

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: P939211

Luminaire Tested: **GALN-SB1C-950-U-SL4-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3638 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

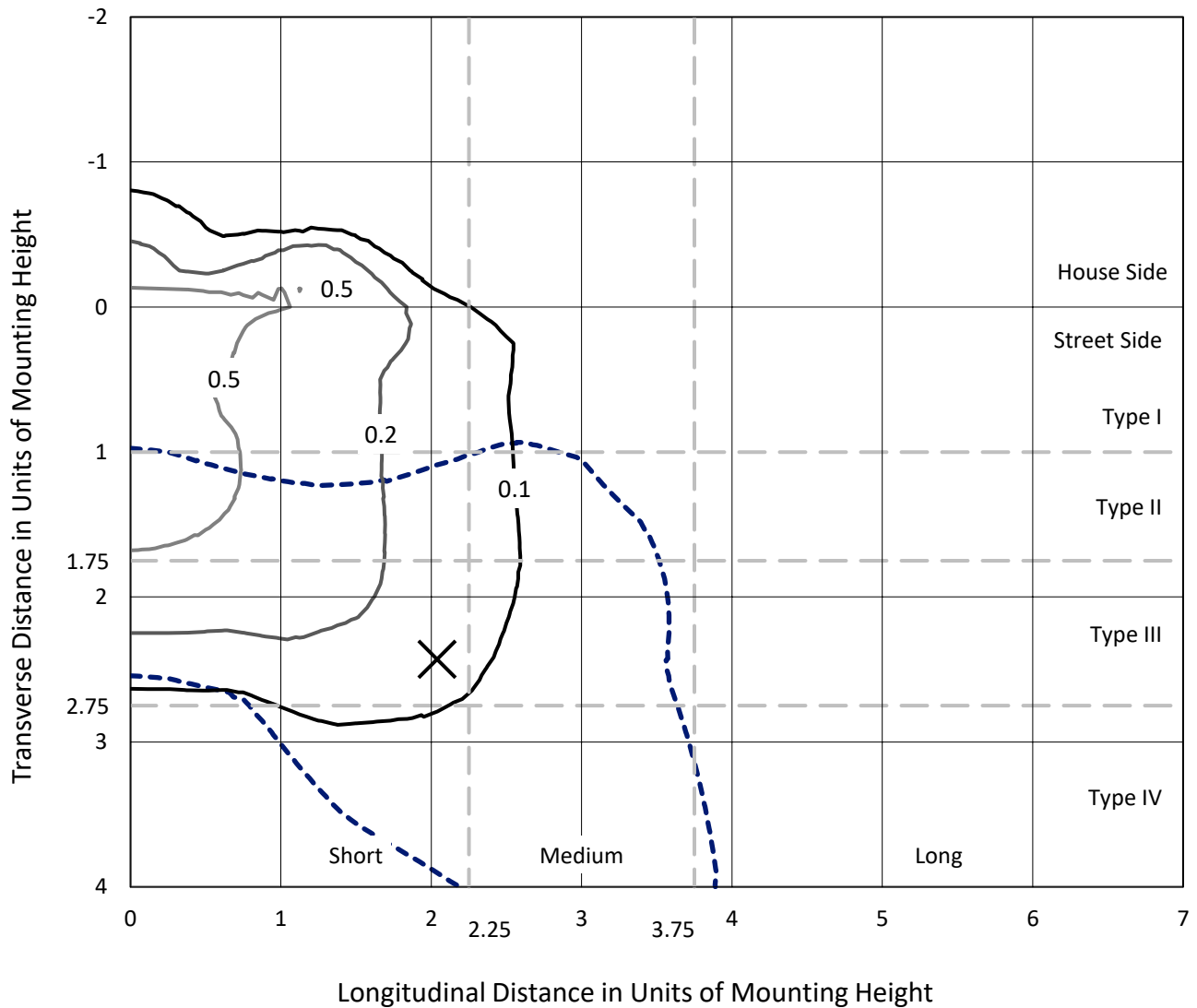
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

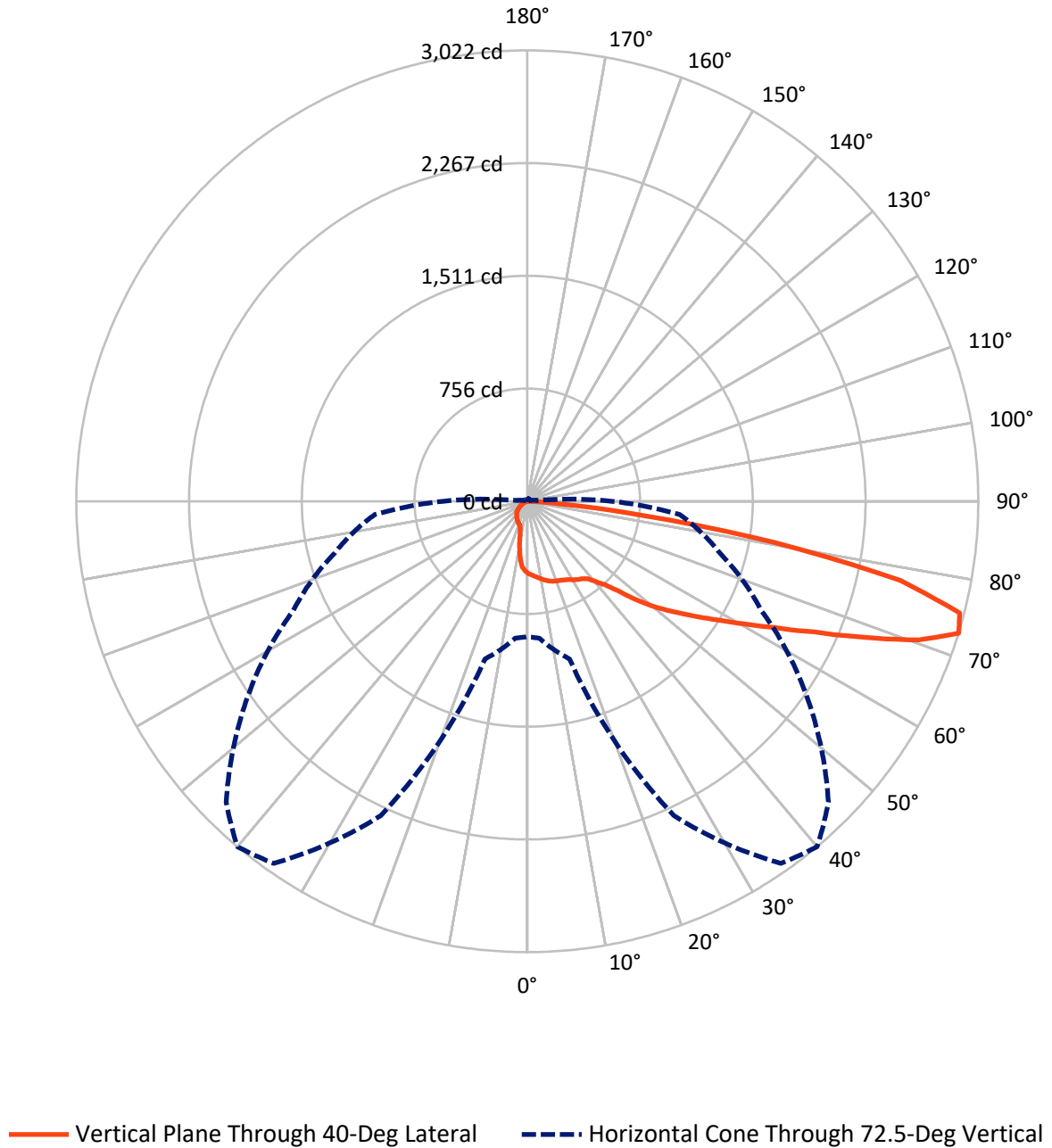
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.8	0.0	469.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3168.2	0.0	3168.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	3638.0	0.0	3638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.2
10°-20°	119.5	3.3
20°-30°	193.3	5.3
30°-40°	285.4	7.8
40°-50°	480.3	13.2
50°-60°	745.8	20.5
60°-70°	933.2	25.7
70°-80°	764.0	21.0
80°-90°	72.5	2.0
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°	3638.0	100.0
0°-180°	3638.0	100.0

Coefficient of Utilization



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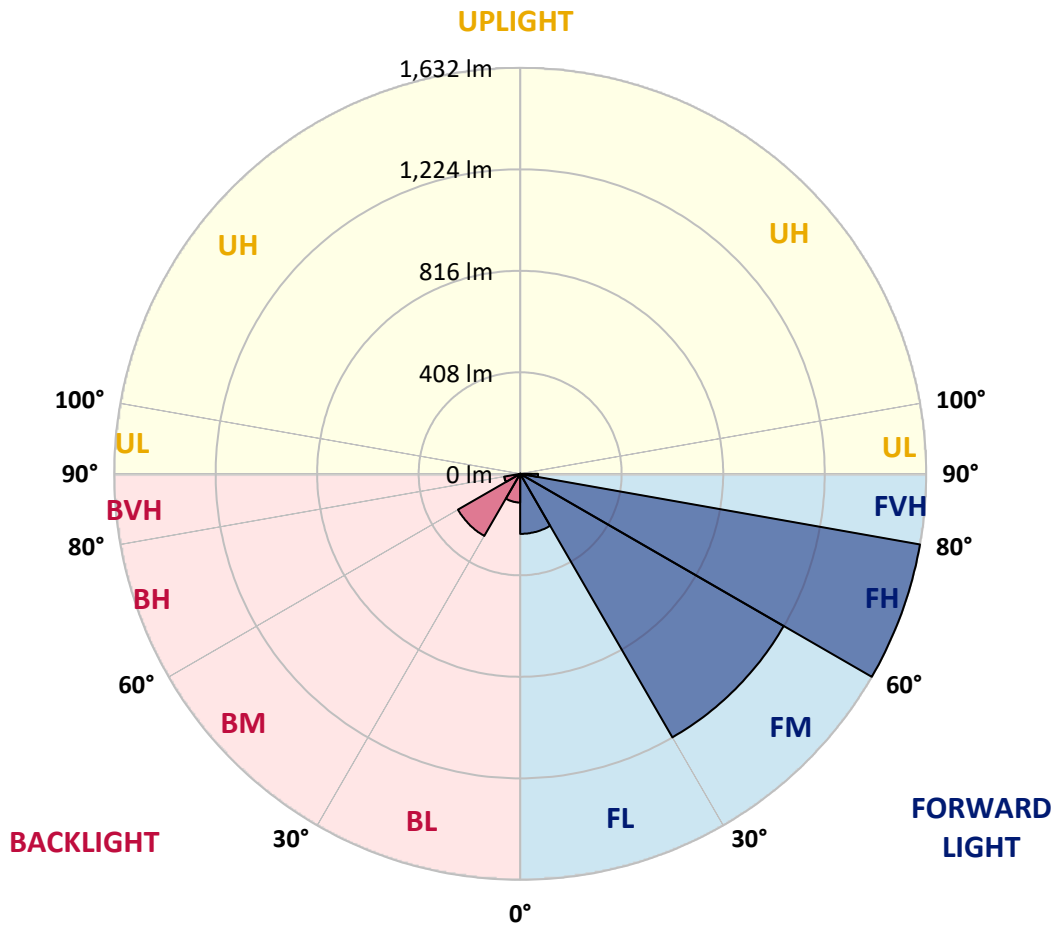
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.5	6.6			
FM (30°-60°)	1223.0	33.6			
FH (60°-80°)	1631.8	44.9			G1/1800
FVH (80°-90°)	71.9	2.0			G1/100
BL (0°-30°)	115.3	3.2	B1/500		
BM (30°-60°)	288.5	7.9	B1/1000		
BH (60°-80°)	65.4	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7
2.5°	496.2	498.1	497.0	494.9	494.3	493.2	491.8	491.3	489.4	487.7
5°	510.2	512.1	510.7	507.7	506.4	505.0	503.1	501.4	497.6	494.0
7.5°	525.5	527.2	525.5	521.2	519.0	517.3	514.6	512.1	507.7	502.5
10°	542.5	543.9	541.4	535.7	532.1	529.7	527.2	524.4	520.3	514.6
12.5°	558.4	560.1	556.2	549.4	545.3	542.8	540.1	537.9	533.8	528.3
15°	572.9	575.4	568.8	561.4	556.8	554.9	552.1	550.7	548.0	544.2
17.5°	583.9	585.5	578.7	569.9	564.7	563.4	561.4	562.3	561.7	559.8
20°	593.2	594.3	585.3	574.6	568.8	569.1	568.6	571.3	572.4	572.4
22.5°	604.7	605.0	593.5	580.1	573.2	575.1	576.0	579.0	581.2	583.4
25°	619.8	619.3	605.6	587.2	581.2	583.9	585.8	586.9	589.4	592.9
27.5°	642.3	640.6	623.1	598.7	591.6	594.0	597.6	597.1	596.0	598.7
30°	670.8	668.6	645.3	614.9	608.3	610.5	611.6	606.6	598.7	601.2
32.5°	716.0	712.1	679.8	633.0	622.8	625.3	623.9	613.8	602.0	604.5
35°	794.6	785.3	739.5	670.8	639.3	636.5	633.2	623.4	608.8	606.4
37.5°	961.8	945.3	867.2	744.5	676.5	658.7	648.6	638.7	616.2	606.4
40°	1150.3	1133.6	1043.4	867.8	738.4	708.3	684.2	656.8	623.9	609.9
42.5°	1347.0	1328.6	1236.0	1020.7	826.9	765.0	720.1	671.3	636.5	620.9
45°	1566.8	1543.7	1422.6	1180.1	955.5	859.3	777.9	701.2	658.4	640.3
47.5°	1798.6	1768.7	1608.7	1335.0	1093.8	989.7	883.7	754.6	690.8	669.4
50°	2004.1	1974.5	1800.8	1496.9	1223.2	1113.8	1004.2	828.6	739.3	710.5
52.5°	2151.8	2129.3	1975.6	1664.0	1357.7	1230.3	1113.6	914.6	800.6	763.1
55°	2250.7	2230.1	2099.4	1822.4	1514.2	1358.5	1221.2	1008.1	874.6	826.1
57.5°	2310.7	2298.9	2189.0	1963.8	1669.2	1498.8	1344.5	1110.8	961.8	900.4
60°	2332.1	2322.5	2244.6	2098.6	1856.7	1667.3	1489.5	1226.7	1067.5	984.8
62.5°	2275.1	2277.0	2284.7	2258.3	2054.2	1864.6	1663.2	1365.9	1184.8	1080.4
65°	2006.8	2022.7	2168.5	2435.4	2315.9	2111.8	1884.3	1535.8	1319.1	1189.2
67.5°	1661.6	1684.6	1866.0	2538.9	2594.8	2432.6	2192.3	1752.3	1479.1	1299.9
70°	1271.9	1296.6	1516.3	2517.3	2856.0	2783.3	2573.2	2027.6	1644.9	1376.6
72.5°	907.8	920.4	1093.6	2324.7	2963.1	3022.3	2853.8	2288.5	1729.5	1334.1
75°	637.9	635.7	750.5	1872.0	2796.2	2993.2	2755.4	2147.4	1565.1	1059.9
77.5°	277.8	278.4	374.8	1136.8	2231.8	2556.5	2290.4	1345.1	1091.1	561.7
80°	72.1	74.3	137.6	452.7	1343.7	1687.3	1396.9	591.3	504.2	137.0
82.5°	25.5	27.1	63.3	142.2	495.7	773.8	622.0	189.1	131.5	39.2
85°	7.4	8.8	34.0	43.6	102.5	218.7	151.0	36.7	32.3	20.3
87.5°	0.0	1.1	6.9	6.0	6.0	4.1	7.7	4.1	5.2	2.5
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°
481.7	0°	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7	481.7
485.8	2.5°	484.2	482.2	478.1	473.8	469.6	465.8	464.7	460.6	458.7	459.0
489.6	5°	486.6	483.1	475.1	465.5	455.7	444.4	435.1	422.0	410.7	409.4
497.0	7.5°	493.2	487.5	474.6	455.9	431.3	400.3	371.6	343.1	326.9	318.1
508.0	10°	503.3	495.7	475.9	440.3	388.0	332.6	289.1	253.2	234.8	226.3
521.4	12.5°	515.4	506.9	478.1	413.7	332.1	259.5	212.4	190.4	186.6	186.0
537.9	15°	532.4	523.1	480.6	377.9	271.5	197.6	175.9	176.2	179.2	180.8
555.7	17.5°	551.3	542.0	477.0	334.0	211.8	168.8	168.2	170.7	175.1	176.7
572.1	20°	570.5	561.7	464.4	282.5	171.3	160.8	163.0	165.8	170.2	172.3
588.3	22.5°	590.2	582.5	444.4	227.7	154.5	155.1	157.8	160.6	165.5	168.0
604.2	25°	611.3	604.7	417.9	182.5	147.4	149.1	152.6	155.9	161.1	164.1
617.6	27.5°	632.7	627.7	387.7	152.3	140.8	142.8	146.9	151.3	156.5	160.0
629.4	30°	656.0	653.2	363.6	141.1	134.5	136.2	140.8	145.8	151.5	155.9
641.2	32.5°	679.8	679.3	351.8	149.3	128.8	129.9	134.0	138.9	146.0	151.5
651.0	35°	703.4	704.5	345.0	172.6	126.9	123.9	126.6	131.0	139.5	146.3
662.3	37.5°	733.5	736.3	344.7	197.8	131.5	117.8	119.7	122.8	130.2	138.1
679.8	40°	778.4	793.0	362.2	219.5	139.7	112.3	112.9	113.4	117.3	123.9
703.1	42.5°	838.2	880.7	425.5	234.3	143.0	107.4	105.5	102.5	101.9	105.5
734.9	45°	912.4	986.7	536.8	242.5	139.7	101.9	96.7	88.8	85.8	88.2
777.9	47.5°	999.8	1102.9	668.6	244.4	134.3	95.1	85.8	75.4	72.9	73.7
835.7	50°	1085.1	1190.0	784.5	228.5	125.2	86.3	73.7	64.9	63.3	63.6
903.9	52.5°	1160.4	1219.9	817.4	191.0	113.2	75.6	63.3	57.3	56.2	56.2
979.3	55°	1210.3	1187.5	728.9	146.0	98.1	64.7	54.3	51.2	50.7	50.4
1063.4	57.5°	1220.7	1082.3	550.5	105.5	76.7	54.5	48.2	46.6	45.5	44.4
1149.7	60°	1183.4	907.0	350.5	73.7	57.5	46.6	42.7	41.6	39.5	37.3
1230.8	62.5°	1102.9	685.0	194.0	51.2	46.3	39.7	37.8	36.4	32.3	28.8
1295.2	65°	994.6	455.4	85.8	40.0	37.8	33.4	32.3	30.4	25.5	21.4
1319.6	67.5°	885.9	262.2	38.6	32.1	30.4	27.4	26.6	25.2	21.6	17.8
1257.4	70°	761.7	132.9	26.6	25.5	23.6	20.8	21.6	21.4	17.8	14.5
1025.6	72.5°	567.2	66.0	20.0	19.2	17.0	14.8	17.8	17.5	14.0	11.0
632.4	75°	321.1	32.6	14.5	13.4	10.1	11.0	14.2	13.4	9.6	7.1
266.9	77.5°	127.4	16.7	9.6	8.2	6.0	7.4	10.4	9.0	4.9	3.0
51.0	80°	29.3	8.2	4.9	3.6	2.7	4.4	5.5	3.3	1.4	0.3
13.7	82.5°	8.2	3.6	1.6	1.4	1.4	1.6	1.4	0.5	0.0	0.0
3.6	85°	2.7	1.6	0.5	0.3	0.3	0.3	0.3	0.0	0.0	0.0
1.1	87.5°	1.1	0.5	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>
481.7
458.7
408.5
317.6
224.7
185.8
180.6
176.5
172.3
168.0
164.1
160.3
156.5
152.1
147.4
139.5
126.0
107.4
88.2
73.4
63.6
55.9
49.9
43.8
36.4
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