

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: P945643

Luminaire Tested: **GALN-SB1C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945643
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-SB1C-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6057 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

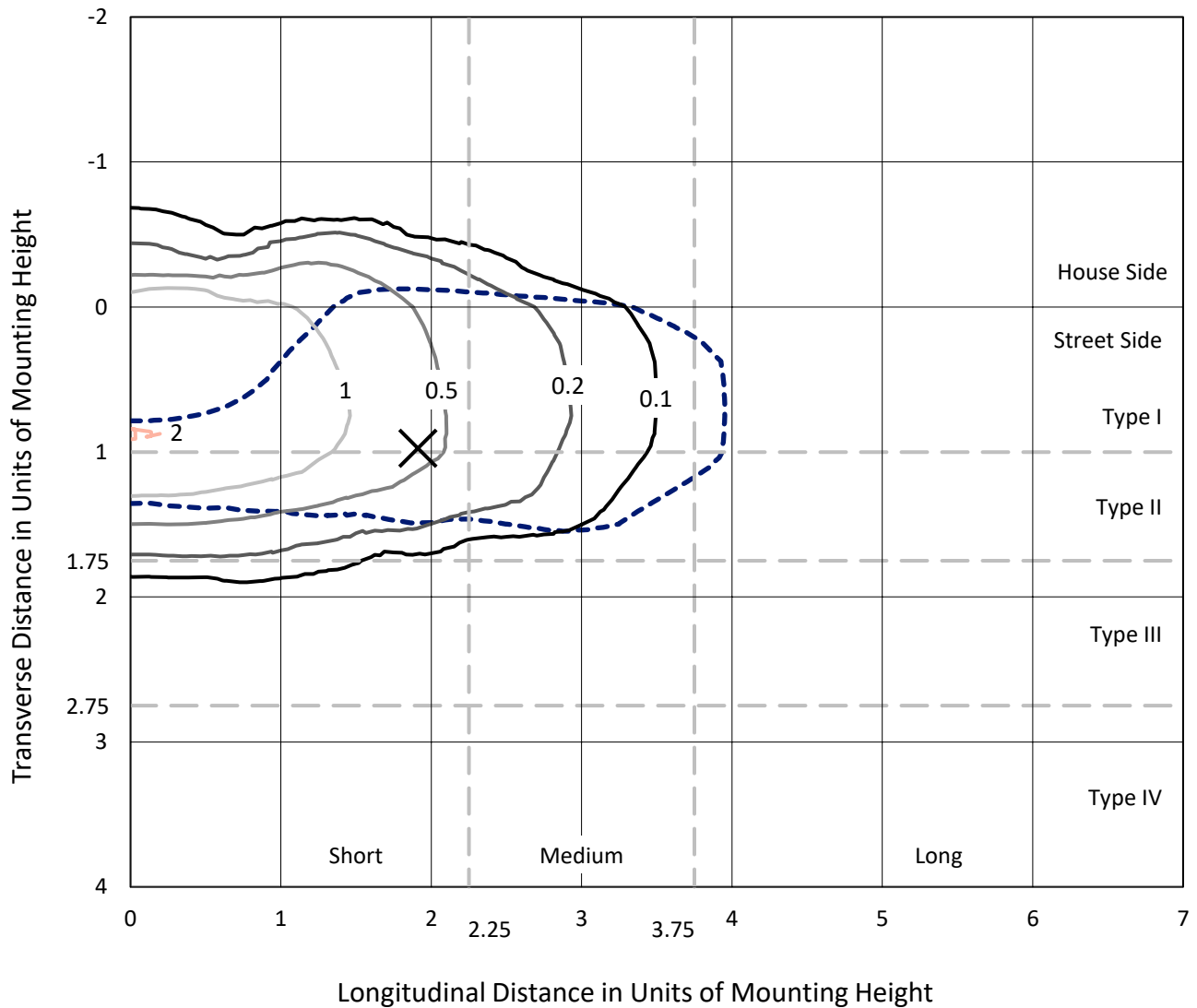
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

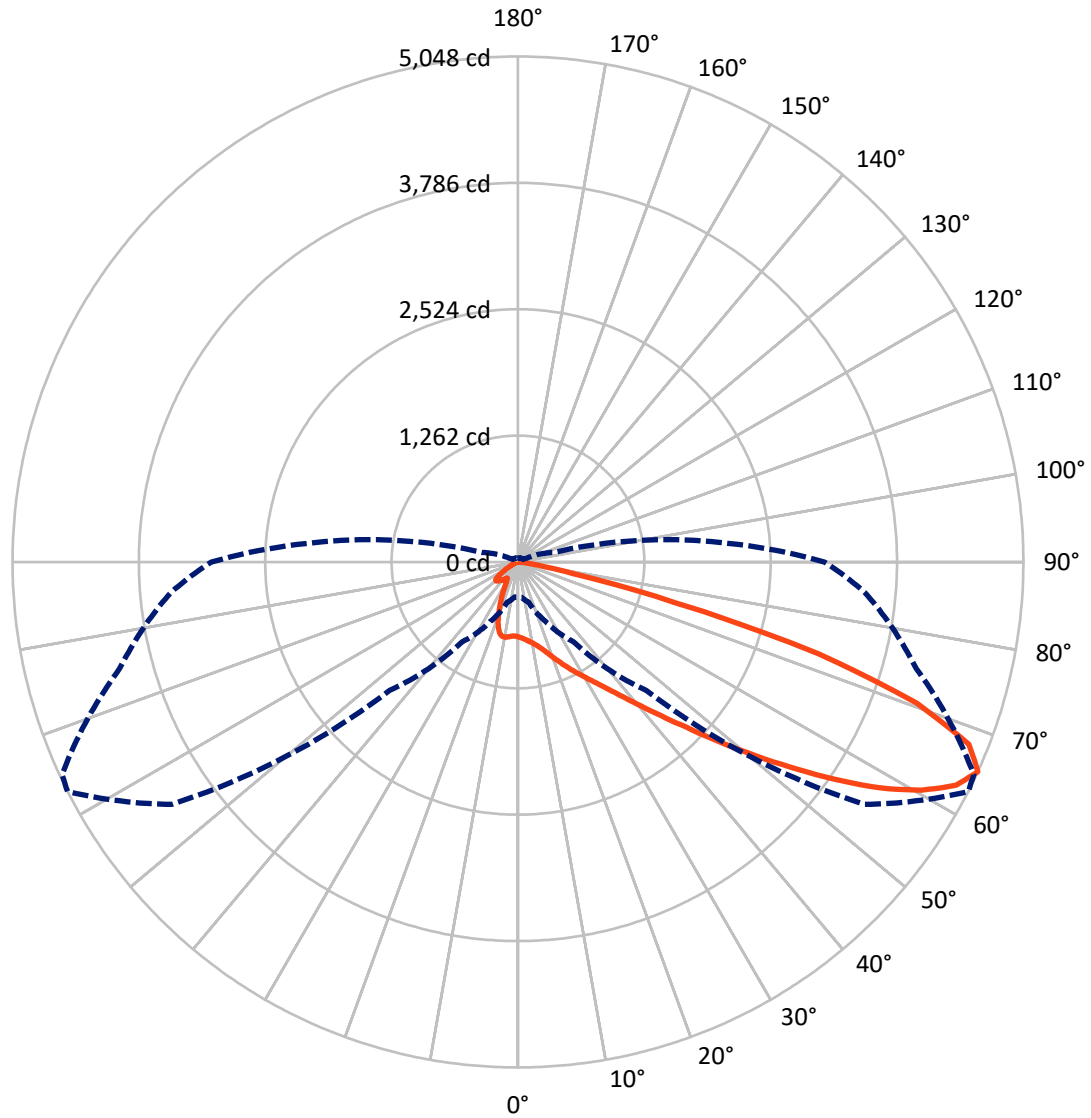
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	890.3	0.0	890.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5166.7	0.0	5166.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	6057.0	0.0	6057.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.2
10°-20°	195.4	3.2
20°-30°	340.3	5.6
30°-40°	613.3	10.1
40°-50°	1216.4	20.1
50°-60°	1657.0	27.4
60°-70°	1322.6	21.8
70°-80°	598.5	9.9
80°-90°	43.0	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°	6057.0	100.0
0°-180°	6057.0	100.0

Coefficient of Utilization



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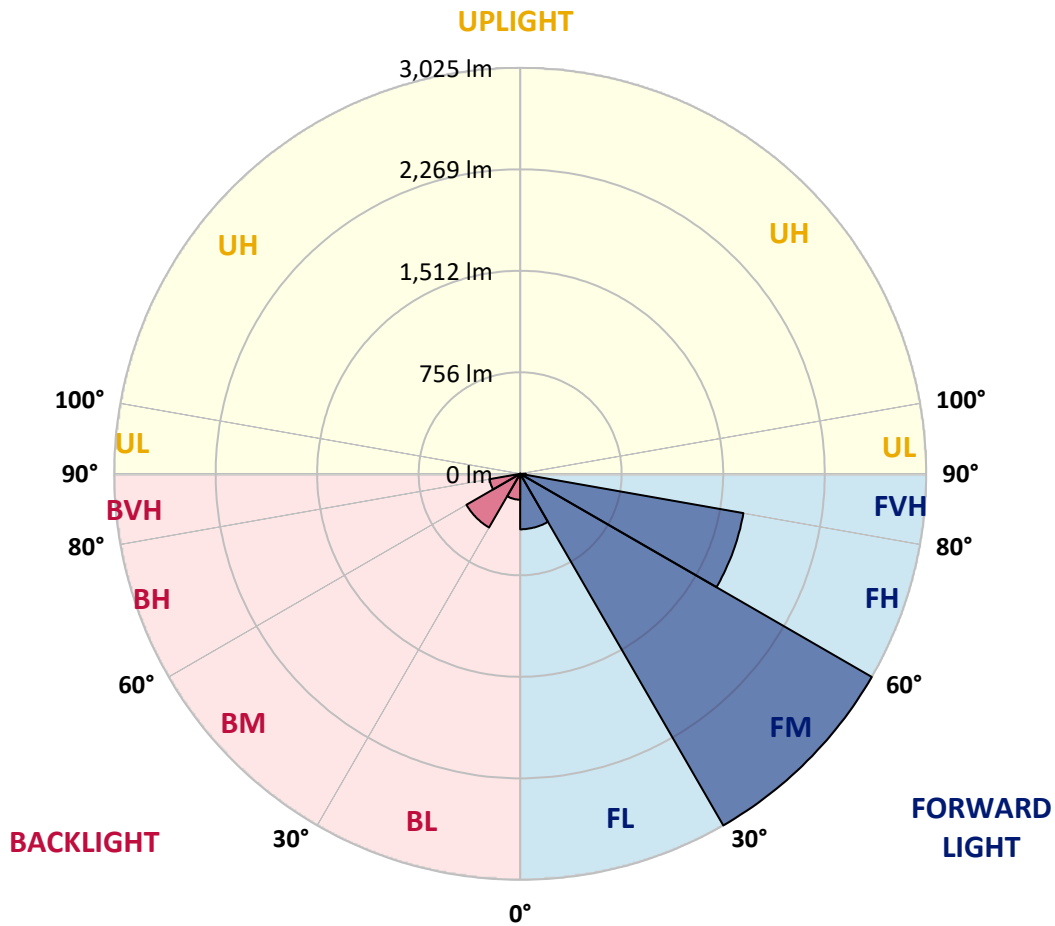
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.5	6.8			
FM (30°-60°)	3024.7	49.9			
FH (60°-80°)	1688.7	27.9			G1/1800
FVH (80°-90°)	39.8	0.7			G1/100
BL (0°-30°)	192.7	3.2	B1/500		
BM (30°-60°)	462.0	7.6	B1/1000		
BH (60°-80°)	232.4	3.8	B1/500		G1/500
BVH (80°-90°)	3.2	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°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
2.5°	765.0	763.0	765.9	764.6	763.8	762.1	761.3	760.5	758.8	757.5
5°	767.1	765.9	768.8	771.3	773.8	776.3	777.6	779.2	777.6	774.2
7.5°	749.6	748.8	755.0	762.5	773.8	783.4	793.8	799.6	800.1	798.8
10°	748.4	746.3	752.5	761.7	776.3	793.4	811.7	824.2	825.9	831.3
12.5°	768.0	765.9	774.6	784.6	799.6	817.6	840.1	857.6	860.1	867.6
15°	800.9	798.0	808.0	820.9	840.1	860.5	884.2	900.1	902.1	911.3
17.5°	839.2	836.3	848.0	861.7	882.6	910.5	938.0	955.5	958.0	963.8
20°	888.4	884.6	893.8	906.3	928.4	961.7	994.6	1019.6	1019.2	1019.2
22.5°	945.5	939.6	947.6	957.6	978.4	1018.8	1062.6	1092.2	1092.2	1080.5
25°	1006.7	1000.9	1009.6	1018.8	1037.2	1083.0	1134.2	1170.9	1172.6	1152.6
27.5°	1083.4	1075.9	1082.6	1093.4	1104.2	1150.9	1211.7	1254.2	1255.1	1224.2
30°	1230.9	1209.7	1188.8	1177.2	1182.2	1228.4	1293.4	1340.5	1344.7	1302.2
32.5°	1500.9	1496.8	1423.4	1327.6	1277.6	1311.8	1384.7	1441.3	1443.8	1389.3
35°	1920.5	1915.5	1797.6	1615.1	1452.2	1423.4	1495.5	1562.6	1560.9	1499.3
37.5°	2421.4	2416.8	2261.4	2017.2	1753.4	1592.2	1638.4	1708.9	1719.3	1638.4
40°	2849.4	2832.3	2733.9	2498.5	2153.5	1872.2	1841.8	1888.5	1899.3	1803.4
42.5°	3173.5	3159.0	3109.0	2961.9	2637.7	2286.4	2081.4	2099.3	2111.4	1996.4
45°	3341.5	3338.1	3358.1	3344.4	3131.0	2794.8	2423.9	2349.3	2353.9	2210.1
47.5°	3365.2	3363.6	3454.8	3584.0	3555.2	3368.1	2863.5	2661.0	2644.8	2451.4
50°	3225.2	3221.9	3396.9	3639.0	3838.6	3849.8	3362.7	3012.3	2976.4	2701.0
52.5°	2778.1	2777.3	3064.8	3467.7	3938.2	4271.5	3856.1	3398.1	3338.1	2965.2
55°	2137.6	2153.1	2482.7	2958.9	3756.5	4474.5	4299.0	3826.5	3734.4	3231.0
57.5°	1514.3	1536.8	1862.6	2286.8	3193.1	4354.4	4598.6	4255.7	4156.5	3496.1
60°	813.4	833.4	1159.7	1665.9	2375.6	3906.9	4756.6	4628.2	4534.5	3747.7
62.5°	484.6	491.3	626.3	1075.5	1606.8	2984.8	4689.5	4912.0	4834.9	3959.0
65°	347.9	349.2	417.1	656.7	975.5	1813.5	4219.0	5047.8	5024.1	4118.2
67.5°	292.9	292.1	320.4	436.3	664.6	908.4	3233.5	4855.7	4956.6	4219.0
70°	251.3	252.5	285.9	319.6	499.6	514.2	1607.6	4227.8	4442.8	4245.7
72.5°	187.1	191.3	222.1	291.3	377.1	353.8	555.0	3134.8	3523.6	4000.3
75°	132.1	134.2	156.3	245.0	281.3	257.5	283.4	1620.5	2118.9	3066.9
77.5°	101.7	105.4	118.3	171.3	277.1	180.8	173.3	560.9	861.7	1852.6
80°	55.0	61.7	85.4	123.8	194.6	127.9	85.8	223.3	292.1	866.3
82.5°	28.3	31.7	59.6	89.2	110.8	111.7	42.5	92.9	120.4	267.5
85°	11.3	13.8	40.0	49.2	57.1	55.0	19.2	37.5	43.3	74.2
87.5°	2.5	4.2	14.6	11.3	10.8	11.7	4.6	8.8	8.3	8.8
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°
747.5	0°	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5	747.5
752.5	2.5°	752.1	750.5	745.9	740.9	735.0	731.7	729.6	729.2	726.3	724.2
769.2	5°	764.6	763.0	754.2	743.8	732.5	723.8	715.5	708.0	697.1	695.0
793.4	7.5°	789.6	785.1	770.9	756.7	735.5	710.0	679.2	643.8	612.1	602.5
825.5	10°	820.5	814.2	796.3	771.3	724.2	655.0	580.5	511.3	456.3	440.9
863.4	12.5°	855.5	850.1	826.3	780.1	677.1	551.7	437.5	351.7	298.4	285.0
903.8	15°	897.1	889.2	856.3	766.7	593.0	419.2	300.4	249.6	230.4	227.9
950.1	17.5°	941.3	928.4	883.0	718.8	479.6	297.9	232.1	217.5	209.2	206.7
996.7	20°	981.7	965.1	898.8	646.3	358.4	232.1	207.9	198.3	190.8	187.9
1043.4	22.5°	1022.1	998.4	898.8	547.5	268.8	205.8	190.8	182.1	173.3	169.6
1093.4	25°	1064.2	1032.6	883.0	437.5	216.3	188.8	174.6	165.0	157.5	152.9
1140.9	27.5°	1105.1	1061.3	846.7	333.4	192.5	173.8	159.6	150.4	143.3	140.0
1192.6	30°	1143.8	1089.7	795.9	252.9	177.1	159.2	145.8	137.9	130.8	127.5
1259.7	32.5°	1196.3	1125.5	741.7	207.5	163.8	145.4	133.3	125.8	119.6	117.1
1346.8	35°	1269.2	1178.4	695.0	203.8	152.5	134.2	122.1	115.0	108.8	106.7
1459.3	37.5°	1372.6	1263.8	670.5	228.8	143.3	124.2	112.9	105.4	99.6	97.9
1602.2	40°	1500.1	1379.7	683.8	253.8	137.1	115.4	104.6	97.1	92.1	90.0
1766.4	42.5°	1651.4	1522.6	757.5	272.9	132.9	107.9	96.7	88.3	85.0	84.2
1952.6	45°	1825.1	1679.7	870.5	293.4	126.3	100.8	88.8	82.5	80.0	79.6
2155.1	47.5°	2022.6	1852.2	1001.3	318.8	119.6	94.2	82.5	78.3	76.3	75.4
2366.4	50°	2218.5	2026.0	1135.9	332.9	114.2	87.9	77.5	74.2	72.5	72.1
2589.8	52.5°	2423.5	2204.7	1244.7	319.6	109.6	82.9	73.3	70.8	69.2	68.8
2795.6	55°	2618.9	2349.3	1263.4	271.3	100.4	77.9	68.8	67.5	65.4	65.4
3004.4	57.5°	2787.3	2421.8	1130.9	199.2	91.3	70.4	64.2	62.9	61.3	60.8
3192.7	60°	2941.9	2401.0	873.0	134.2	81.3	62.9	58.3	57.5	55.8	53.8
3356.5	62.5°	3028.9	2309.3	597.1	87.5	71.3	55.0	51.7	51.3	47.5	43.3
3477.7	65°	3061.9	2121.0	372.5	63.8	59.6	47.1	44.6	43.8	38.3	33.8
3546.5	67.5°	3033.1	1811.0	187.9	50.4	47.1	39.2	36.7	36.7	32.9	28.8
3542.3	70°	2918.1	1357.6	79.2	40.4	36.3	30.0	30.0	31.7	27.9	23.3
3358.6	72.5°	2668.5	913.4	42.1	30.8	27.1	21.3	24.6	25.8	22.1	17.5
2748.9	75°	2121.4	557.1	29.2	22.9	17.1	15.0	18.8	19.6	15.0	11.7
1884.7	77.5°	1450.9	320.0	19.6	14.6	10.8	8.8	12.9	12.1	7.9	5.4
726.7	80°	637.1	133.3	11.3	6.7	4.2	3.3	4.6	3.3	2.5	1.7
99.6	82.5°	74.6	31.3	4.2	2.5	1.7	0.8	0.4	0.0	0.0	0.0
30.4	85°	15.4	3.8	2.1	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5.4	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>
747.5
726.3
694.2
598.0
435.0
281.3
225.4
205.4
186.3
167.5
151.3
140.0
127.9
117.1
106.7
97.5
89.6
84.2
79.2
75.4
72.1
68.8
65.0
60.4
53.3
42.5
33.3
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