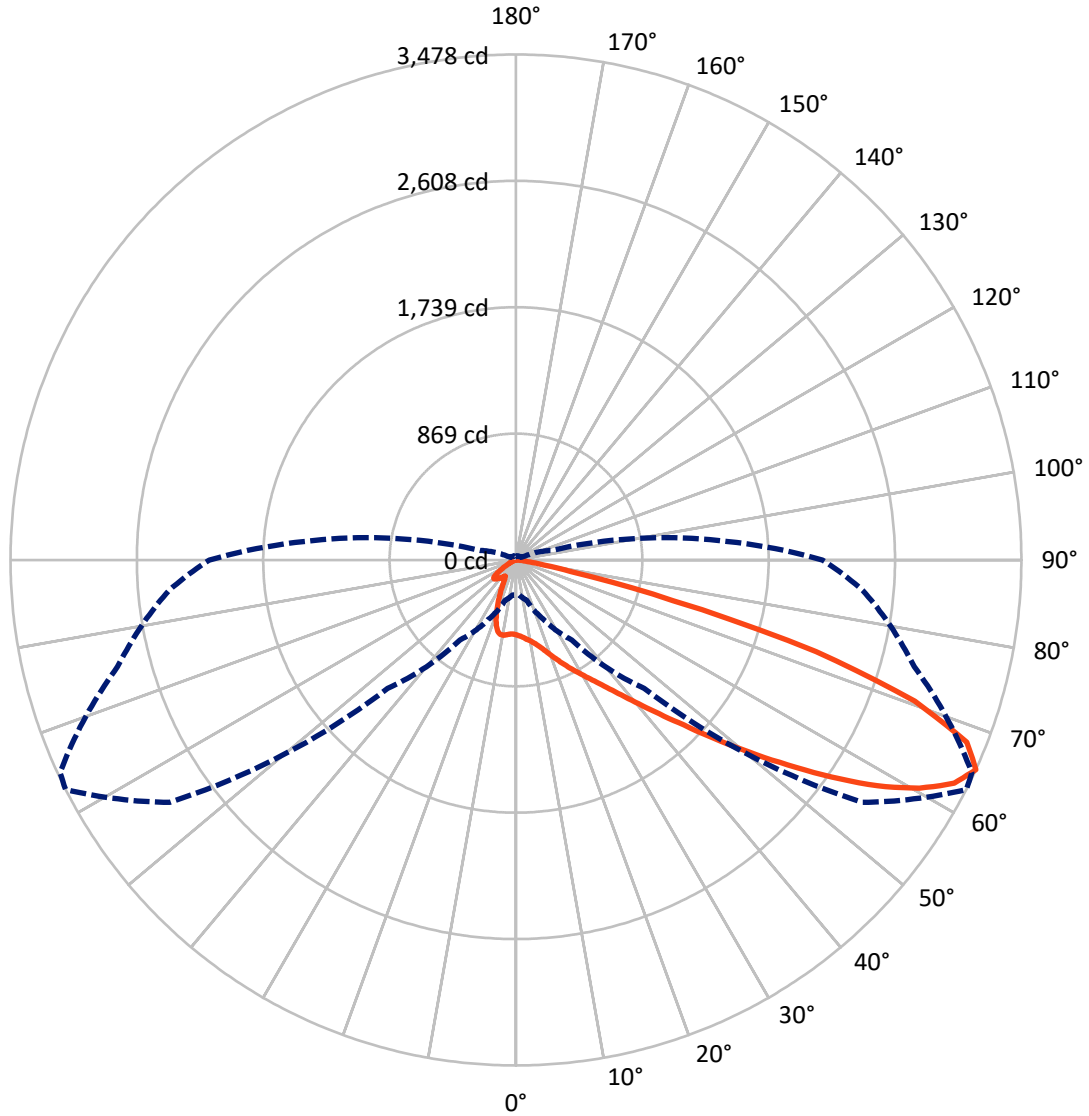
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	613.4	0.0	613.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3559.6	0.0	3559.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	4173.0	0.0	4173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.2
10°-20°	134.6	3.2
20°-30°	234.4	5.6
30°-40°	422.6	10.1
40°-50°	838.1	20.1
50°-60°	1141.6	27.4
60°-70°	911.2	21.8
70°-80°	412.3	9.9
80°-90°	29.6	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°	4173.0	100.0
0°-180°	4173.0	100.0

Coefficient of Utilization



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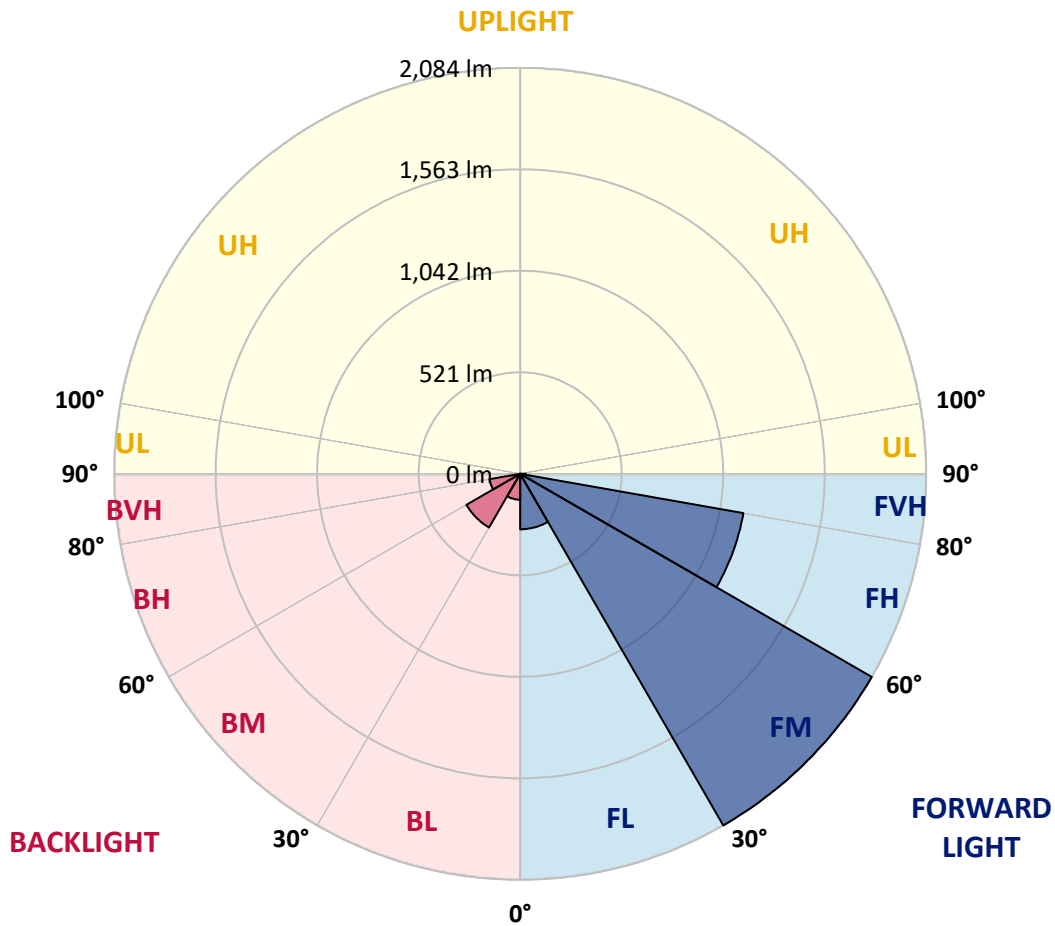
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.9	6.8			
FM (30°-60°)	2083.9	49.9			
FH (60°-80°)	1163.4	27.9			G1/1800
FVH (80°-90°)	27.4	0.7			G1/100
BL (0°-30°)	132.8	3.2	B1/500		
BM (30°-60°)	318.3	7.6	B1/1000		
BH (60°-80°)	160.1	3.8	B1/500		G1/500
BVH (80°-90°)	2.2	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°	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
2.5°	527.1	525.6	527.7	526.8	526.2	525.1	524.5	523.9	522.8	521.9
5°	528.5	527.7	529.7	531.4	533.1	534.8	535.7	536.8	535.7	533.4
7.5°	516.5	515.9	520.2	525.4	533.1	539.7	546.9	550.9	551.2	550.3
10°	515.6	514.2	518.5	524.8	534.8	546.6	559.2	567.9	569.0	572.7
12.5°	529.1	527.7	533.7	540.6	550.9	563.3	578.8	590.8	592.5	597.7
15°	551.8	549.8	556.7	565.6	578.8	592.8	609.2	620.1	621.5	627.9
17.5°	578.2	576.2	584.2	593.7	608.0	627.3	646.2	658.3	660.0	664.0
20°	612.1	609.5	615.8	624.4	639.6	662.6	685.3	702.5	702.2	702.2
22.5°	651.4	647.4	652.8	659.7	674.1	701.9	732.1	752.4	752.4	744.4
25°	693.6	689.6	695.6	701.9	714.5	746.1	781.4	806.7	807.9	794.1
27.5°	746.4	741.2	745.8	753.3	760.8	792.9	834.8	864.1	864.7	843.5
30°	848.0	833.4	819.0	811.0	814.5	846.3	891.1	923.5	926.4	897.1
32.5°	1034.1	1031.2	980.7	914.6	880.2	903.7	954.0	993.0	994.7	957.1
35°	1323.2	1319.7	1238.5	1112.7	1000.5	980.7	1030.3	1076.6	1075.4	1032.9
37.5°	1668.2	1665.1	1558.0	1389.8	1208.0	1096.9	1128.8	1177.3	1184.5	1128.8
40°	1963.1	1951.3	1883.6	1721.4	1483.6	1289.9	1268.9	1301.1	1308.5	1242.5
42.5°	2186.4	2176.4	2141.9	2040.6	1817.2	1575.2	1434.0	1446.3	1454.6	1375.4
45°	2302.1	2299.8	2313.6	2304.1	2157.1	1925.5	1670.0	1618.6	1621.7	1522.7
47.5°	2318.5	2317.3	2380.2	2469.2	2449.4	2320.5	1972.8	1833.3	1822.1	1688.9
50°	2222.0	2219.7	2340.3	2507.1	2644.6	2652.4	2316.8	2075.3	2050.6	1860.9
52.5°	1914.0	1913.4	2111.5	2389.1	2713.2	2942.9	2656.7	2341.2	2299.8	2042.9
55°	1472.7	1483.4	1710.4	2038.6	2588.1	3082.7	2961.8	2636.3	2572.8	2226.0
57.5°	1043.3	1058.8	1283.3	1575.5	2199.9	3000.0	3168.2	2932.0	2863.7	2408.6
60°	560.4	574.2	799.0	1147.8	1636.7	2691.7	3277.1	3188.6	3124.0	2582.0
62.5°	333.9	338.5	431.5	741.0	1107.0	2056.4	3230.8	3384.1	3331.0	2727.6
65°	239.7	240.6	287.4	452.4	672.1	1249.4	2906.7	3477.7	3461.4	2837.2
67.5°	201.8	201.2	220.8	300.6	457.9	625.8	2227.8	3345.4	3414.9	2906.7
70°	173.1	174.0	196.9	220.2	344.2	354.3	1107.6	2912.7	3060.9	2925.1
72.5°	128.9	131.8	153.0	200.7	259.8	243.7	382.4	2159.7	2427.6	2756.0
75°	91.0	92.4	107.7	168.8	193.8	177.4	195.2	1116.5	1459.8	2112.9
77.5°	70.0	72.6	81.5	118.0	190.9	124.6	119.4	386.4	593.7	1276.4
80°	37.9	42.5	58.9	85.3	134.1	88.1	59.1	153.9	201.2	596.8
82.5°	19.5	21.8	41.1	61.4	76.4	76.9	29.3	64.0	83.0	184.3
85°	7.8	9.5	27.6	33.9	39.3	37.9	13.2	25.8	29.9	51.1
87.5°	1.7	2.9	10.0	7.8	7.5	8.0	3.2	6.0	5.7	6.0
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°
515.0	0°	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0	515.0
518.5	2.5°	518.2	517.0	513.9	510.4	506.4	504.1	502.7	502.4	500.4	499.0
530.0	5°	526.8	525.6	519.6	512.4	504.7	498.7	492.9	487.8	480.3	478.9
546.6	7.5°	544.0	540.9	531.1	521.3	506.7	489.2	467.9	443.5	421.7	415.1
568.7	10°	565.3	561.0	548.6	531.4	499.0	451.3	399.9	352.3	314.4	303.7
594.8	12.5°	589.4	585.6	569.3	537.4	466.5	380.1	301.4	242.3	205.6	196.4
622.7	15°	618.1	612.6	590.0	528.2	408.5	288.8	207.0	172.0	158.8	157.0
654.5	17.5°	648.5	639.6	608.3	495.2	330.4	205.3	159.9	149.9	144.1	142.4
686.7	20°	676.4	664.9	619.2	445.3	246.9	159.9	143.3	136.7	131.5	129.5
718.9	22.5°	704.2	687.9	619.2	377.2	185.2	141.8	131.5	125.5	119.4	116.8
753.3	25°	733.2	711.4	608.3	301.4	149.0	130.0	120.3	113.7	108.5	105.4
786.0	27.5°	761.3	731.2	583.4	229.7	132.6	119.7	110.0	103.6	98.8	96.5
821.6	30°	788.0	750.7	548.3	174.3	122.0	109.7	100.5	95.0	90.1	87.8
867.9	32.5°	824.2	775.4	511.0	143.0	112.8	100.2	91.9	86.7	82.4	80.7
927.9	35°	874.5	811.9	478.9	140.4	105.1	92.4	84.1	79.2	74.9	73.5
1005.4	37.5°	945.7	870.7	461.9	157.6	98.8	85.6	77.8	72.6	68.6	67.5
1103.8	40°	1033.5	950.5	471.1	174.8	94.5	79.5	72.1	66.9	63.4	62.0
1216.9	42.5°	1137.7	1049.0	521.9	188.0	91.6	74.4	66.6	60.9	58.6	58.0
1345.3	45°	1257.4	1157.2	599.7	202.1	87.0	69.5	61.1	56.8	55.1	54.8
1484.8	47.5°	1393.5	1276.1	689.9	219.6	82.4	64.9	56.8	54.0	52.5	52.0
1630.3	50°	1528.4	1395.8	782.6	229.4	78.7	60.6	53.4	51.1	50.0	49.7
1784.2	52.5°	1669.7	1519.0	857.5	220.2	75.5	57.1	50.5	48.8	47.7	47.4
1926.0	55°	1804.3	1618.6	870.4	186.9	69.2	53.7	47.4	46.5	45.1	45.1
2069.9	57.5°	1920.3	1668.5	779.1	137.2	62.9	48.5	44.2	43.3	42.2	41.9
2199.6	60°	2026.8	1654.2	601.4	92.4	56.0	43.3	40.2	39.6	38.5	37.0
2312.5	62.5°	2086.8	1591.0	411.4	60.3	49.1	37.9	35.6	35.3	32.7	29.9
2396.0	65°	2109.5	1461.3	256.7	43.9	41.1	32.4	30.7	30.1	26.4	23.3
2443.4	67.5°	2089.7	1247.7	129.5	34.7	32.4	27.0	25.3	25.3	22.7	19.8
2440.5	70°	2010.4	935.3	54.5	27.8	25.0	20.7	20.7	21.8	19.2	16.1
2313.9	72.5°	1838.5	629.3	29.0	21.2	18.7	14.6	16.9	17.8	15.2	12.1
1893.9	75°	1461.5	383.8	20.1	15.8	11.8	10.3	12.9	13.5	10.3	8.0
1298.5	77.5°	999.6	220.5	13.5	10.0	7.5	6.0	8.9	8.3	5.5	3.7
500.7	80°	439.0	91.9	7.8	4.6	2.9	2.3	3.2	2.3	1.7	1.1
68.6	82.5°	51.4	21.5	2.9	1.7	1.1	0.6	0.3	0.0	0.0	0.0
21.0	85°	10.6	2.6	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0
3.7	87.5°	2.0	0.6	0.3	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>
515.0
500.4
478.3
412.0
299.7
193.8
155.3
141.5
128.3
115.4
104.2
96.5
88.1
80.7
73.5
67.2
61.7
58.0
54.5
52.0
49.7
47.4
44.8
41.6
36.7
29.3
23.0
19.5
15.8
12.1
7.8
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