

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: P939558

Luminaire Tested: **GALN-SB2A-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939558
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-SB2A-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4725 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

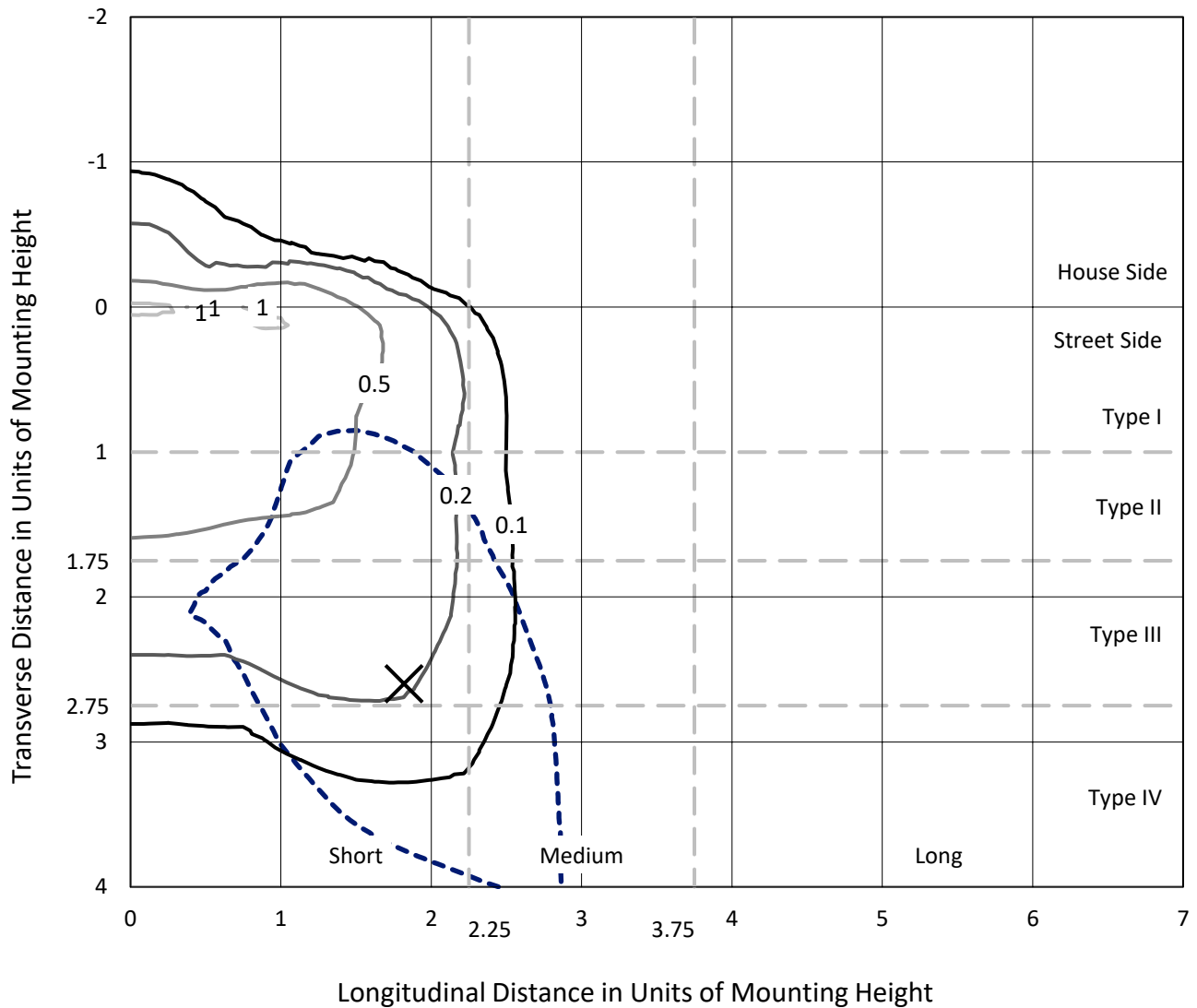
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

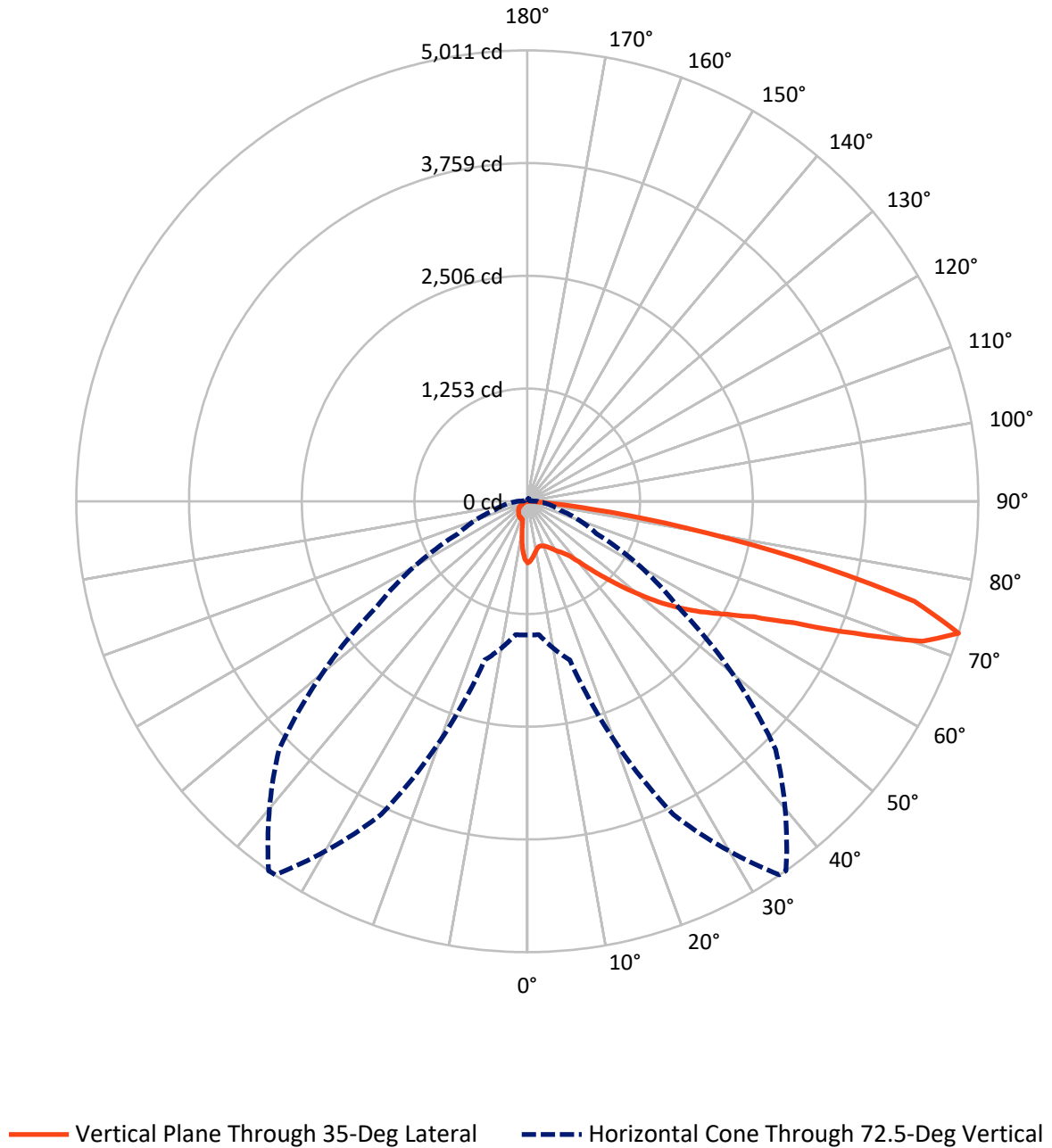
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	531.8	0.0	531.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4193.2	0.0	4193.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	4725.0	0.0	4725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.2
10°-20°	131.6	2.8
20°-30°	213.9	4.5
30°-40°	356.8	7.6
40°-50°	675.1	14.3
50°-60°	1072.7	22.7
60°-70°	1327.0	28.1
70°-80°	824.9	17.5
80°-90°	66.7	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°	4725.0	100.0
0°-180°	4725.0	100.0

Coefficient of Utilization



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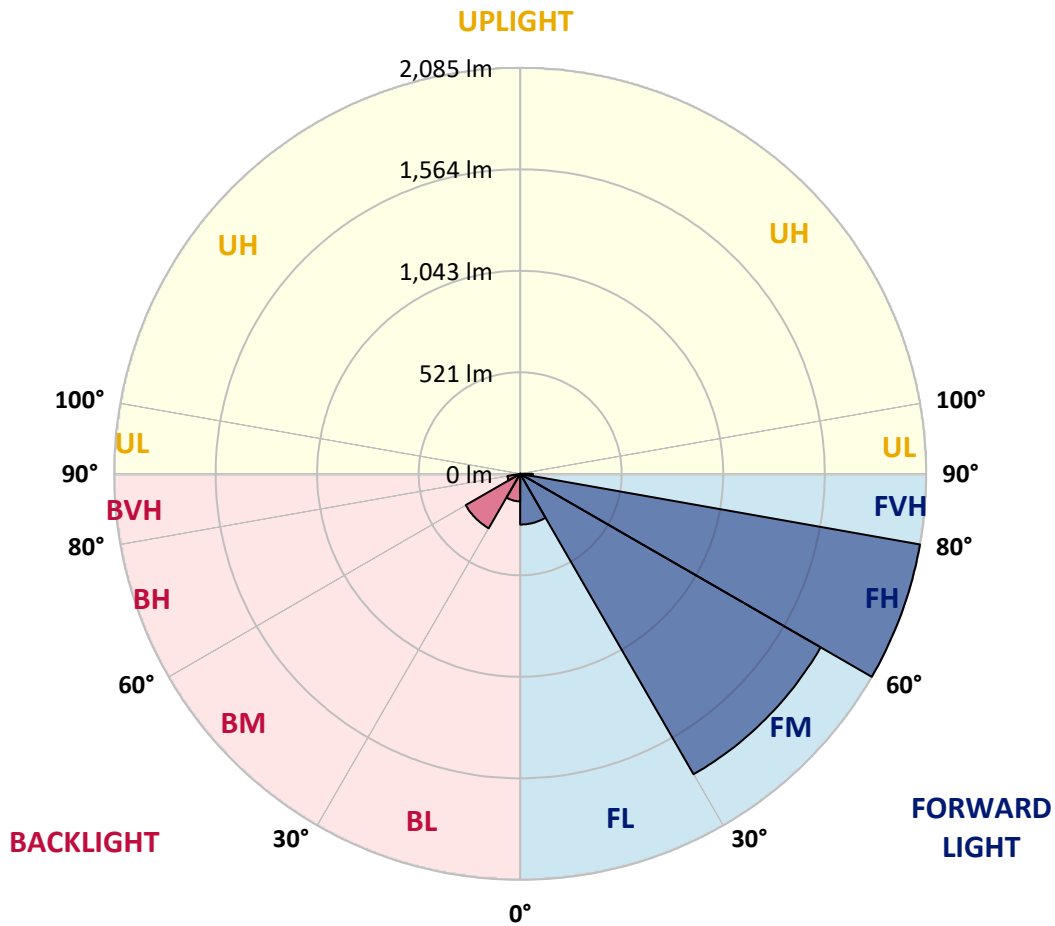
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.5	5.5			
FM (30°-60°)	1781.8	37.7			
FH (60°-80°)	2085.2	44.1			G2/5000
FVH (80°-90°)	65.8	1.4			G1/100
BL (0°-30°)	141.3	3.0	B1/500		
BM (30°-60°)	322.8	6.8	B1/1000		
BH (60°-80°)	66.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8
2.5°	654.3	659.9	660.9	662.7	662.7	664.7	668.2	673.0	681.0	685.2
5°	603.1	607.3	612.5	616.6	624.6	625.6	639.1	652.3	670.6	684.5
7.5°	551.5	556.4	563.3	573.3	583.7	586.8	607.3	629.4	658.5	684.5
10°	515.2	515.5	521.7	531.8	548.4	552.2	577.1	608.6	645.0	680.3
12.5°	494.7	497.2	499.9	507.5	523.5	525.9	552.6	589.6	631.5	677.9
15°	494.7	496.5	498.2	502.0	514.8	516.9	540.4	577.5	624.6	678.9
17.5°	499.9	502.7	501.3	505.8	519.3	520.7	541.5	574.0	624.2	685.5
20°	512.4	514.5	511.7	514.5	528.0	530.7	552.2	580.6	630.1	696.9
22.5°	532.1	533.2	526.6	528.7	542.5	546.0	570.9	599.3	644.3	715.3
25°	557.1	559.1	549.1	551.5	564.7	568.8	597.6	627.3	666.8	740.6
27.5°	585.8	586.8	578.2	577.8	594.8	600.7	629.8	662.0	696.9	772.4
30°	618.7	621.8	613.5	612.1	633.6	638.4	667.2	704.5	741.2	820.2
32.5°	644.7	647.1	642.2	645.7	667.5	671.3	712.5	764.8	810.8	888.0
35°	682.0	683.4	672.3	678.6	703.5	713.2	774.5	849.3	898.4	973.2
37.5°	817.4	817.4	770.3	739.5	763.4	772.1	859.3	955.6	1006.4	1087.5
40°	1004.7	1001.6	932.7	869.7	866.6	883.5	980.1	1089.5	1146.0	1224.6
42.5°	1204.5	1199.6	1105.8	1043.5	1033.1	1039.0	1119.7	1254.7	1312.2	1391.8
45°	1381.7	1380.4	1294.5	1210.7	1192.0	1210.7	1293.8	1447.9	1489.1	1572.8
47.5°	1530.3	1530.3	1467.6	1412.9	1403.2	1414.3	1529.6	1662.2	1658.4	1765.7
50°	1701.3	1699.9	1640.4	1616.8	1626.9	1642.4	1801.0	1887.9	1833.5	1955.1
52.5°	1821.1	1829.4	1809.0	1805.2	1856.4	1883.4	2076.6	2108.8	1990.4	2134.8
55°	1915.9	1925.6	1949.2	1975.8	2074.5	2109.8	2343.5	2318.2	2121.6	2290.6
57.5°	2050.3	2036.4	2072.8	2125.4	2285.0	2327.6	2602.1	2515.9	2227.2	2416.9
60°	2213.3	2215.4	2221.7	2288.1	2495.2	2549.9	2857.0	2702.9	2295.1	2494.5
62.5°	2409.3	2412.4	2425.2	2527.4	2777.3	2828.9	3128.4	2855.9	2326.2	2472.7
65°	2395.8	2409.0	2551.9	2901.3	3206.3	3257.2	3445.2	2963.2	2279.1	2273.2
67.5°	2182.5	2204.0	2443.2	3347.9	3853.0	3909.8	3828.1	2984.4	2075.9	1767.8
70°	1902.8	1910.4	2198.1	3749.5	4601.9	4659.3	4170.8	2752.1	1575.3	986.0
72.5°	1485.9	1487.7	1825.2	3842.6	5008.3	5011.4	3901.8	2043.0	847.2	378.8
75°	1061.5	1051.1	1222.5	3116.3	4406.3	4441.6	2925.2	958.3	323.7	179.0
77.5°	569.2	580.6	691.7	1848.1	3043.9	3104.2	1596.0	276.3	164.8	121.9
80°	175.9	185.6	283.5	846.1	1724.1	1760.5	591.7	122.9	114.9	86.9
82.5°	55.4	57.5	132.3	355.6	715.6	732.2	171.4	69.6	78.6	57.5
85°	15.9	16.3	58.9	132.6	176.9	180.4	48.1	27.0	45.0	35.7
87.5°	1.7	5.5	22.2	22.2	15.6	15.2	5.2	5.9	12.8	4.5
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°
684.8	0°	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8	684.8
687.9	2.5°	686.2	686.5	682.0	674.4	666.1	659.2	650.5	643.6	638.8	637.4
694.2	5°	691.0	688.6	675.8	652.6	624.9	601.0	574.4	553.2	539.4	533.5
700.7	7.5°	698.3	691.4	663.3	617.6	564.7	517.6	469.8	432.8	409.2	397.5
707.0	10°	704.5	690.7	642.6	567.1	486.1	414.8	350.4	305.7	280.8	269.0
714.2	12.5°	710.4	690.4	615.6	507.2	397.5	310.2	250.3	228.2	221.2	218.8
726.0	15°	721.5	691.4	581.6	438.7	309.2	234.4	212.6	212.2	213.6	212.9
744.0	17.5°	736.7	692.4	543.2	365.9	238.5	206.7	205.7	208.8	210.8	209.8
766.5	20°	756.5	696.6	502.4	293.9	205.0	199.8	202.2	205.0	206.7	205.0
796.6	22.5°	784.2	703.9	457.7	236.1	194.2	195.6	197.7	200.8	202.5	200.1
835.1	25°	818.1	715.3	413.7	205.3	189.0	190.8	193.9	197.3	199.4	197.0
883.5	27.5°	862.1	733.6	373.2	198.4	183.8	184.9	189.4	194.6	197.3	194.2
952.4	30°	925.8	763.7	338.3	201.5	180.7	178.3	184.5	191.8	194.9	192.1
1046.3	32.5°	1010.3	806.3	316.8	206.3	179.3	170.7	176.6	185.9	191.1	189.4
1168.8	35°	1121.0	871.1	308.5	211.9	178.3	162.7	166.9	176.9	185.9	187.6
1323.2	37.5°	1255.4	961.1	310.9	214.3	175.2	156.1	158.2	166.9	178.6	184.2
1497.0	40°	1408.1	1066.0	324.7	211.9	171.7	150.6	150.9	157.5	167.9	176.2
1684.0	42.5°	1565.6	1188.6	350.4	202.9	168.6	145.8	144.7	149.2	156.1	162.0
1870.6	45°	1715.5	1314.6	375.6	190.4	164.8	140.9	138.5	140.2	141.6	144.0
2052.4	47.5°	1846.4	1403.2	368.4	179.0	159.6	135.4	131.2	130.5	126.4	126.0
2214.7	50°	1936.7	1422.6	327.2	167.6	152.0	129.1	122.6	118.4	111.1	107.7
2336.3	52.5°	1965.5	1346.1	267.3	156.1	139.5	120.8	111.5	104.9	95.9	92.8
2406.2	55°	1927.4	1196.2	213.6	142.3	122.2	109.7	99.4	90.7	83.4	79.6
2413.8	57.5°	1834.2	1005.4	169.0	126.0	103.9	97.3	86.9	78.2	72.0	68.2
2329.3	60°	1679.8	798.4	133.6	106.6	88.6	83.8	73.1	67.5	62.0	57.5
2111.2	62.5°	1445.4	569.9	104.9	84.5	74.1	68.6	62.3	58.2	51.6	45.4
1719.0	65°	1128.0	348.6	81.0	62.0	59.5	56.8	53.0	49.2	41.2	35.0
1121.4	67.5°	711.5	165.1	57.8	46.7	47.1	45.7	44.0	40.9	35.0	29.4
502.4	70°	313.3	80.0	38.1	35.7	35.0	35.0	36.4	35.3	29.8	24.6
174.5	72.5°	106.6	42.9	28.4	27.0	25.3	24.9	30.5	29.4	23.9	19.0
86.9	75°	55.7	28.7	20.8	19.4	15.2	18.3	24.2	22.9	17.0	12.5
57.5	77.5°	36.4	20.4	14.2	12.5	8.7	12.1	18.0	15.9	10.0	6.2
37.7	80°	22.9	13.5	8.3	5.9	4.2	6.6	9.7	6.9	3.8	1.4
22.2	82.5°	12.1	6.9	3.1	2.1	1.7	2.1	2.4	1.7	0.7	0.0
11.4	85°	4.8	2.4	1.0	0.7	0.3	0.0	0.7	0.3	0.0	0.0
2.1	87.5°	1.7	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>
684.8
639.8
535.6
399.2
269.4
218.1
212.6
209.5
204.6
199.8
196.6
194.2
191.8
189.4
187.6
185.6
179.0
164.5
145.4
125.7
108.0
92.4
79.6
67.5
56.4
44.3
33.9
28.7
23.5
18.0
11.4
5.5
1.0
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