

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: P950099

Luminaire Tested: **GALN-SB4C-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14073 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

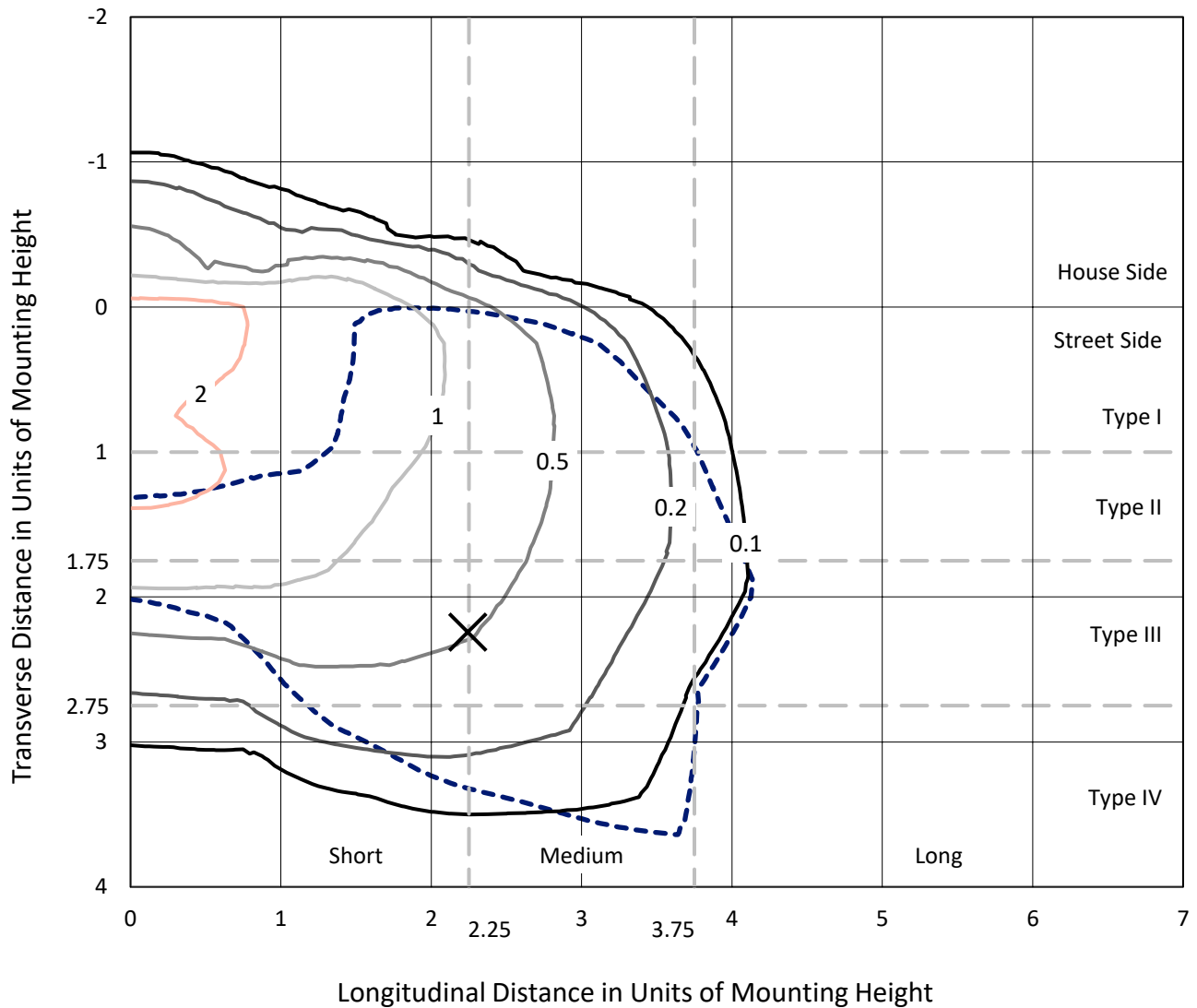
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

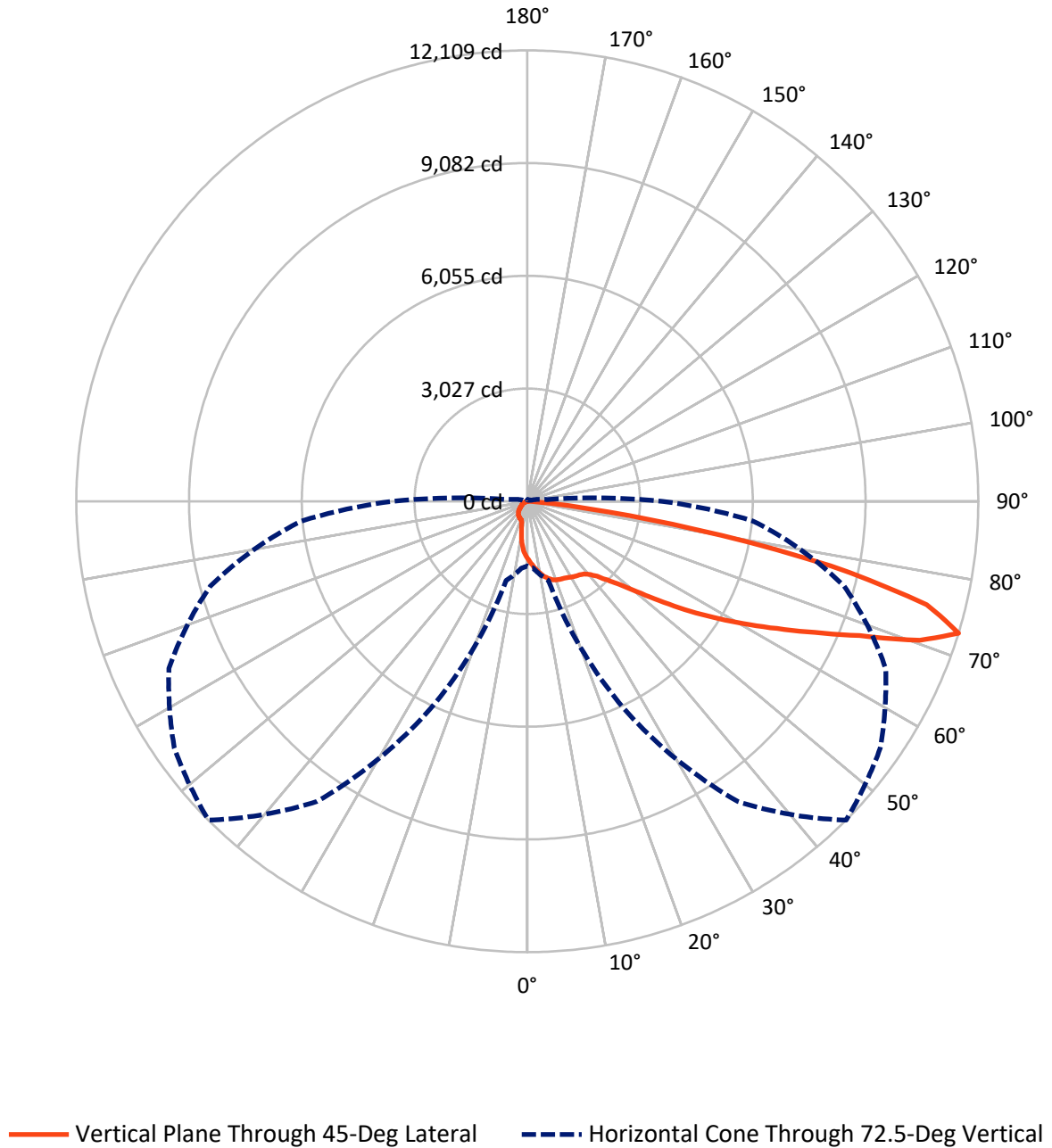
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1478.7	0.0	1478.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12594.3	0.0	12594.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	14073.0	0.0	14073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.0
10°-20°	424.5	3.0
20°-30°	697.2	5.0
30°-40°	988.7	7.0
40°-50°	1634.3	11.6
50°-60°	2935.8	20.9
60°-70°	4076.5	29.0
70°-80°	2957.0	21.0
80°-90°	213.8	1.5
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°	14073.0	100.0
0°-180°	14073.0	100.0

Coefficient of Utilization



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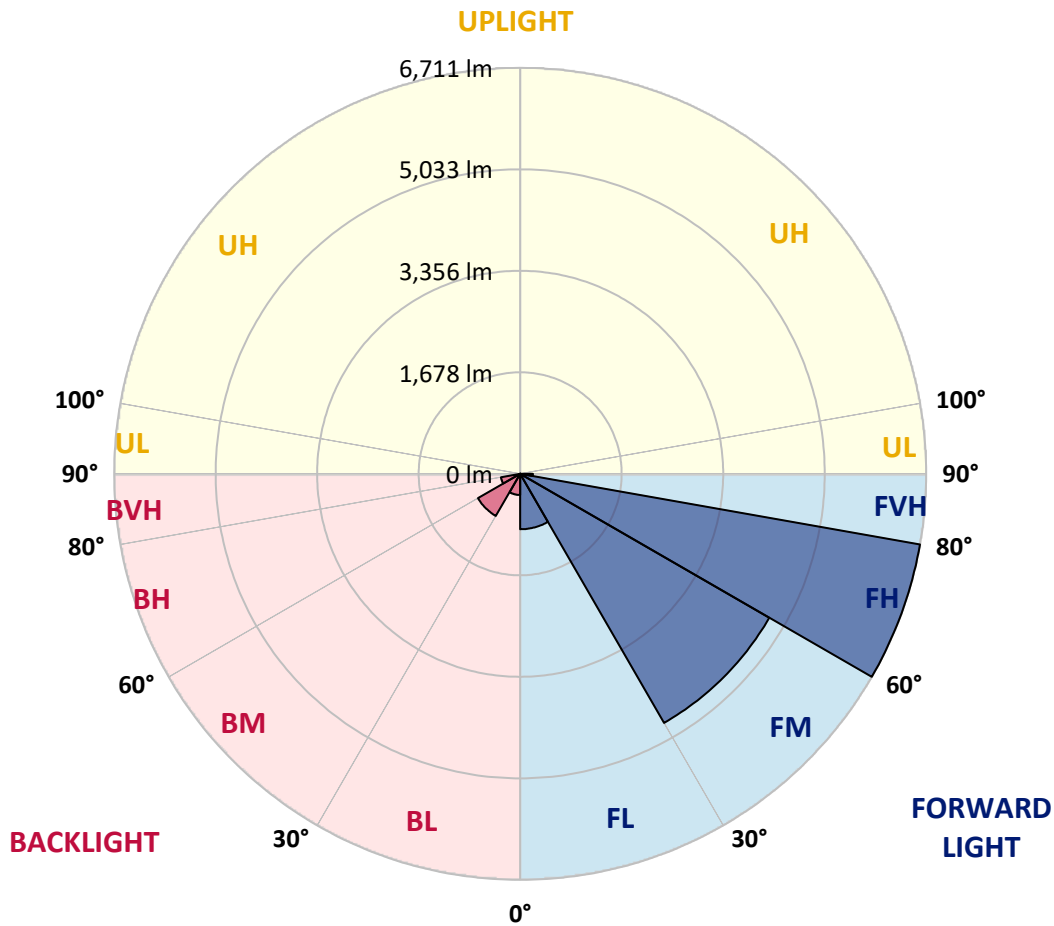
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.7	6.5			
FM (30°-60°)	4754.6	33.8			
FH (60°-80°)	6711.0	47.7			G3/7500
FVH (80°-90°)	212.0	1.5			G2/225
BL (0°-30°)	350.2	2.5	B1/500		
BM (30°-60°)	804.2	5.7	B1/1000		
BH (60°-80°)	322.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7
2.5°	1683.9	1686.8	1684.9	1673.3	1654.1	1643.5	1637.8	1618.6	1606.1	1584.0
5°	1838.5	1850.1	1843.3	1820.3	1783.8	1757.9	1750.2	1710.8	1675.2	1633.9
7.5°	2002.8	2008.6	1996.1	1966.3	1917.3	1873.1	1866.4	1811.6	1755.0	1691.6
10°	2145.0	2151.7	2132.5	2089.3	2033.5	1978.8	1969.2	1908.7	1841.4	1763.6
12.5°	2264.1	2270.8	2245.8	2194.0	2132.5	2075.8	2066.2	2002.8	1928.8	1842.4
15°	2354.4	2366.9	2333.2	2277.5	2211.2	2154.6	2149.8	2087.3	2015.3	1919.2
17.5°	2407.2	2419.7	2388.0	2320.8	2264.1	2216.1	2210.3	2158.4	2091.2	1999.0
20°	2415.9	2427.4	2393.8	2335.2	2288.1	2249.7	2246.8	2209.3	2160.3	2072.0
22.5°	2389.9	2404.3	2373.6	2326.5	2293.9	2273.7	2269.8	2248.7	2220.9	2145.9
25°	2363.0	2374.5	2351.5	2310.2	2292.9	2291.0	2293.9	2290.0	2284.3	2220.9
27.5°	2361.1	2373.6	2347.7	2308.3	2298.7	2318.8	2321.7	2340.0	2344.8	2289.1
30°	2377.4	2386.1	2361.1	2319.8	2315.0	2361.1	2362.1	2394.7	2402.4	2346.7
32.5°	2413.0	2422.6	2397.6	2337.1	2330.4	2394.7	2397.6	2440.8	2453.3	2408.2
35°	2496.5	2508.1	2479.3	2385.1	2361.1	2426.4	2435.1	2486.0	2510.9	2473.5
37.5°	2705.0	2671.4	2632.0	2482.1	2431.2	2476.4	2490.8	2550.3	2594.5	2551.3
40°	3222.7	3117.1	2994.1	2647.4	2554.2	2583.0	2594.5	2654.1	2714.6	2672.3
42.5°	3999.8	3875.0	3677.1	3027.7	2739.6	2754.0	2762.6	2814.5	2900.0	2866.4
45°	4692.4	4647.3	4445.6	3677.1	3086.3	3015.3	3025.8	3052.7	3178.6	3166.1
47.5°	5224.6	5198.6	5043.0	4422.5	3672.3	3335.1	3364.9	3377.4	3558.9	3603.1
50°	5633.8	5624.2	5484.9	5085.3	4437.9	3806.8	3817.3	3790.4	4062.3	4171.8
52.5°	6019.9	6052.6	5949.8	5701.0	5255.3	4424.4	4422.5	4295.7	4662.6	4827.9
55°	6368.6	6380.2	6390.7	6329.2	6077.6	5127.6	5109.3	4901.8	5359.1	5530.0
57.5°	6696.2	6701.0	6795.1	6921.0	6933.4	5882.6	5849.0	5600.2	6119.8	6241.8
60°	6916.2	6938.3	7137.1	7486.7	7639.5	6661.6	6643.4	6389.8	6894.1	6950.7
62.5°	6599.2	6733.6	7235.1	7928.6	8306.1	7525.2	7516.5	7278.3	7708.6	7662.5
65°	5341.8	5569.4	6451.2	8227.3	8960.3	8489.6	8502.1	8248.5	8545.3	8395.4
67.5°	3736.6	3976.8	5020.0	8251.4	9691.3	9622.1	9694.1	9296.5	9433.8	9097.6
70°	2584.0	2707.9	3387.0	7734.6	10260.9	11182.1	11180.2	10583.6	10317.6	9417.5
72.5°	1737.7	1802.0	2199.7	6136.2	9842.1	12109.0	12053.3	11567.3	10615.3	8807.5
75°	732.9	780.0	1018.2	3448.5	7786.4	11078.3	10927.5	10222.5	9431.9	6935.4
77.5°	232.5	252.6	401.5	1234.3	4289.0	8327.2	8167.8	6384.0	6321.6	3479.2
80°	110.5	128.7	225.7	495.7	1687.7	4529.1	4507.0	2896.1	2719.4	939.4
82.5°	48.0	56.7	124.9	265.1	755.0	1615.7	1648.4	985.6	815.5	356.4
85°	15.4	20.2	57.6	122.0	318.9	401.5	396.7	234.4	328.5	194.0
87.5°	0.0	0.0	19.2	27.9	32.7	23.1	25.9	20.2	91.3	53.8
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°
1541.7	0°	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7	1541.7
1560.9	2.5°	1549.4	1534.0	1507.1	1482.2	1460.1	1438.0	1424.5	1405.3	1403.4	1403.4
1585.9	5°	1560.0	1535.0	1487.0	1436.1	1377.5	1321.8	1266.0	1212.2	1195.0	1182.5
1626.3	7.5°	1590.7	1551.3	1475.4	1378.4	1267.0	1145.0	1059.5	967.3	931.8	912.5
1680.1	10°	1634.9	1581.1	1465.8	1295.8	1115.2	949.1	827.1	727.2	688.7	672.4
1738.6	12.5°	1683.9	1617.6	1448.6	1193.0	949.1	750.2	631.1	585.0	579.2	579.2
1808.8	15°	1742.5	1661.8	1418.8	1072.0	775.2	593.6	551.4	553.3	559.1	562.9
1877.0	17.5°	1803.0	1708.9	1371.7	936.6	621.5	534.1	535.0	537.9	542.7	546.6
1950.9	20°	1868.3	1755.9	1309.3	792.5	533.1	516.8	519.7	522.6	526.4	528.3
2020.1	22.5°	1938.4	1800.1	1235.3	651.3	503.3	502.4	503.3	506.2	511.0	511.0
2100.8	25°	2013.4	1849.1	1150.8	548.5	488.0	488.0	489.9	491.8	495.7	495.7
2178.6	27.5°	2090.2	1894.3	1061.4	494.7	474.5	473.6	473.6	476.4	478.4	479.3
2255.4	30°	2174.7	1947.1	972.1	483.2	464.0	459.2	456.3	458.2	460.1	461.1
2336.1	32.5°	2261.2	1998.0	892.4	488.0	453.4	444.7	435.1	433.2	433.2	437.1
2419.7	35°	2357.3	2053.7	830.9	504.3	447.6	423.6	408.2	399.6	400.6	406.3
2519.6	37.5°	2472.5	2121.0	785.8	518.7	443.8	399.6	374.6	364.1	357.3	364.1
2657.0	40°	2623.3	2219.9	753.1	530.2	439.0	371.7	338.1	320.8	308.3	312.2
2870.2	42.5°	2845.2	2375.5	740.6	531.2	428.4	339.1	300.7	277.6	259.4	260.3
3191.0	45°	3156.5	2621.4	805.0	518.7	405.4	303.5	261.3	230.5	219.0	216.1
3670.4	47.5°	3583.0	2979.7	953.9	492.8	371.7	269.0	222.9	196.9	188.3	183.5
4299.5	50°	4154.5	3439.8	1119.1	464.0	338.1	236.3	191.2	174.8	169.1	164.3
5045.9	52.5°	4817.3	3906.7	1254.5	435.1	304.5	207.5	171.0	161.4	156.6	152.7
5766.3	55°	5425.3	4228.5	1246.8	404.4	271.8	184.4	156.6	150.8	145.0	141.2
6386.9	57.5°	5803.8	4273.6	1027.8	370.8	234.4	166.2	143.1	139.3	132.6	127.8
6923.8	60°	5977.7	4016.2	720.4	326.6	196.9	148.9	128.7	126.8	118.2	111.4
7432.0	62.5°	6009.4	3537.8	480.3	271.8	164.3	132.6	114.3	111.4	99.9	88.4
7845.0	65°	5880.7	2853.9	332.4	212.3	140.2	115.3	98.0	92.2	79.7	68.2
7943.0	67.5°	5473.4	2003.8	231.5	152.7	119.1	91.3	77.8	75.9	66.3	56.7
7443.5	70°	4727.0	1142.1	154.7	114.3	94.1	62.4	61.5	63.4	53.8	46.1
6081.4	72.5°	3624.3	522.6	96.1	83.6	64.4	42.3	49.0	50.0	41.3	34.6
3794.3	75°	2133.4	223.8	60.5	53.8	32.7	27.9	35.5	36.5	27.9	22.1
1387.1	77.5°	726.2	84.5	38.4	31.7	16.3	15.4	23.1	23.1	15.4	8.6
278.6	80°	165.2	31.7	19.2	12.5	7.7	6.7	7.7	6.7	3.8	1.0
85.5	82.5°	47.1	12.5	7.7	4.8	2.9	2.9	1.0	0.0	0.0	0.0
29.8	85°	13.4	5.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
10.6	87.5°	5.8	1.0	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>
1541.7
1408.2
1188.2
915.4
672.4
579.2
562.9
546.6
529.3
512.9
496.6
480.3
463.0
439.9
409.2
362.1
310.3
256.5
212.3
180.6
163.3
151.8
139.3
126.8
109.5
82.6
64.4
53.8
42.3
30.7
19.2
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