

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: P941248

Luminaire Tested: **GALN-SB4C-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941248
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-SB4C-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA 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: 16468 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

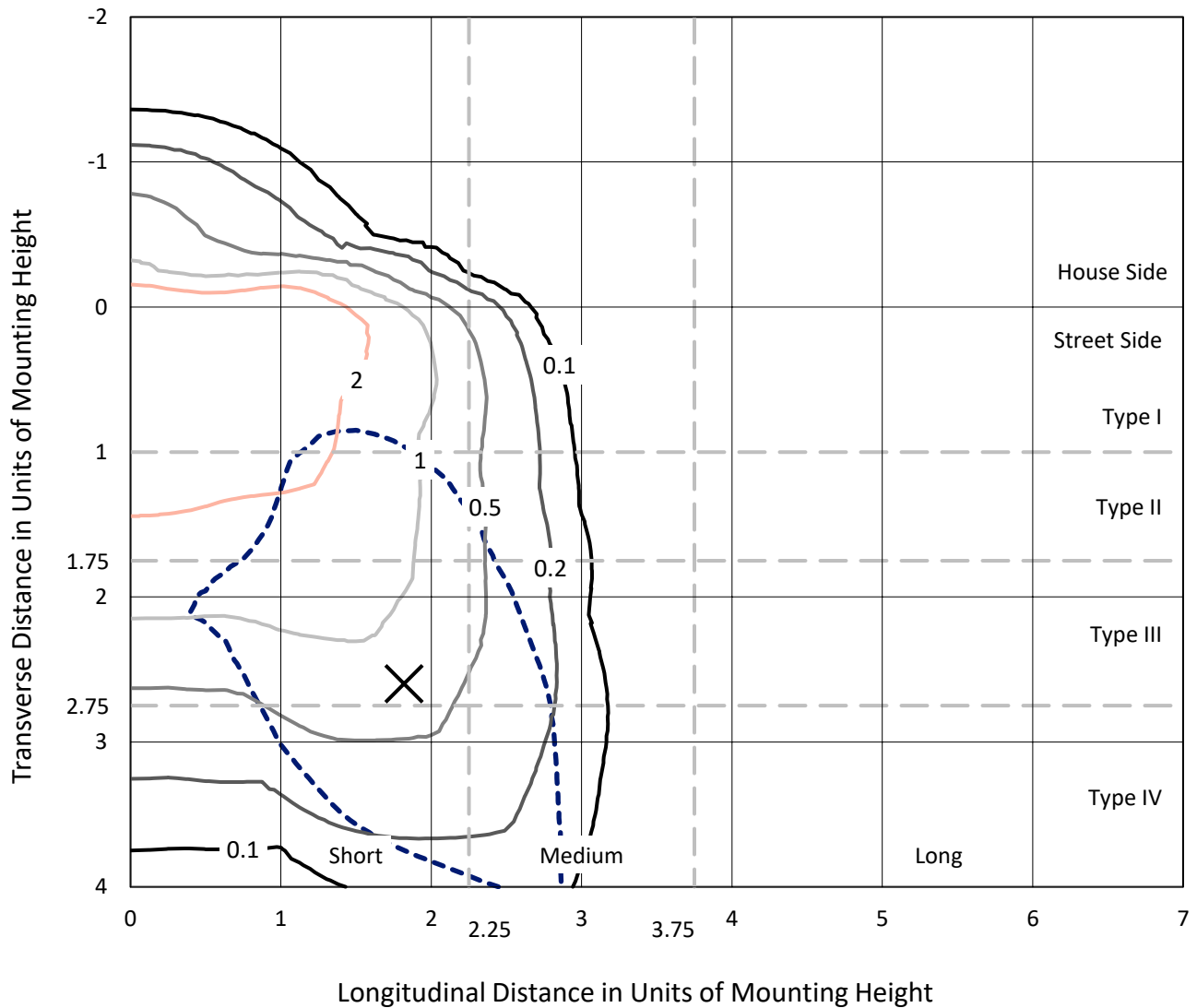
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

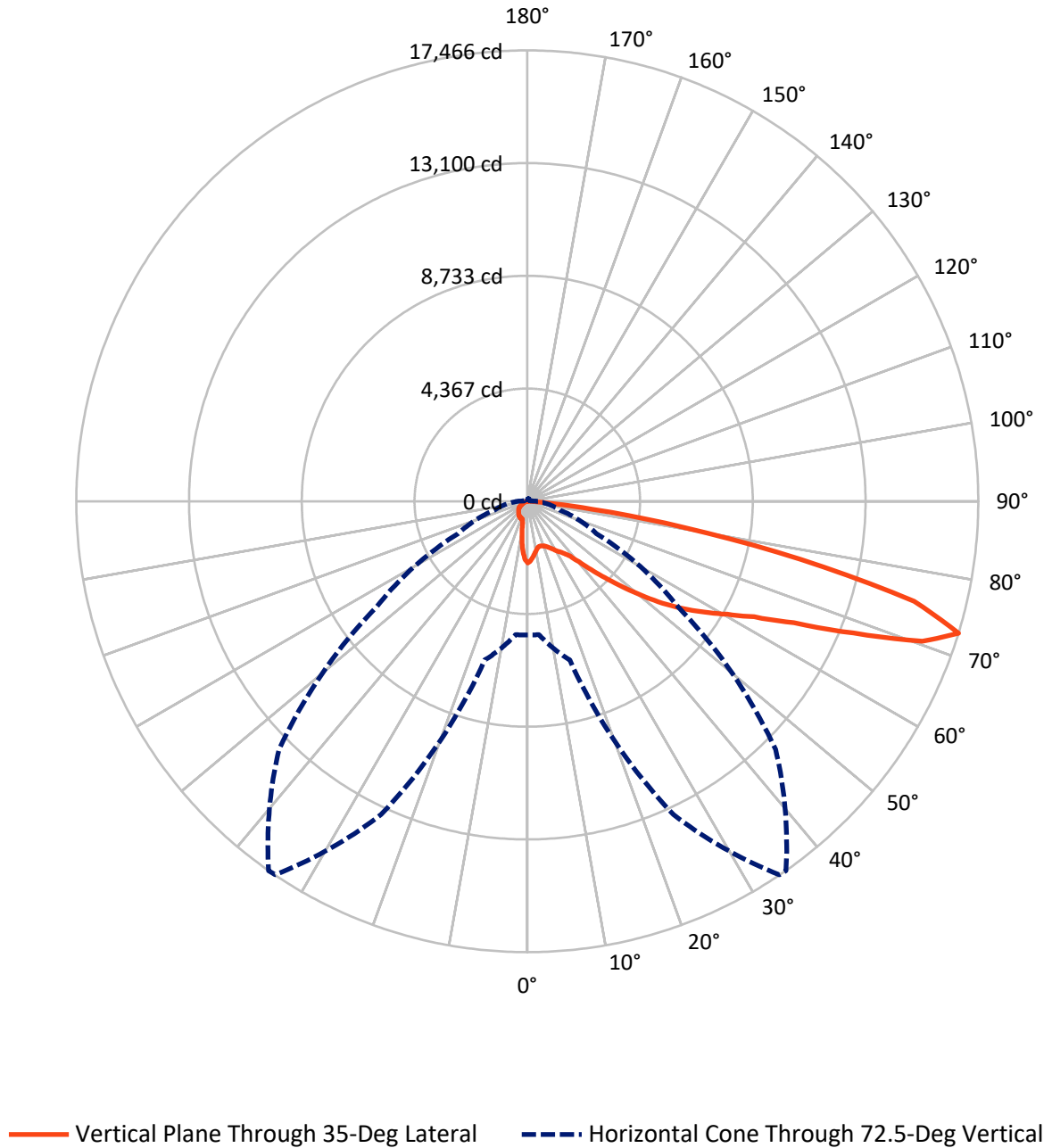
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1853.4	0.0	1853.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14614.6	0.0	14614.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	16468.0	0.0	16468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	1.2
10°-20°	458.8	2.8
20°-30°	745.3	4.5
30°-40°	1243.6	7.6
40°-50°	2352.9	14.3
50°-60°	3738.8	22.7
60°-70°	4625.1	28.1
70°-80°	2875.0	17.5
80°-90°	232.3	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°	16468.0	100.0
0°-180°	16468.0	100.0

Coefficient of Utilization



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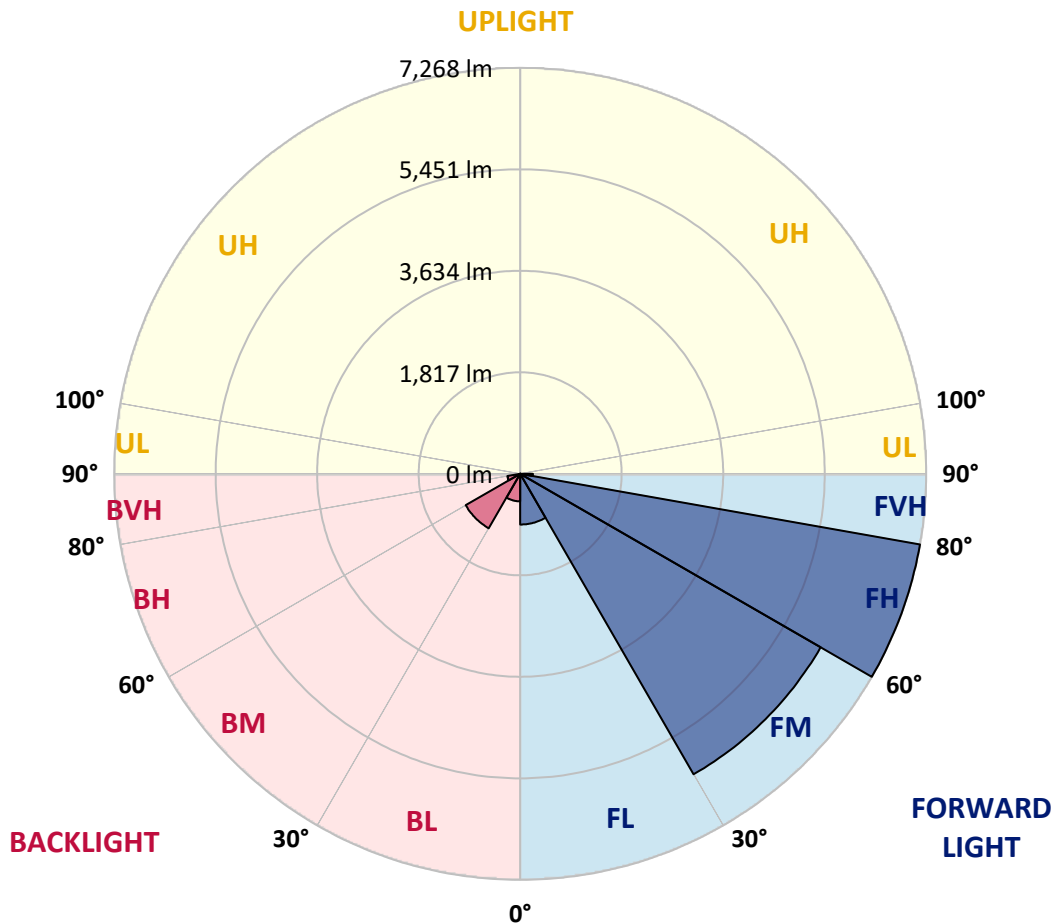
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	907.8	5.5			
FM (30°-60°)	6210.1	37.7			
FH (60°-80°)	7267.5	44.1			G3/7500
FVH (80°-90°)	229.2	1.4			G3/500
BL (0°-30°)	492.5	3.0	B1/500		
BM (30°-60°)	1125.2	6.8	B2/2500		
BH (60°-80°)	232.6	1.4	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8
2.5°	2280.6	2299.9	2303.5	2309.5	2309.5	2316.8	2328.8	2345.7	2373.5	2388.0
5°	2102.0	2116.5	2134.6	2149.1	2176.8	2180.4	2227.5	2273.3	2337.3	2385.6
7.5°	1922.2	1939.1	1963.2	1998.2	2034.4	2045.3	2116.5	2193.7	2295.1	2385.6
10°	1795.5	1796.7	1818.4	1853.4	1911.3	1924.6	2011.5	2121.3	2248.0	2371.1
12.5°	1724.3	1732.8	1742.4	1769.0	1824.5	1832.9	1925.8	2054.9	2200.9	2362.6
15°	1724.3	1730.3	1736.4	1749.7	1794.3	1801.5	1883.6	2012.7	2176.8	2366.3
17.5°	1742.4	1752.1	1747.2	1762.9	1810.0	1814.8	1887.2	2000.6	2175.6	2389.2
20°	1785.9	1793.1	1783.4	1793.1	1840.2	1849.8	1924.6	2023.6	2196.1	2429.0
22.5°	1854.6	1858.3	1835.3	1842.6	1890.8	1902.9	1989.8	2088.7	2245.6	2493.0
25°	1941.5	1948.7	1913.8	1922.2	1968.1	1982.5	2082.7	2186.5	2324.0	2581.0
27.5°	2041.7	2045.3	2015.1	2013.9	2073.0	2093.5	2194.9	2307.1	2429.0	2692.0
30°	2156.3	2167.2	2138.2	2133.4	2208.2	2225.1	2325.2	2455.5	2583.5	2858.6
32.5°	2246.8	2255.2	2238.3	2250.4	2326.4	2339.7	2483.3	2665.5	2826.0	3095.1
35°	2377.1	2381.9	2343.3	2365.0	2451.9	2485.7	2699.3	2959.9	3131.3	3391.9
37.5°	2848.9	2848.9	2684.8	2577.4	2660.7	2690.8	2994.9	3330.4	3507.7	3790.1
40°	3501.7	3490.9	3250.7	3031.1	3020.3	3079.4	3416.0	3797.3	3994.0	4267.9
42.5°	4198.0	4181.1	3854.1	3636.9	3600.7	3621.2	3902.3	4372.9	4573.2	4850.8
45°	4815.8	4810.9	4511.7	4219.7	4154.5	4219.7	4509.3	5046.2	5189.8	5481.8
47.5°	5333.4	5333.4	5115.0	4924.4	4890.6	4929.2	5331.0	5793.2	5779.9	6153.9
50°	5929.5	5924.7	5717.1	5635.1	5670.1	5724.4	6277.0	6579.9	6390.4	6814.0
52.5°	6347.0	6376.0	6304.8	6291.5	6470.1	6564.2	7237.5	7349.7	6937.1	7440.2
55°	6677.6	6711.4	6793.5	6886.4	7230.3	7353.4	8167.9	8079.8	7394.4	7983.2
57.5°	7145.8	7097.5	7224.2	7407.7	7963.9	8112.3	9069.2	8768.8	7762.4	8423.7
60°	7714.2	7721.4	7743.1	7974.8	8696.4	8887.0	9957.3	9420.4	7998.9	8694.0
62.5°	8397.1	8408.0	8452.6	8808.6	9679.8	9859.6	10903.3	9953.7	8107.5	8617.9
65°	8350.1	8395.9	8894.3	10111.8	11174.8	11352.2	12007.4	10327.8	7943.4	7922.9
67.5°	7606.8	7681.6	8515.4	11668.4	13428.9	13626.8	13342.0	10401.4	7235.1	6161.2
70°	6631.8	6658.3	7661.1	13068.1	16038.9	16239.2	14536.6	9591.7	5490.3	3436.6
72.5°	5179.0	5185.0	6361.5	13392.7	17455.5	17466.3	13599.0	7120.5	2952.7	1320.1
75°	3699.6	3663.4	4260.7	10861.1	15357.1	15480.2	10195.0	3340.0	1128.2	623.8
77.5°	1983.7	2023.6	2410.9	6441.1	10608.9	10818.9	5562.7	962.9	574.4	424.7
80°	613.0	646.8	988.3	2949.1	6009.1	6135.8	2062.2	428.4	400.6	302.9
82.5°	193.1	200.3	460.9	1239.2	2494.2	2552.1	597.3	242.5	273.9	200.3
85°	55.5	56.7	205.1	462.1	616.6	628.7	167.7	94.1	156.9	124.3
87.5°	6.0	19.3	77.2	77.2	54.3	53.1	18.1	20.5	44.6	15.7
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°
2386.8	0°	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8	2386.8
2397.6	2.5°	2391.6	2392.8	2377.1	2350.6	2321.6	2297.5	2267.3	2243.2	2226.3	2221.5
2419.3	5°	2408.5	2400.0	2355.4	2274.5	2178.0	2094.8	2001.8	1928.2	1880.0	1859.5
2442.3	7.5°	2433.8	2409.7	2312.0	2152.7	1968.1	1804.0	1637.4	1508.3	1426.3	1385.2
2464.0	10°	2455.5	2407.3	2239.6	1976.5	1694.1	1445.6	1221.1	1065.5	978.6	937.6
2489.3	12.5°	2476.1	2406.1	2145.4	1767.8	1385.2	1081.2	872.4	795.2	771.1	762.6
2530.4	15°	2514.7	2409.7	2027.2	1528.8	1077.5	816.9	740.9	739.7	744.5	742.1
2593.1	17.5°	2567.8	2413.3	1893.2	1275.4	831.4	720.4	716.8	727.6	734.9	731.2
2671.5	20°	2636.5	2427.8	1750.9	1024.5	714.3	696.2	704.7	714.3	720.4	714.3
2776.5	22.5°	2733.1	2453.1	1595.2	822.9	676.9	681.8	689.0	699.9	705.9	697.4
2910.5	25°	2851.3	2493.0	1442.0	715.5	658.8	664.9	675.7	687.8	695.0	686.6
3079.4	27.5°	3004.6	2556.9	1300.8	691.4	640.7	644.4	660.0	678.1	687.8	676.9
3319.5	30°	3226.6	2661.9	1178.9	702.3	629.9	621.4	643.1	668.5	679.3	669.7
3646.5	32.5°	3521.0	2810.3	1104.1	719.2	625.0	594.9	615.4	648.0	666.1	660.0
4073.7	35°	3907.2	3035.9	1075.1	738.5	621.4	567.1	581.6	616.6	648.0	654.0
4611.8	37.5°	4375.3	3349.7	1083.6	746.9	610.6	544.2	551.4	581.6	622.6	641.9
5217.6	40°	4907.5	3715.3	1131.8	738.5	598.5	524.9	526.1	549.0	585.2	614.2
5869.2	42.5°	5456.5	4142.4	1221.1	707.1	587.6	508.0	504.4	520.1	544.2	564.7
6519.6	45°	5979.0	4581.7	1309.2	663.7	574.4	491.1	482.7	488.7	493.5	502.0
7153.1	47.5°	6435.1	4890.6	1283.9	623.8	556.3	471.8	457.3	454.9	440.4	439.2
7719.0	50°	6750.0	4958.1	1140.3	584.0	529.7	450.1	427.2	412.7	387.3	375.3
8142.5	52.5°	6850.2	4691.5	931.5	544.2	486.3	421.1	388.5	365.6	334.2	323.4
8386.3	55°	6717.5	4169.0	744.5	495.9	425.9	382.5	346.3	316.1	290.8	277.5
8412.8	57.5°	6392.9	3504.1	588.8	439.2	362.0	339.1	302.9	272.7	251.0	237.7
8118.4	60°	5854.7	2782.5	465.8	371.7	308.9	292.0	254.6	235.3	216.0	200.3
7358.2	62.5°	5037.8	1986.2	365.6	294.4	258.2	238.9	217.2	202.7	179.8	158.1
5991.0	65°	3931.3	1215.1	282.4	216.0	207.5	197.9	184.6	171.3	143.6	121.9
3908.4	67.5°	2479.7	575.6	201.5	162.9	164.1	159.3	153.2	142.4	121.9	102.6
1750.9	70°	1092.0	278.7	132.7	124.3	121.9	121.9	126.7	123.1	103.8	85.7
608.2	72.5°	371.7	149.6	98.9	94.1	88.1	86.9	106.2	102.6	83.3	66.4
302.9	75°	194.3	100.2	72.4	67.6	53.1	64.0	84.5	79.6	59.1	43.4
200.3	77.5°	126.7	71.2	49.5	43.4	30.2	42.2	62.7	55.5	35.0	21.7
131.5	80°	79.6	47.1	29.0	20.5	14.5	22.9	33.8	24.1	13.3	4.8
77.2	82.5°	42.2	24.1	10.9	7.2	6.0	7.2	8.4	6.0	2.4	0.0
39.8	85°	16.9	8.4	3.6	2.4	1.2	0.0	2.4	1.2	0.0	0.0
7.2	87.5°	6.0	1.2	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>
2386.8
2229.9
1866.7
1391.3
938.8
760.2
740.9
730.0
713.1
696.2
685.4
676.9
668.5
660.0
654.0
646.8
623.8
573.2
506.8
438.0
376.5
322.2
277.5
235.3
196.7
154.5
118.3
100.2
82.1
62.7
39.8
19.3
3.6
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