

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: P939218

Luminaire Tested: **GALN-SB1C-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3946 lumens
Efficiency: N/A
Efficacy: 72.5 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

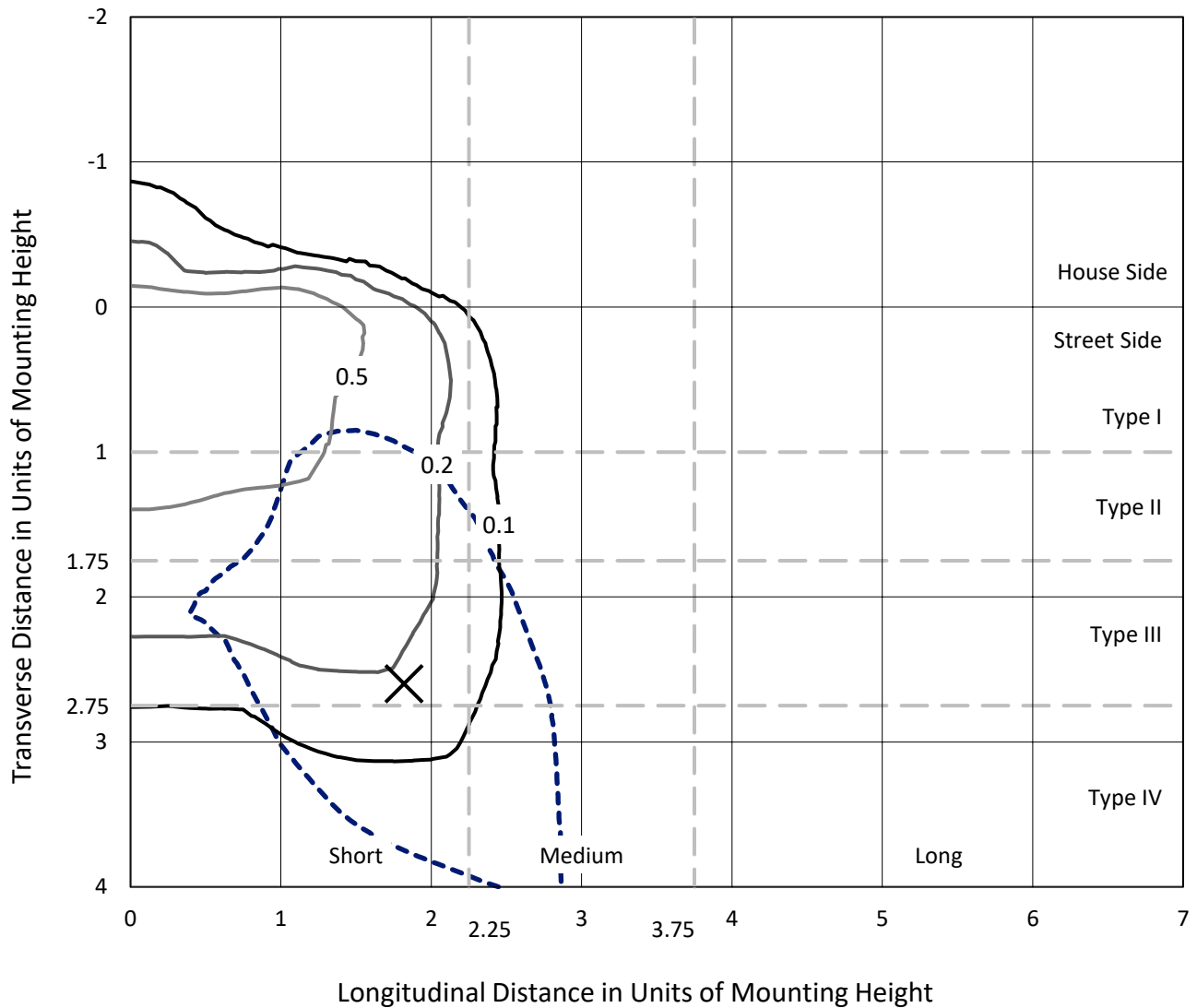
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

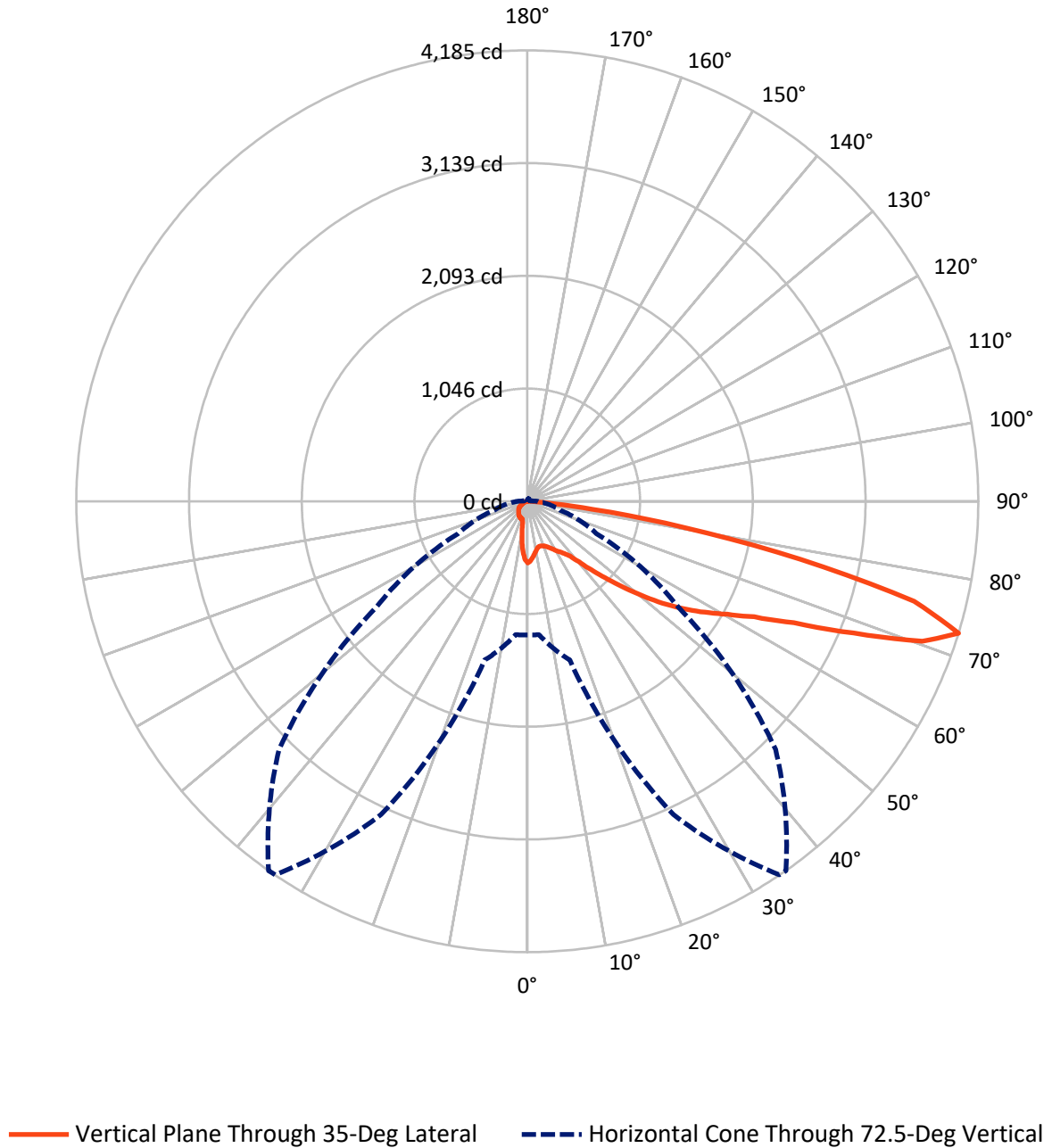
× Max cd
 - - - 1/2 Max cd



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	444.1	0.0	444.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3501.9	0.0	3501.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	3946.0	0.0	3946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	1.2
10°-20°	109.9	2.8
20°-30°	178.6	4.5
30°-40°	298.0	7.6
40°-50°	563.8	14.3
50°-60°	895.9	22.7
60°-70°	1108.3	28.1
70°-80°	688.9	17.5
80°-90°	55.7	1.4
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°	3946.0	100.0
0°-180°	3946.0	100.0

Coefficient of Utilization



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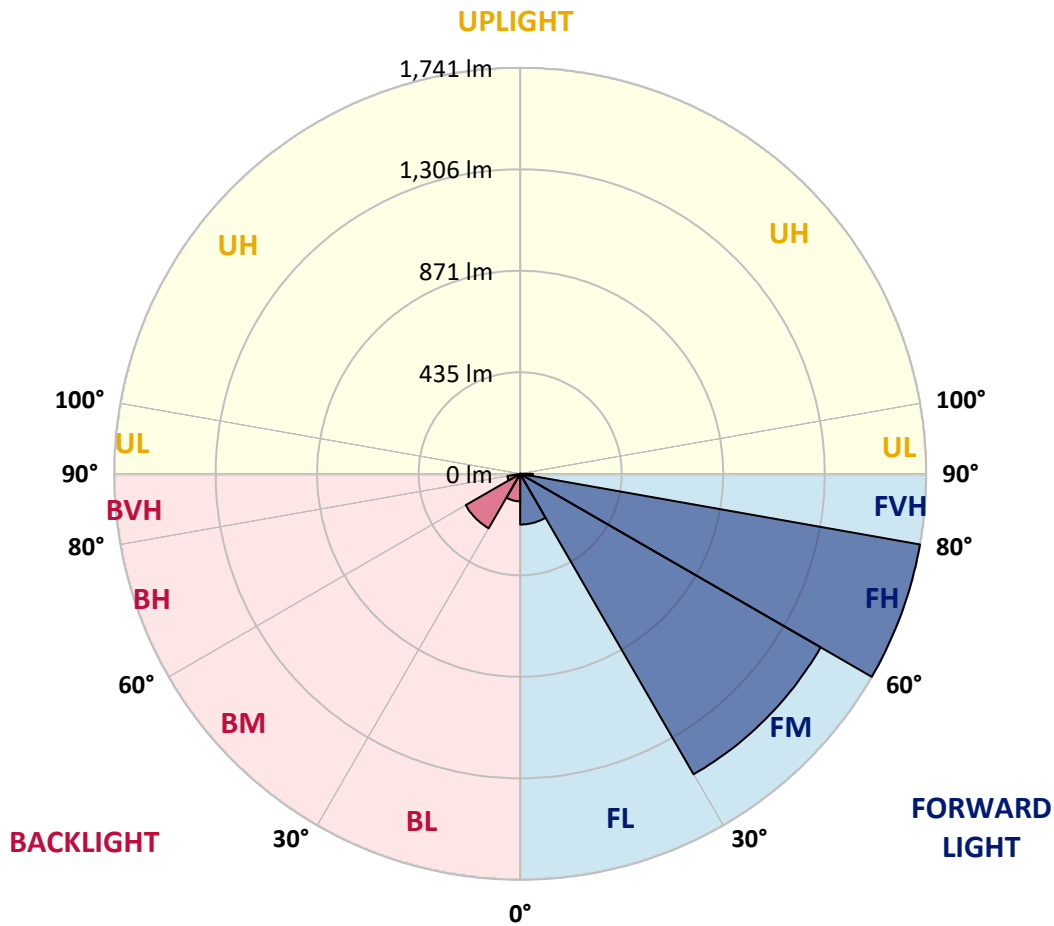
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.5	5.5			
FM (30°-60°)	1488.0	37.7			
FH (60°-80°)	1741.4	44.1			G1/1800
FVH (80°-90°)	54.9	1.4			G1/100
BL (0°-30°)	118.0	3.0	B1/500		
BM (30°-60°)	269.6	6.8	B1/1000		
BH (60°-80°)	55.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.8	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°	34°	35°	45°	55°	65°	75°
0°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9
2.5°	546.5	551.1	552.0	553.4	553.4	555.1	558.0	562.1	568.7	572.2
5°	503.7	507.1	511.5	514.9	521.6	522.5	533.7	544.7	560.1	571.6
7.5°	460.6	464.6	470.4	478.8	487.5	490.1	507.1	525.6	549.9	571.6
10°	430.2	430.5	435.7	444.1	458.0	461.2	482.0	508.3	538.7	568.1
12.5°	413.2	415.2	417.5	423.9	437.2	439.2	461.5	492.4	527.4	566.1
15°	413.2	414.6	416.1	419.2	429.9	431.7	451.3	482.3	521.6	567.0
17.5°	417.5	419.8	418.7	422.4	433.7	434.9	452.2	479.4	521.3	572.5
20°	427.9	429.7	427.3	429.7	440.9	443.2	461.2	484.9	526.2	582.0
22.5°	444.4	445.3	439.8	441.5	453.1	456.0	476.8	500.5	538.1	597.4
25°	465.2	467.0	458.6	460.6	471.6	475.0	499.0	523.9	556.9	618.5
27.5°	489.2	490.1	482.9	482.6	496.7	501.6	525.9	552.8	582.0	645.1
30°	516.7	519.3	512.3	511.2	529.1	533.2	557.2	588.4	619.0	685.0
32.5°	538.4	540.4	536.3	539.2	557.5	560.6	595.0	638.7	677.2	741.6
35°	569.6	570.8	561.5	566.7	587.5	595.6	646.8	709.2	750.3	812.8
37.5°	682.6	682.6	643.3	617.6	637.5	644.8	717.6	798.0	840.5	908.2
40°	839.1	836.5	778.9	726.3	723.7	737.9	818.5	909.9	957.0	1022.7
42.5°	1005.9	1001.9	923.5	871.5	862.8	867.7	935.1	1047.8	1095.8	1162.3
45°	1153.9	1152.8	1081.1	1011.1	995.5	1011.1	1080.5	1209.2	1243.6	1313.5
47.5°	1278.0	1278.0	1225.6	1180.0	1171.9	1181.1	1277.4	1388.1	1385.0	1474.6
50°	1420.8	1419.6	1369.9	1350.3	1358.6	1371.7	1504.1	1576.6	1531.3	1632.7
52.5°	1520.8	1527.8	1510.7	1507.5	1550.3	1572.9	1734.2	1761.1	1662.2	1782.8
55°	1600.1	1608.2	1627.8	1650.1	1732.5	1762.0	1957.2	1936.0	1771.8	1912.9
57.5°	1712.3	1700.7	1731.0	1775.0	1908.3	1943.9	2173.1	2101.1	1860.0	2018.4
60°	1848.4	1850.2	1855.4	1910.9	2083.8	2129.5	2385.9	2257.3	1916.7	2083.2
62.5°	2012.1	2014.7	2025.4	2110.7	2319.4	2362.5	2612.6	2385.1	1942.7	2065.0
65°	2000.8	2011.8	2131.2	2422.9	2677.7	2720.2	2877.2	2474.7	1903.4	1898.5
67.5°	1822.7	1840.6	2040.4	2795.9	3217.8	3265.2	3197.0	2492.3	1733.6	1476.3
70°	1589.1	1595.4	1835.7	3131.3	3843.2	3891.2	3483.2	2298.3	1315.6	823.5
72.5°	1241.0	1242.4	1524.3	3209.1	4182.6	4185.2	3258.5	1706.2	707.5	316.3
75°	886.5	877.8	1020.9	2602.5	3679.8	3709.3	2442.9	800.3	270.3	149.5
77.5°	475.3	484.9	577.7	1543.4	2542.1	2592.4	1332.9	230.7	137.6	101.8
80°	146.9	155.0	236.8	706.6	1439.9	1470.2	494.1	102.6	96.0	72.6
82.5°	46.3	48.0	110.4	296.9	597.6	611.5	143.1	58.1	65.6	48.0
85°	13.3	13.6	49.2	110.7	147.7	150.6	40.2	22.6	37.6	29.8
87.5°	1.4	4.6	18.5	18.5	13.0	12.7	4.3	4.9	10.7	3.8
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°
571.9	0°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9	571.9
574.5	2.5°	573.1	573.4	569.6	563.2	556.3	550.5	543.3	537.5	533.5	532.3
579.7	5°	577.1	575.1	564.4	545.0	521.9	501.9	479.7	462.0	450.5	445.6
585.2	7.5°	583.2	577.4	554.0	515.8	471.6	432.3	392.4	361.4	341.8	331.9
590.4	10°	588.4	576.8	536.6	473.6	405.9	346.4	292.6	255.3	234.5	224.7
596.5	12.5°	593.3	576.5	514.1	423.6	331.9	259.1	209.0	190.5	184.8	182.7
606.3	15°	602.6	577.4	485.7	366.3	258.2	195.7	177.5	177.2	178.4	177.8
621.3	17.5°	615.3	578.3	453.7	305.6	199.2	172.6	171.7	174.3	176.1	175.2
640.1	20°	631.8	581.7	419.5	245.5	171.2	166.8	168.9	171.2	172.6	171.2
665.3	22.5°	654.9	587.8	382.2	197.2	162.2	163.4	165.1	167.7	169.1	167.1
697.4	25°	683.2	597.4	345.5	171.5	157.9	159.3	161.9	164.8	166.5	164.5
737.9	27.5°	719.9	612.7	311.7	165.7	153.5	154.4	158.2	162.5	164.8	162.2
795.4	30°	773.1	637.8	282.5	168.3	150.9	148.9	154.1	160.2	162.8	160.5
873.8	32.5°	843.7	673.4	264.6	172.3	149.8	142.5	147.5	155.3	159.6	158.2
976.1	35°	936.2	727.5	257.6	177.0	148.9	135.9	139.4	147.7	155.3	156.7
1105.1	37.5°	1048.4	802.6	259.6	179.0	146.3	130.4	132.1	139.4	149.2	153.8
1250.2	40°	1175.9	890.2	271.2	177.0	143.4	125.8	126.1	131.6	140.2	147.2
1406.3	42.5°	1307.5	992.6	292.6	169.4	140.8	121.7	120.9	124.6	130.4	135.3
1562.2	45°	1432.7	1097.8	313.7	159.0	137.6	117.7	115.7	117.1	118.3	120.3
1714.0	47.5°	1542.0	1171.9	307.6	149.5	133.3	113.1	109.6	109.0	105.5	105.2
1849.6	50°	1617.4	1188.1	273.2	139.9	126.9	107.8	102.4	98.9	92.8	89.9
1951.1	52.5°	1641.4	1124.2	223.2	130.4	116.5	100.9	93.1	87.6	80.1	77.5
2009.5	55°	1609.6	999.0	178.4	118.8	102.1	91.7	83.0	75.8	69.7	66.5
2015.8	57.5°	1531.8	839.6	141.1	105.2	86.7	81.2	72.6	65.3	60.1	57.0
1945.3	60°	1402.9	666.7	111.6	89.1	74.0	70.0	61.0	56.4	51.8	48.0
1763.1	62.5°	1207.1	475.9	87.6	70.5	61.9	57.2	52.0	48.6	43.1	37.9
1435.6	65°	942.0	291.2	67.7	51.8	49.7	47.4	44.2	41.1	34.4	29.2
936.5	67.5°	594.2	137.9	48.3	39.0	39.3	38.2	36.7	34.1	29.2	24.6
419.5	70°	261.7	66.8	31.8	29.8	29.2	29.2	30.4	29.5	24.9	20.5
145.7	72.5°	89.1	35.9	23.7	22.6	21.1	20.8	25.4	24.6	20.0	15.9
72.6	75°	46.6	24.0	17.3	16.2	12.7	15.3	20.2	19.1	14.2	10.4
48.0	77.5°	30.4	17.1	11.9	10.4	7.2	10.1	15.0	13.3	8.4	5.2
31.5	80°	19.1	11.3	6.9	4.9	3.5	5.5	8.1	5.8	3.2	1.2
18.5	82.5°	10.1	5.8	2.6	1.7	1.4	1.7	2.0	1.4	0.6	0.0
9.5	85°	4.0	2.0	0.9	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.7	87.5°	1.4	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>
571.9
534.3
447.3
333.4
224.9
182.2
177.5
174.9
170.9
166.8
164.2
162.2
160.2
158.2
156.7
155.0
149.5
137.3
121.4
105.0
90.2
77.2
66.5
56.4
47.1
37.0
28.3
24.0
19.7
15.0
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