

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: P945897

Luminaire Tested: **GALN-SB1C-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

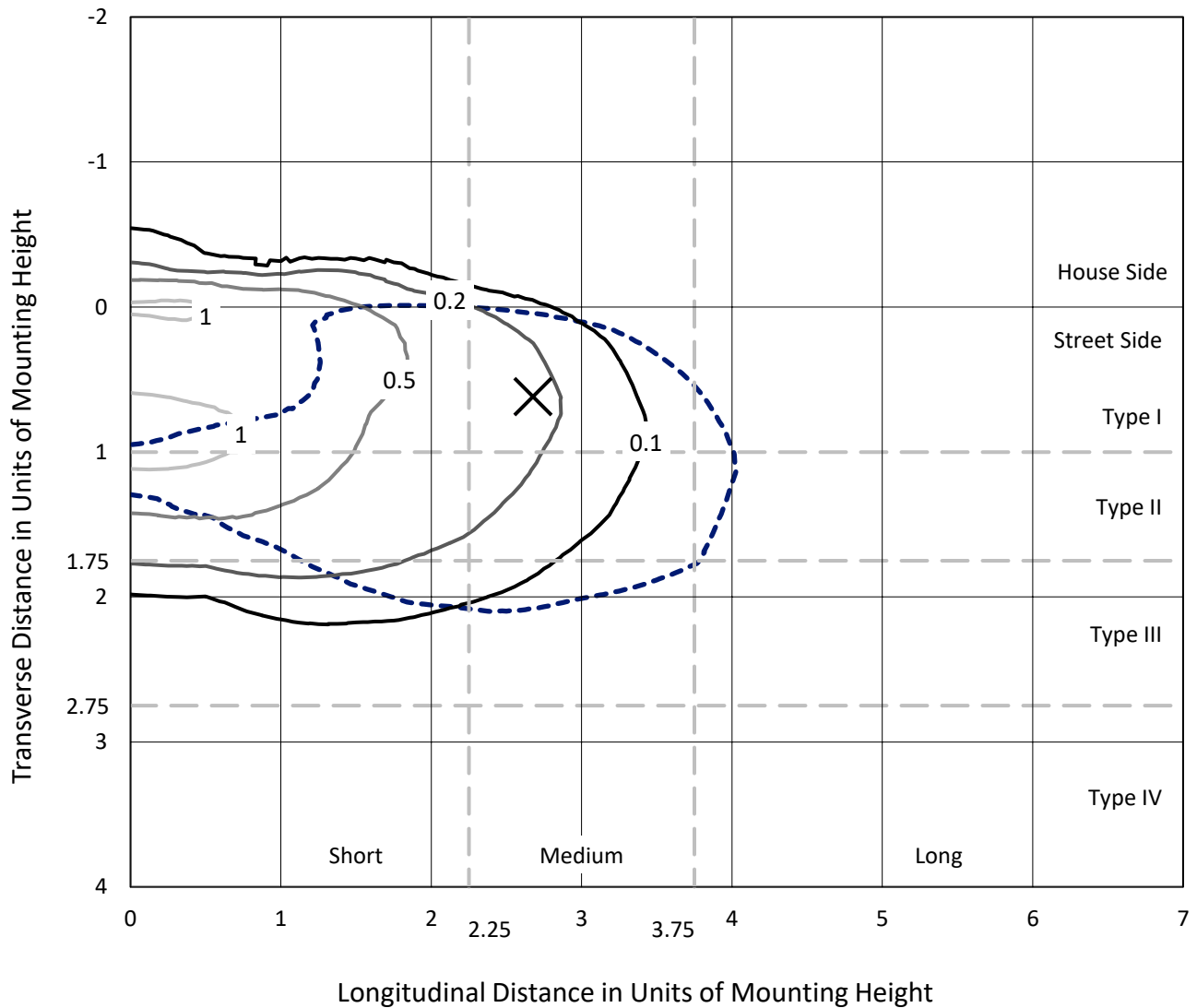
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

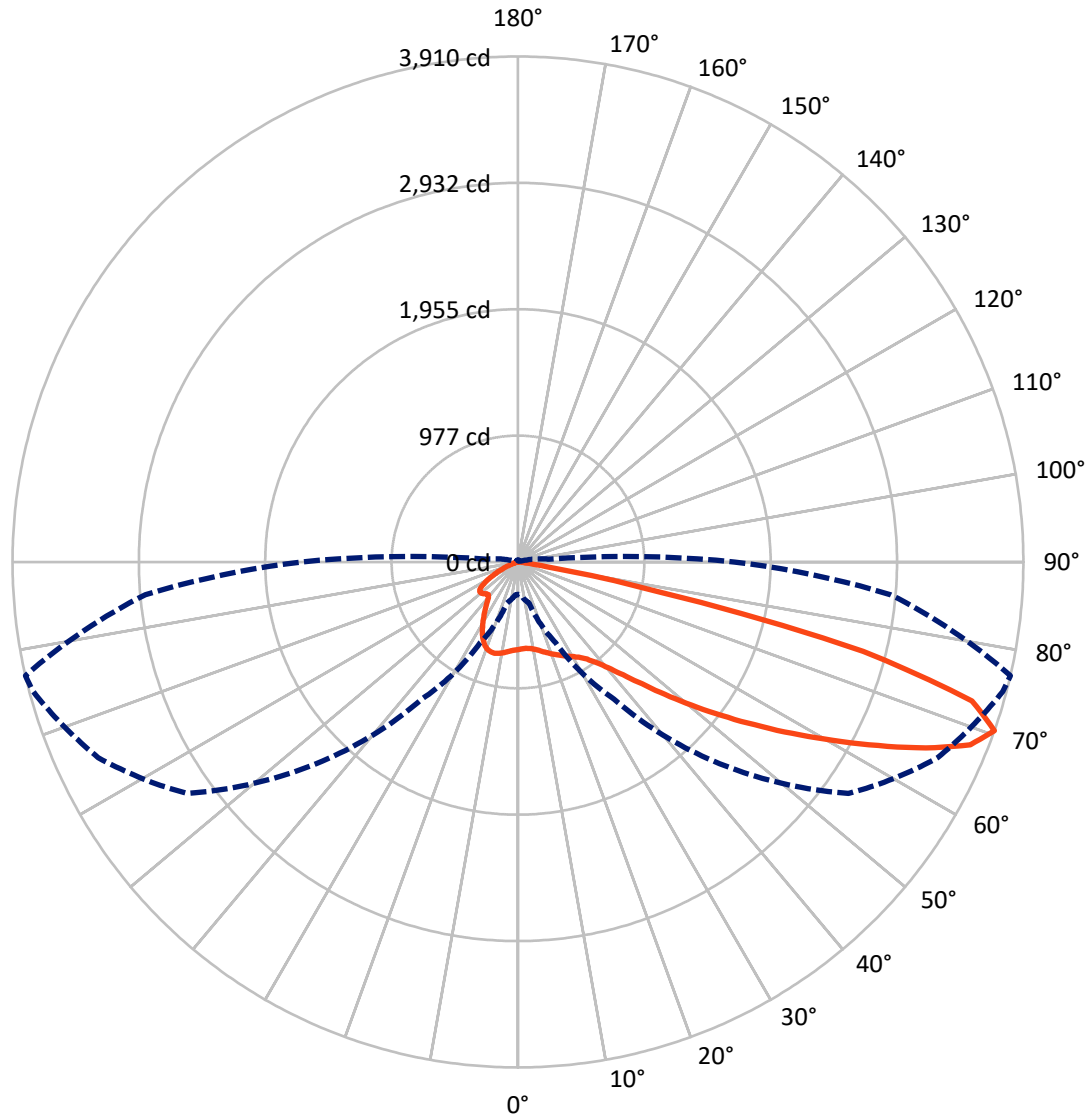
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	457.4	0.0	457.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3881.6	0.0	3881.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	4339.0	0.0	4339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.3
10°-20°	138.5	3.2
20°-30°	214.2	4.9
30°-40°	388.6	9.0
40°-50°	733.6	16.9
50°-60°	1060.0	24.4
60°-70°	1128.3	26.0
70°-80°	597.9	13.8
80°-90°	19.6	0.5
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°	4339.0	100.0
0°-180°	4339.0	100.0

Coefficient of Utilization



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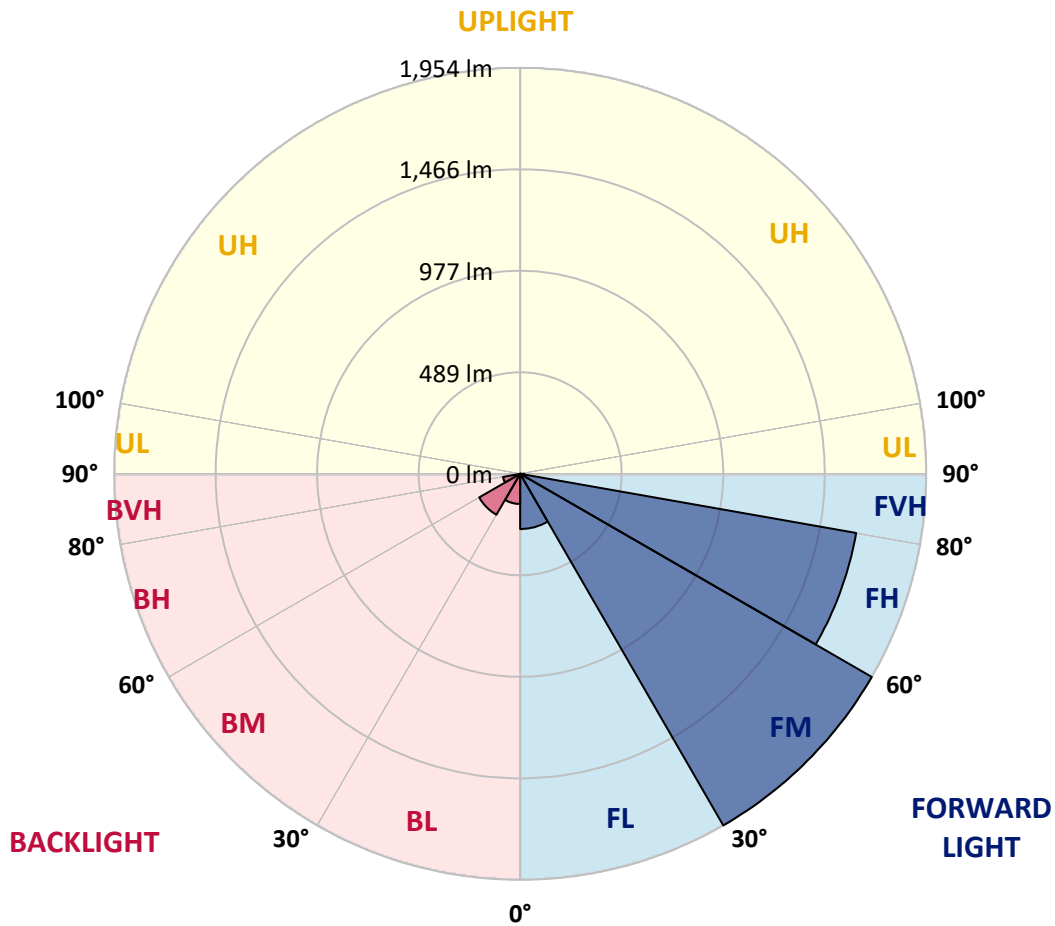
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	265.6	6.1			
FM (30°-60°)	1954.5	45.0			
FH (60°-80°)	1642.4	37.9			G1/1800
FVH (80°-90°)	19.1	0.4			G1/100
BL (0°-30°)	145.3	3.3	B1/500		
BM (30°-60°)	227.7	5.2	B1/1000		
BH (60°-80°)	83.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
2.5°	635.4	641.2	640.4	644.2	645.6	651.0	656.5	663.9	672.1	671.9
5°	599.5	605.3	606.7	611.9	618.4	626.9	638.2	653.0	668.3	670.8
7.5°	557.1	563.1	566.7	577.1	589.1	606.7	625.0	646.7	672.1	675.7
10°	514.6	520.1	524.7	539.5	558.7	584.7	614.6	645.8	680.1	685.3
12.5°	488.3	493.5	498.7	511.6	535.4	567.2	607.8	649.7	693.2	700.6
15°	479.0	483.6	487.7	499.2	521.4	557.6	606.4	657.6	710.0	719.8
17.5°	480.3	482.8	485.5	494.3	516.0	553.2	608.9	671.3	729.7	738.5
20°	488.3	489.7	489.9	496.0	515.1	552.7	613.8	684.5	748.3	760.1
22.5°	498.4	499.0	498.4	502.5	520.3	556.8	620.4	700.4	769.1	780.1
25°	545.8	535.4	522.3	514.3	529.1	564.7	630.2	721.7	791.9	802.6
27.5°	693.0	663.1	616.0	563.1	547.2	576.2	643.9	743.4	814.9	824.5
30°	931.9	892.7	812.7	693.5	605.3	600.4	661.7	765.0	839.3	849.7
32.5°	1171.4	1161.8	1069.5	904.5	736.0	654.1	691.3	794.4	871.6	879.8
35°	1413.6	1394.2	1318.5	1155.5	937.4	763.4	740.7	832.7	914.1	923.4
37.5°	1599.1	1587.3	1540.5	1406.2	1176.3	932.2	825.0	892.2	975.8	986.2
40°	1763.0	1757.5	1741.6	1653.1	1443.5	1153.0	956.3	984.2	1061.2	1073.6
42.5°	1891.8	1904.6	1913.7	1889.0	1718.9	1405.1	1132.8	1113.6	1180.4	1193.0
45°	2023.6	2028.0	2064.4	2100.0	1992.3	1668.7	1331.7	1265.1	1328.7	1344.3
47.5°	2108.2	2125.8	2189.9	2252.6	2222.2	1930.1	1545.4	1444.0	1500.5	1529.8
50°	2114.5	2147.7	2235.9	2345.3	2389.6	2178.9	1777.8	1647.9	1707.9	1740.2
52.5°	2009.6	2061.1	2197.8	2357.9	2480.1	2389.6	2018.1	1851.8	1928.8	1971.0
55°	1540.8	1608.2	2054.5	2289.4	2483.6	2549.4	2252.1	2064.1	2174.8	2222.5
57.5°	1342.4	1376.4	1615.3	2170.4	2417.6	2613.8	2463.6	2266.3	2442.5	2501.7
60°	1116.9	1161.5	1354.7	1975.9	2328.0	2620.1	2650.5	2527.2	2732.7	2799.3
62.5°	759.0	807.5	999.6	1641.6	2205.5	2617.1	2803.7	2795.7	3055.2	3126.7
65°	470.2	500.6	627.2	1340.5	2034.3	2620.4	2964.0	3121.8	3395.5	3468.1
67.5°	371.6	385.5	451.6	1029.2	1739.1	2546.4	3124.0	3428.4	3715.9	3773.4
70°	249.6	258.1	328.5	690.0	1293.9	2205.0	3121.0	3582.4	3880.8	3909.6
72.5°	131.5	138.1	192.1	319.5	781.5	1567.3	2630.8	3398.3	3716.7	3673.4
75°	65.8	76.7	129.3	162.2	333.7	874.1	1633.6	2679.3	2925.3	2757.6
77.5°	49.9	60.3	106.9	106.9	116.2	294.3	691.9	1461.3	1347.9	1122.3
80°	31.8	41.1	93.4	80.8	48.5	74.8	180.3	409.4	286.3	217.8
82.5°	18.6	26.9	77.8	53.4	27.1	27.7	51.0	87.1	74.3	57.8
85°	7.4	17.5	53.4	21.1	10.7	6.9	15.3	18.6	15.3	11.5
87.5°	0.0	4.1	9.3	0.0	0.8	0.5	1.1	1.4	1.4	1.1
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°
676.8	0°	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8	676.8
677.4	2.5°	679.8	680.4	682.0	682.3	678.4	673.5	671.6	670.8	667.5	667.2
681.7	5°	688.0	690.5	688.0	680.9	663.9	640.1	622.0	607.2	593.8	589.7
696.8	7.5°	704.5	706.9	699.5	671.6	628.9	581.5	538.7	508.6	481.4	471.3
715.2	10°	728.0	731.3	708.0	651.6	576.0	499.8	427.5	376.5	336.8	320.6
740.1	12.5°	757.6	759.0	712.7	621.2	507.2	398.4	295.9	241.4	206.1	192.9
770.2	15°	790.2	788.3	713.2	579.8	413.5	281.7	193.2	158.7	144.4	140.0
800.4	17.5°	824.5	816.6	702.3	520.1	310.7	192.6	143.3	135.1	132.6	131.5
830.3	20°	858.2	840.4	682.3	442.0	223.0	143.9	130.2	127.7	126.3	125.8
860.4	22.5°	888.9	858.5	648.0	351.3	161.9	127.1	123.0	120.8	118.4	117.3
889.7	25°	918.8	868.9	599.8	266.6	129.6	118.9	115.6	111.5	108.2	106.9
921.2	27.5°	947.8	875.5	539.5	197.3	115.6	111.2	105.2	99.5	97.0	96.5
954.9	30°	978.8	877.7	471.0	147.1	107.1	101.7	92.9	86.3	84.9	85.2
1000.4	32.5°	1016.6	880.9	402.0	120.6	100.0	90.1	79.7	72.9	71.8	72.9
1066.7	35°	1061.8	887.5	335.4	111.0	93.7	78.4	67.1	61.4	60.3	61.1
1151.7	37.5°	1123.2	898.2	273.2	109.1	88.5	68.5	56.4	51.8	51.8	52.1
1255.8	40°	1204.8	926.7	217.6	107.7	85.8	61.1	47.7	45.8	46.6	47.1
1388.4	42.5°	1304.3	987.3	180.0	106.0	82.8	57.8	43.3	42.5	43.8	44.4
1547.3	45°	1415.8	1064.0	166.9	103.3	80.0	60.0	41.4	40.3	41.9	42.2
1725.4	47.5°	1531.2	1139.1	165.2	100.3	77.3	63.3	40.8	38.4	40.3	40.6
1915.6	50°	1647.9	1188.1	166.9	95.6	72.9	63.3	41.1	36.4	38.1	38.9
2112.9	52.5°	1765.4	1210.6	165.8	85.5	65.2	59.5	41.1	34.8	36.4	37.0
2326.1	55°	1879.4	1206.2	149.1	70.4	55.4	52.6	40.0	33.4	34.5	34.8
2527.5	57.5°	1969.6	1145.1	118.1	54.8	44.9	43.8	36.4	31.8	32.6	32.3
2712.2	60°	2016.7	1010.8	84.4	42.2	35.3	34.5	32.1	29.6	30.1	28.8
2868.6	62.5°	2017.3	833.3	56.4	33.4	28.2	27.4	27.4	26.6	26.0	23.3
2989.7	65°	1974.2	636.3	37.5	26.6	22.7	21.4	23.0	22.7	20.8	17.0
3026.7	67.5°	1876.7	417.0	28.5	20.8	17.5	16.7	18.4	19.2	17.8	14.2
2891.9	70°	1676.1	242.8	23.6	16.2	13.2	12.3	14.8	16.4	14.8	11.5
2471.8	72.5°	1392.2	131.0	19.2	12.1	9.0	8.2	11.8	13.4	11.8	8.5
1586.0	75°	903.4	70.1	14.8	7.9	4.7	5.2	8.8	9.9	8.2	5.5
465.5	77.5°	303.3	31.0	9.3	3.8	2.2	2.2	5.2	6.0	3.8	1.9
84.7	80°	67.7	12.9	3.8	1.6	0.8	0.8	1.1	1.1	0.5	0.0
26.0	82.5°	22.2	5.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6.6	85°	8.5	1.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	87.5°	3.3	0.3	0.0	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>
676.8
667.8
587.2
467.2
313.7
188.8
140.0
131.3
125.2
117.0
106.3
95.9
85.2
72.6
60.8
51.8
47.1
44.4
42.5
40.8
39.2
37.0
34.8
32.3
28.5
22.5
16.4
14.0
11.0
8.2
4.9
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