

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: P939208

Luminaire Tested: **GALN-SB1C-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939208
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-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 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: 4110 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

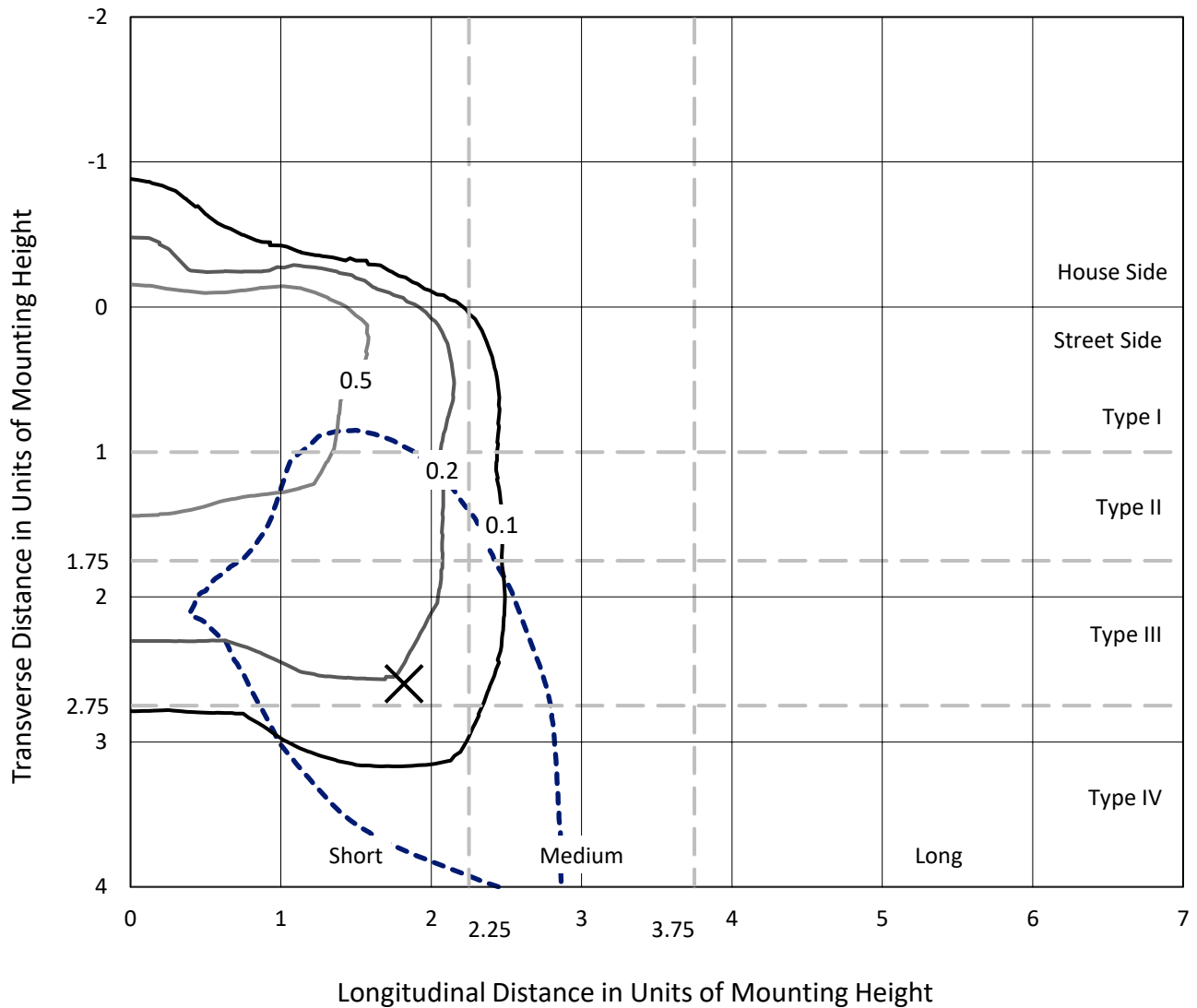
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB1C-940-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

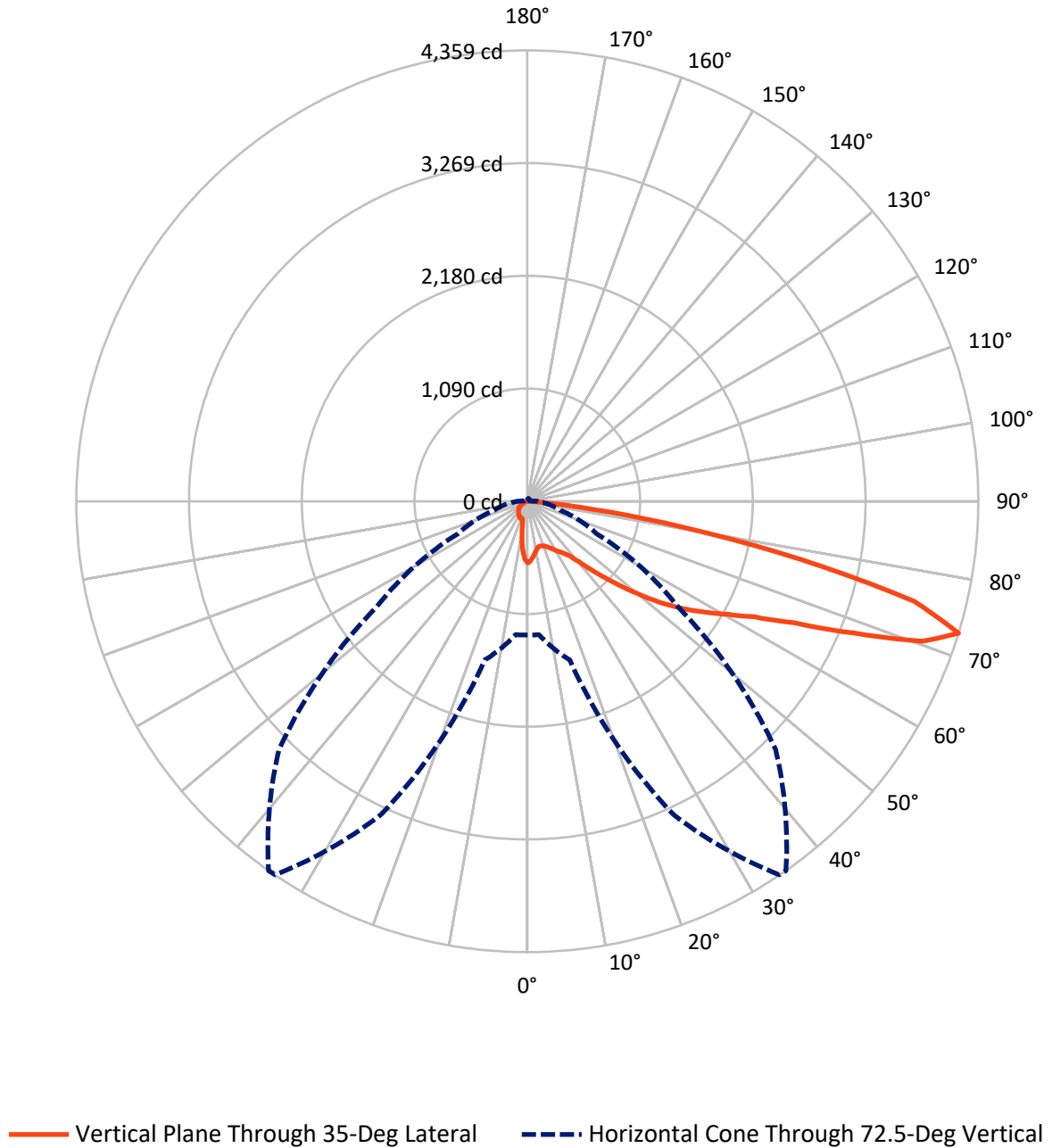
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	462.6	0.0	462.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	3647.4	0.0	3647.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	4110.0	0.0	4110.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	1.2
10°-20°	114.5	2.8
20°-30°	186.0	4.5
30°-40°	310.4	7.6
40°-50°	587.2	14.3
50°-60°	933.1	22.7
60°-70°	1154.3	28.1
70°-80°	717.5	17.5
80°-90°	58.0	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°	4110.0	100.0
0°-180°	4110.0	100.0

Coefficient of Utilization



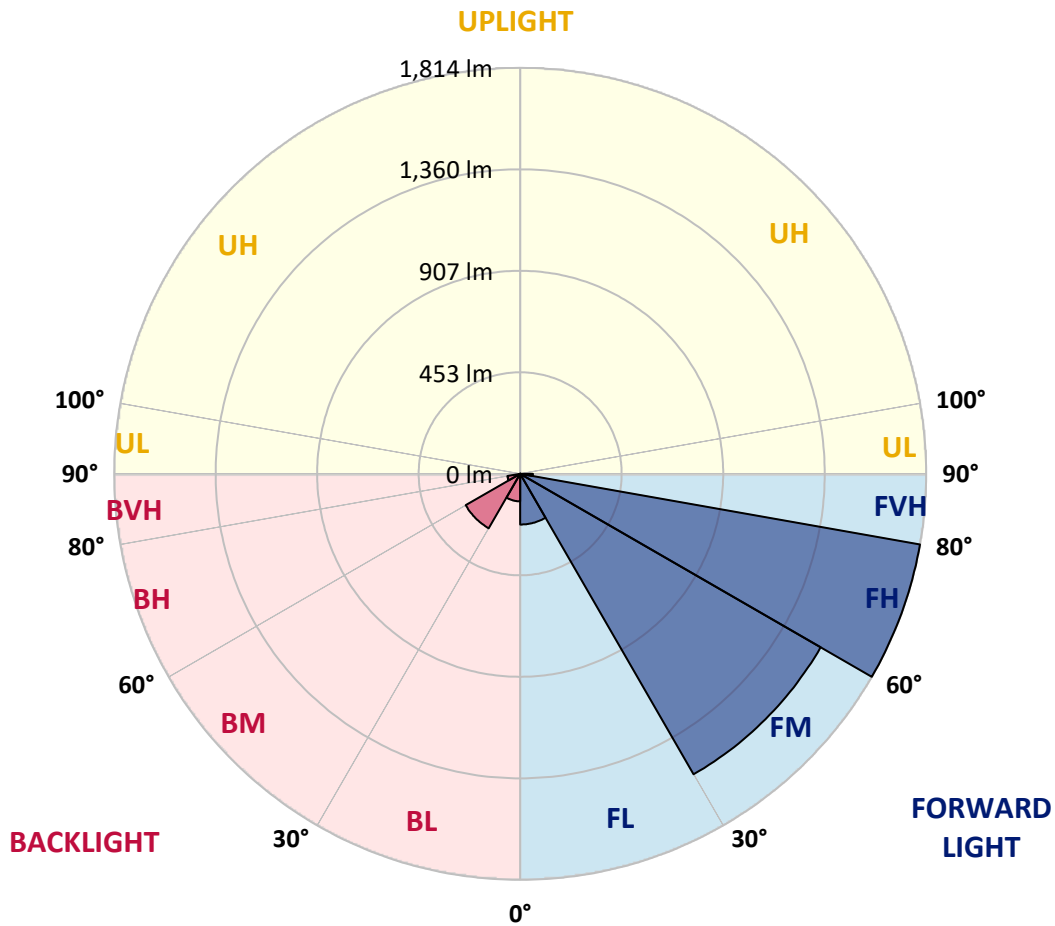
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.6	5.5			
FM (30°-60°)	1549.9	37.7			
FH (60°-80°)	1813.8	44.1			G2/5000
FVH (80°-90°)	57.2	1.4			G1/100
BL (0°-30°)	122.9	3.0	B1/500		
BM (30°-60°)	280.8	6.8	B1/1000		
BH (60°-80°)	58.0	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-G2

Type IV Short



REPORT NUMBER: P939208
 CATALOG NUMBER: GALN-SB1C-940-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7
2.5°	569.2	574.0	574.9	576.4	576.4	578.2	581.2	585.4	592.4	596.0
5°	524.6	528.2	532.7	536.4	543.3	544.2	555.9	567.4	583.3	595.4
7.5°	479.7	483.9	490.0	498.7	507.7	510.5	528.2	547.5	572.8	595.4
10°	448.1	448.4	453.8	462.6	477.0	480.3	502.0	529.4	561.0	591.8
12.5°	430.3	432.5	434.9	441.5	455.3	457.4	480.6	512.9	549.3	589.7
15°	430.3	431.9	433.4	436.7	447.8	449.6	470.1	502.3	543.3	590.6
17.5°	434.9	437.3	436.1	440.0	451.7	452.9	471.0	499.3	543.0	596.3
20°	445.7	447.5	445.1	447.5	459.3	461.7	480.3	505.0	548.1	606.2
22.5°	462.9	463.8	458.1	459.9	471.9	474.9	496.6	521.3	560.4	622.2
25°	484.6	486.4	477.6	479.7	491.2	494.8	519.8	545.7	580.0	644.2
27.5°	509.5	510.5	502.9	502.6	517.4	522.5	547.8	575.8	606.2	671.9
30°	538.2	540.9	533.6	532.4	551.1	555.3	580.3	612.8	644.8	713.4
32.5°	560.7	562.9	558.6	561.6	580.6	583.9	619.8	665.2	705.3	772.5
35°	593.3	594.5	584.8	590.3	611.9	620.4	673.7	738.7	781.5	846.5
37.5°	711.0	711.0	670.1	643.3	664.0	671.6	747.5	831.2	875.4	945.9
40°	873.9	871.2	811.3	756.5	753.8	768.5	852.6	947.7	996.8	1065.2
42.5°	1047.7	1043.5	961.9	907.7	898.6	903.8	973.9	1091.4	1141.4	1210.6
45°	1201.9	1200.7	1126.0	1053.1	1036.9	1053.1	1125.4	1259.4	1295.3	1368.1
47.5°	1331.1	1331.1	1276.6	1229.0	1220.6	1230.2	1330.5	1445.8	1442.5	1535.9
50°	1479.9	1478.7	1426.9	1406.4	1415.1	1428.7	1566.6	1642.2	1594.9	1700.6
52.5°	1584.1	1591.3	1573.5	1570.2	1614.8	1638.3	1806.3	1834.3	1731.3	1856.9
55°	1666.6	1675.0	1695.5	1718.7	1804.5	1835.2	2038.5	2016.5	1845.5	1992.4
57.5°	1783.4	1771.4	1803.0	1848.8	1987.6	2024.6	2263.5	2188.5	1937.3	2102.3
60°	1925.3	1927.1	1932.5	1990.3	2170.4	2218.0	2485.1	2351.1	1996.3	2169.8
62.5°	2095.7	2098.4	2109.6	2198.4	2415.8	2460.7	2721.2	2484.2	2023.4	2150.8
65°	2084.0	2095.4	2219.8	2523.6	2789.0	2833.2	2996.8	2577.6	1982.5	1977.4
67.5°	1898.5	1917.1	2125.2	2912.1	3351.5	3400.9	3329.8	2595.9	1805.7	1537.7
70°	1655.1	1661.8	1912.0	3261.5	4002.9	4052.9	3628.0	2393.8	1370.2	857.7
72.5°	1292.5	1294.0	1587.7	3342.5	4356.5	4359.2	3394.0	1777.1	736.9	329.5
75°	923.3	914.3	1063.4	2710.7	3832.7	3863.5	2544.4	833.6	281.6	155.7
77.5°	495.1	505.0	601.7	1607.5	2647.7	2700.1	1388.3	240.3	143.3	106.0
80°	153.0	161.4	246.6	736.0	1499.7	1531.4	514.7	106.9	100.0	75.6
82.5°	48.2	50.0	115.0	309.3	622.5	636.9	149.1	60.5	68.4	50.0
85°	13.9	14.2	51.2	115.3	153.9	156.9	41.9	23.5	39.1	31.0
87.5°	1.5	4.8	19.3	19.3	13.6	13.3	4.5	5.1	11.1	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939208
 CATALOG NUMBER: GALN-SB1C-940-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
595.7	0°	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7	595.7
598.4	2.5°	596.9	597.2	593.3	586.6	579.4	573.4	565.9	559.8	555.6	554.4
603.8	5°	601.1	599.0	587.8	567.7	543.6	522.8	499.6	481.2	469.2	464.1
609.5	7.5°	607.4	601.4	577.0	537.3	491.2	450.2	408.7	376.4	356.0	345.7
615.0	10°	612.8	600.8	558.9	493.3	422.8	360.8	304.8	265.9	244.2	234.0
621.3	12.5°	618.0	600.5	535.4	441.2	345.7	269.8	217.7	198.5	192.4	190.3
631.5	15°	627.6	601.4	505.9	381.6	268.9	203.9	184.9	184.6	185.8	185.2
647.2	17.5°	640.8	602.3	472.5	318.3	207.5	179.8	178.9	181.6	183.4	182.5
666.7	20°	658.0	605.9	437.0	255.7	178.3	173.8	175.9	178.3	179.8	178.3
692.9	22.5°	682.1	612.2	398.1	205.4	168.9	170.2	172.0	174.7	176.2	174.1
726.4	25°	711.6	622.2	359.9	178.6	164.4	165.9	168.6	171.7	173.5	171.4
768.5	27.5°	749.9	638.1	324.6	172.6	159.9	160.8	164.7	169.2	171.7	168.9
828.5	30°	805.3	664.3	294.2	175.3	157.2	155.1	160.5	166.8	169.5	167.1
910.1	32.5°	878.8	701.4	275.6	179.5	156.0	148.5	153.6	161.7	166.2	164.7
1016.7	35°	975.1	757.7	268.3	184.3	155.1	141.5	145.2	153.9	161.7	163.2
1151.0	37.5°	1092.0	836.0	270.4	186.4	152.4	135.8	137.6	145.2	155.4	160.2
1302.2	40°	1224.8	927.2	282.5	184.3	149.4	131.0	131.3	137.0	146.1	153.3
1464.8	42.5°	1361.8	1033.9	304.8	176.5	146.7	126.8	125.9	129.8	135.8	140.9
1627.1	45°	1492.2	1143.5	326.7	165.6	143.3	122.6	120.5	122.0	123.2	125.3
1785.2	47.5°	1606.0	1220.6	320.4	155.7	138.8	117.8	114.1	113.5	109.9	109.6
1926.5	50°	1684.6	1237.4	284.6	145.8	132.2	112.3	106.6	103.0	96.7	93.7
2032.2	52.5°	1709.6	1170.9	232.5	135.8	121.4	105.1	97.0	91.2	83.4	80.7
2093.0	55°	1676.5	1040.5	185.8	123.8	106.3	95.5	86.4	78.9	72.6	69.3
2099.6	57.5°	1595.5	874.5	147.0	109.6	90.3	84.6	75.6	68.1	62.6	59.3
2026.1	60°	1461.2	694.5	116.2	92.8	77.1	72.9	63.5	58.7	53.9	50.0
1836.4	62.5°	1257.3	495.7	91.2	73.5	64.4	59.6	54.2	50.6	44.9	39.5
1495.2	65°	981.2	303.3	70.5	53.9	51.8	49.4	46.1	42.8	35.8	30.4
975.4	67.5°	618.9	143.6	50.3	40.7	41.0	39.8	38.2	35.5	30.4	25.6
437.0	70°	272.5	69.6	33.1	31.0	30.4	30.4	31.6	30.7	25.9	21.4
151.8	72.5°	92.8	37.3	24.7	23.5	22.0	21.7	26.5	25.6	20.8	16.6
75.6	75°	48.5	25.0	18.1	16.9	13.3	16.0	21.1	19.9	14.8	10.8
50.0	77.5°	31.6	17.8	12.3	10.8	7.5	10.5	15.7	13.9	8.7	5.4
32.8	80°	19.9	11.7	7.2	5.1	3.6	5.7	8.4	6.0	3.3	1.2
19.3	82.5°	10.5	6.0	2.7	1.8	1.5	1.8	2.1	1.5	0.6	0.0
9.9	85°	4.2	2.1	0.9	0.6	0.3	0.0	0.6	0.3	0.0	0.0
1.8	87.5°	1.5	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>
595.7
556.5
465.9
347.2
234.3
189.7
184.9
182.2
178.0
173.8
171.1
168.9
166.8
164.7
163.2
161.4
155.7
143.0
126.5
109.3
94.0
80.4
69.3
58.7
49.1
38.5
29.5
25.0
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