

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: P943204

Luminaire Tested: **GALN-SB7C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33819 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

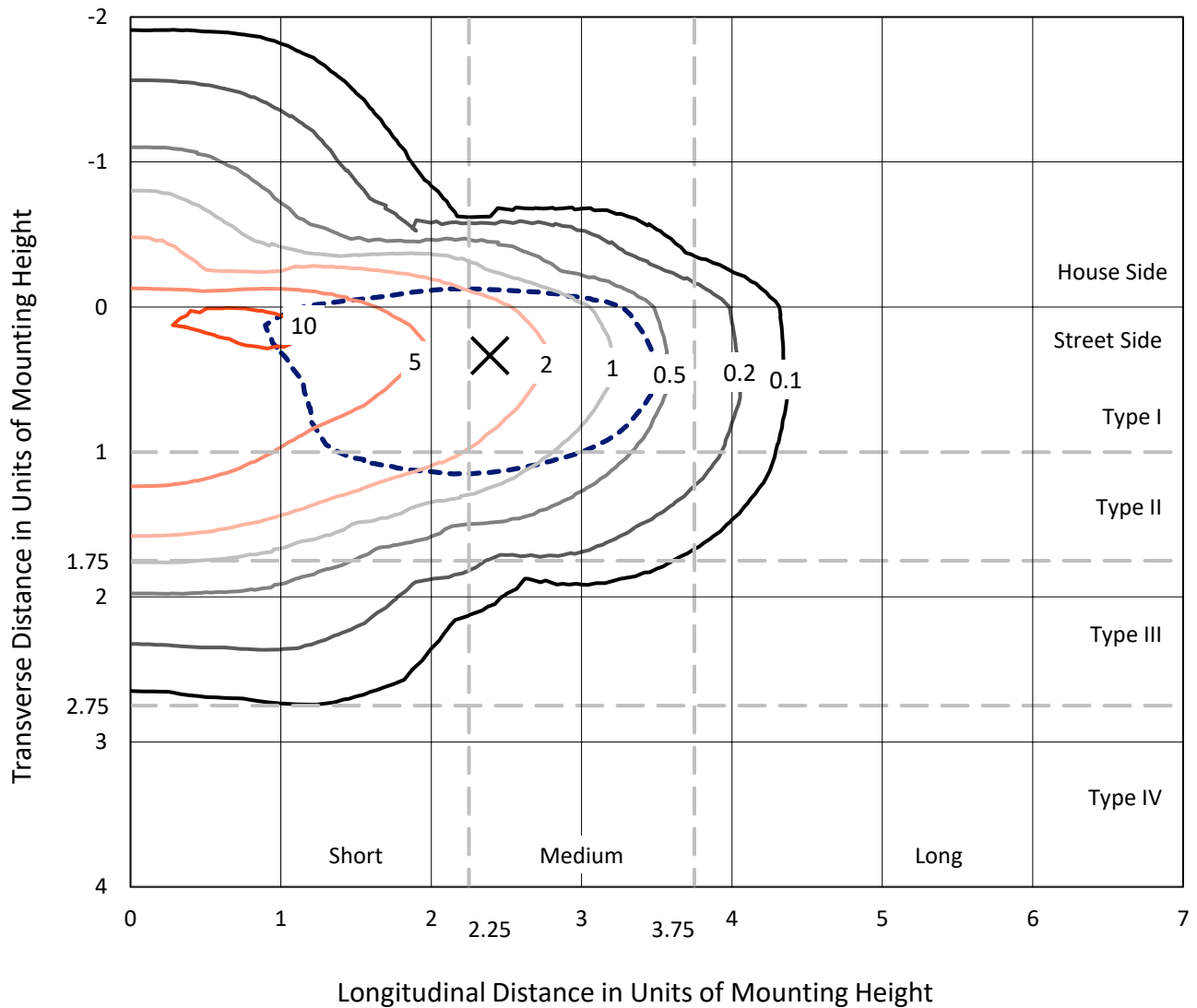
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

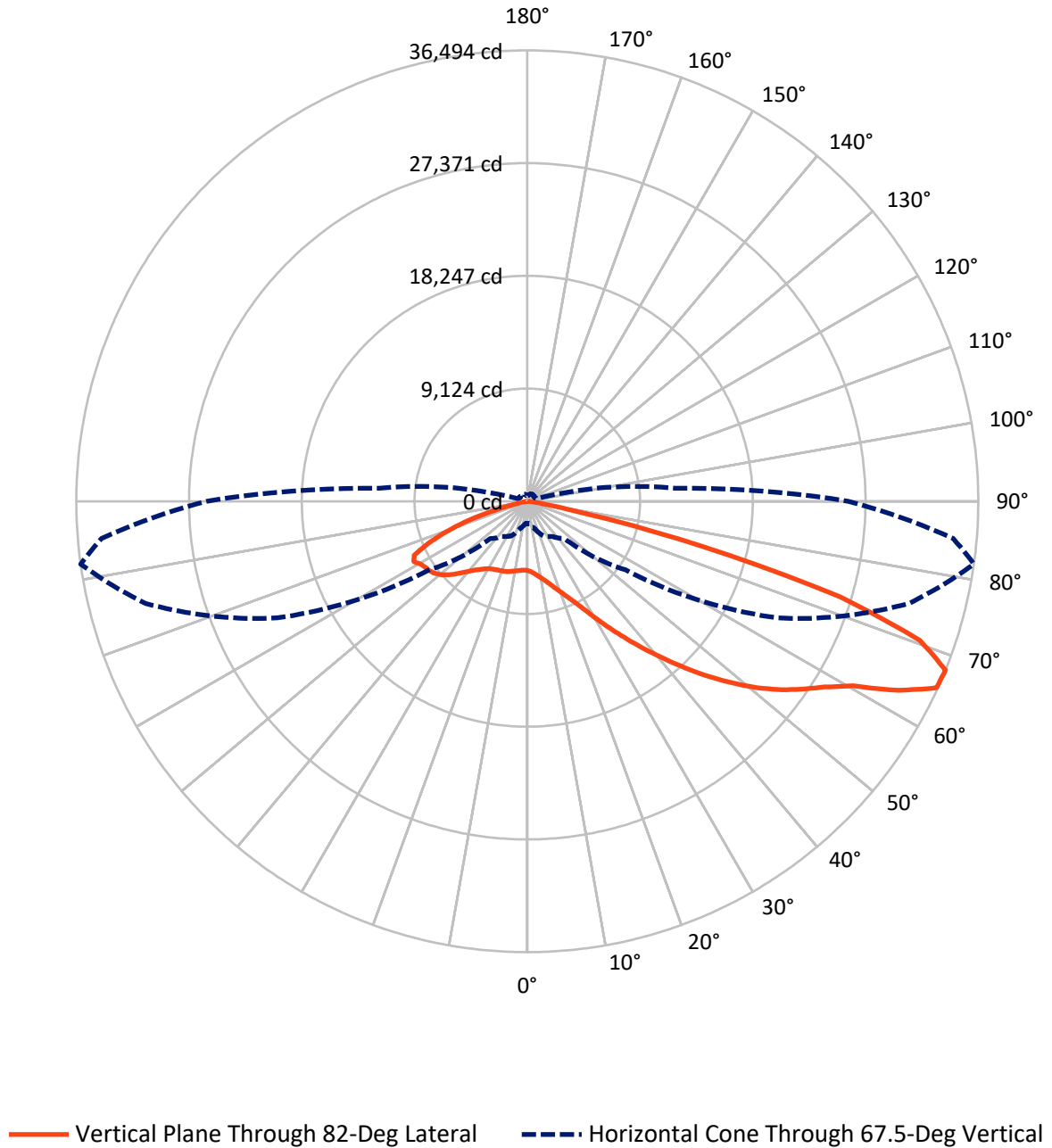
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6126.0	0.0	6126.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27693.0	0.0	27693.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	33819.0	0.0	33819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	1.5
10°-20°	1297.1	3.8
20°-30°	2077.5	6.1
30°-40°	3673.7	10.9
40°-50°	6436.8	19.0
50°-60°	8584.8	25.4
60°-70°	7992.0	23.6
70°-80°	3067.3	9.1
80°-90°	190.5	0.6
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°	33819.0	100.0
0°-180°	33819.0	100.0

Coefficient of Utilization



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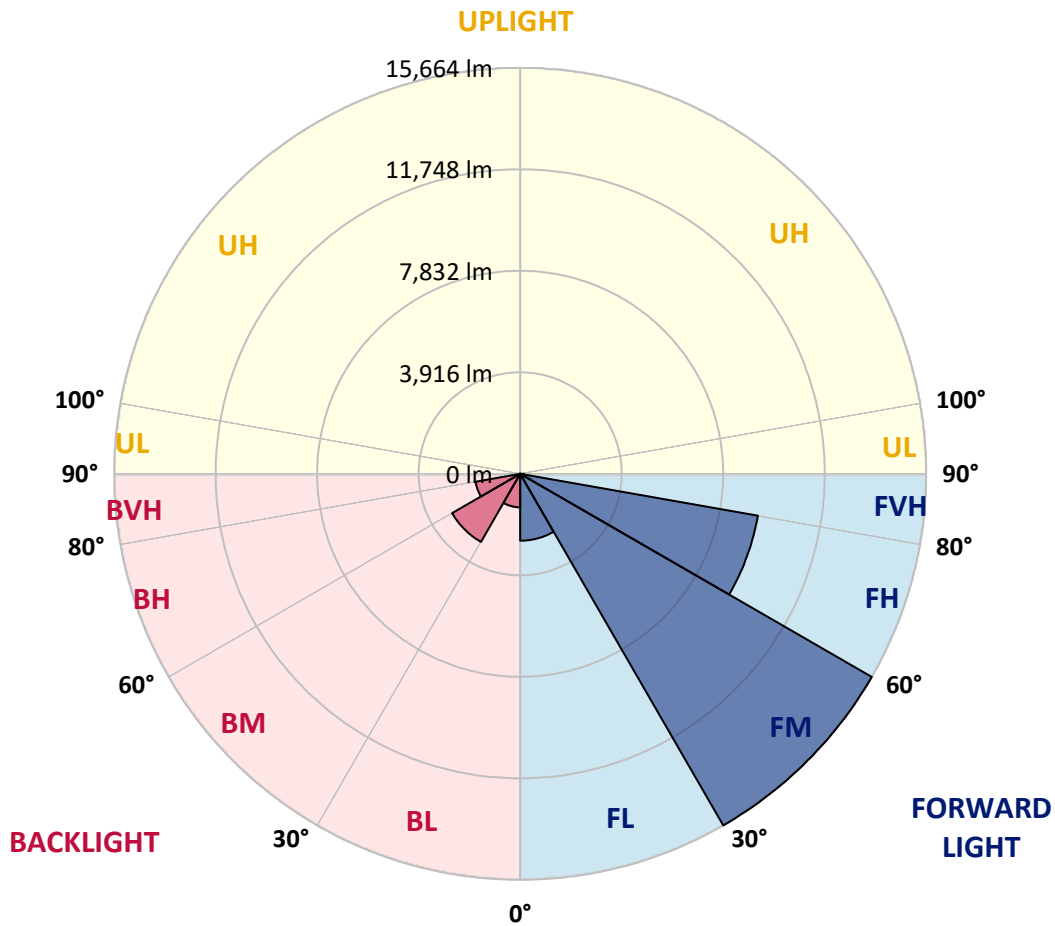
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2580.0	7.6			
FM (30°-60°)	15663.6	46.3			
FH (60°-80°)	9310.9	27.5			G4/12000
FVH (80°-90°)	138.5	0.4			G2/225
BL (0°-30°)	1293.8	3.8	B3/2500		
BM (30°-60°)	3031.7	9.0	B3/5000		
BH (60°-80°)	1748.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	52.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7
2.5°	5921.6	5955.7	5936.2	5926.5	5909.5	5885.1	5865.6	5804.8	5741.5	5700.1
5°	6040.9	6075.0	6072.6	6082.3	6094.5	6101.8	6096.9	6028.8	5938.7	5868.1
7.5°	5938.7	5977.6	6009.3	6058.0	6143.2	6233.3	6277.1	6262.5	6170.0	6072.6
10°	5648.9	5690.3	5765.8	5880.2	6060.4	6255.2	6418.3	6493.8	6435.4	6328.3
12.5°	5118.1	5159.5	5308.0	5556.4	5858.3	6196.8	6508.4	6710.5	6725.1	6618.0
15°	4521.6	4563.0	4721.2	5032.9	5493.1	6036.1	6557.1	6939.4	7068.5	6975.9
17.5°	4151.5	4188.0	4307.3	4558.1	5037.8	5714.7	6540.1	7182.9	7477.5	7404.5
20°	4039.5	4071.1	4127.1	4302.4	4701.8	5381.1	6428.1	7411.8	7918.2	7876.8
22.5°	4158.8	4188.0	4205.0	4283.0	4533.8	5162.0	6286.9	7645.5	8429.6	8434.4
25°	4433.9	4463.1	4443.7	4492.4	4601.9	5093.8	6233.3	7920.7	9072.4	9125.9
27.5°	4886.8	4889.2	4843.0	4840.5	4857.6	5196.0	6289.3	8215.3	9883.2	9983.0
30°	5795.0	5758.5	5580.7	5388.4	5300.7	5502.8	6445.1	8563.5	10840.1	11017.8
32.5°	7195.1	7141.5	6815.2	6355.0	5892.4	5997.1	6725.1	8960.4	11882.2	12203.6
35°	8714.4	8699.8	8359.0	7674.7	6866.4	6700.8	7180.5	9481.4	13019.3	13530.6
37.5°	10126.7	10119.4	9924.6	9118.6	8134.9	7682.1	7910.9	10163.2	14236.8	14977.0
40°	11417.2	11439.1	11244.3	10523.6	9532.6	8940.9	8904.4	11005.7	15590.6	16552.3
42.5°	12532.3	12556.7	12359.5	11826.2	10913.1	10333.6	10124.2	12038.1	16912.7	18244.6
45°	13289.6	13440.5	13411.3	12985.2	12330.2	11728.8	11590.0	13333.4	18419.9	20039.1
47.5°	13503.9	13642.6	13861.8	13920.2	13520.9	12929.2	13094.8	14894.2	19944.1	21836.0
50°	12975.5	13104.5	13559.9	14166.1	14443.7	14261.1	14558.2	16566.9	21504.9	23628.1
52.5°	11933.4	12064.8	12639.5	13598.8	14731.0	15305.7	16026.4	18215.4	23016.9	25325.2
55°	10426.2	10565.0	11302.7	12388.7	14183.2	15736.6	17251.1	19861.3	24402.4	26851.9
57.5°	8376.0	8478.3	9245.2	10764.6	12805.0	15308.1	18154.5	21658.3	25707.5	28351.8
60°	5459.0	5549.1	6440.3	8134.9	10521.1	13876.4	18334.7	23662.2	27441.1	30302.1
62.5°	3630.4	3691.3	4219.7	5463.9	7409.3	11127.4	17280.4	25261.9	29983.1	33696.3
65°	2490.9	2551.8	3080.1	3946.9	4787.0	7360.6	14248.9	25050.1	32286.5	36391.7
67.5°	1777.5	1828.6	2276.6	3094.7	3464.8	4275.7	9659.2	22342.5	31955.4	36494.0
70°	1273.4	1302.7	1672.8	2410.5	2753.9	2568.8	5371.4	17088.0	27979.2	33698.8
72.5°	891.2	900.9	1161.4	1835.9	2218.2	1874.9	2556.6	11392.8	21161.6	26450.1
75°	603.9	616.0	781.6	1346.5	1779.9	1431.7	1353.8	6109.1	12422.8	14640.9
77.5°	370.1	375.0	504.0	920.4	1331.9	1090.8	871.7	2588.3	4806.5	4718.8
80°	209.4	209.4	321.4	572.2	908.2	703.7	611.2	1100.6	1521.8	1336.8
82.5°	116.9	119.3	233.7	355.5	601.4	416.4	336.0	508.9	657.4	581.9
85°	48.7	53.6	143.7	168.0	287.3	207.0	136.4	214.3	243.5	216.7
87.5°	4.9	7.3	43.8	31.7	34.1	41.4	19.5	41.4	34.1	34.1
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°
5602.7	0°	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7	5602.7
5685.4	2.5°	5639.2	5602.7	5510.1	5403.0	5261.8	5193.6	5101.1	5037.8	4984.2	4989.1
5826.7	5°	5748.8	5656.2	5449.3	5191.2	4869.8	4640.9	4397.4	4229.4	4093.0	4063.8
6021.5	7.5°	5899.7	5753.6	5390.8	4925.8	4382.8	3971.3	3603.6	3367.4	3199.4	3145.9
6257.6	10°	6094.5	5882.7	5315.3	4592.2	3810.6	3287.1	2892.6	2707.6	2593.1	2554.2
6535.2	12.5°	6321.0	6031.2	5215.5	4185.6	3221.3	2717.3	2466.5	2374.0	2337.5	2325.3
6876.1	15°	6605.8	6216.3	5064.6	3703.5	2722.2	2369.1	2262.0	2249.8	2254.7	2249.8
7285.2	17.5°	6944.3	6418.3	4818.6	3206.7	2386.2	2191.4	2152.4	2162.2	2174.3	2171.9
7742.9	20°	7314.4	6618.0	4504.5	2766.0	2157.3	2064.8	2042.9	2052.6	2062.3	2057.5
8271.3	22.5°	7735.6	6832.3	4156.3	2422.7	2003.9	1947.9	1923.6	1926.0	1926.0	1916.3
8940.9	25°	8239.6	7068.5	3791.1	2179.2	1887.0	1843.2	1814.0	1804.2	1789.6	1760.4
9754.1	27.5°	8841.1	7319.3	3440.5	2008.8	1794.5	1753.1	1719.0	1694.7	1658.2	1609.5
10730.5	30°	9518.0	7623.6	3143.4	1901.6	1721.5	1680.1	1641.1	1604.6	1551.0	1490.1
11853.0	32.5°	10314.2	7949.9	2926.7	1831.0	1655.7	1611.9	1565.6	1521.8	1463.4	1402.5
13114.3	35°	11263.8	8344.3	2800.1	1782.3	1604.6	1546.2	1495.0	1446.3	1402.5	1348.9
14485.1	37.5°	12293.7	8763.1	2761.2	1758.0	1570.5	1480.4	1422.0	1387.9	1383.0	1351.4
15968.0	40°	13421.1	9259.9	2790.4	1743.4	1534.0	1417.1	1353.8	1346.5	1358.7	1302.7
17553.1	42.5°	14614.2	9849.1	2839.1	1726.3	1482.8	1353.8	1292.9	1292.9	1283.2	1205.3
19228.3	45°	15904.7	10528.4	2887.8	1684.9	1422.0	1290.5	1244.2	1227.2	1185.8	1110.3
20913.2	47.5°	17204.9	11219.9	2924.3	1609.5	1348.9	1236.9	1195.5	1156.6	1095.7	1027.5
22566.5	50°	18439.4	11840.8	2885.3	1497.5	1266.1	1185.8	1142.0	1088.4	1022.7	976.4
24132.1	52.5°	19542.4	12378.9	2719.8	1366.0	1178.5	1132.2	1093.3	1037.3	983.7	935.0
25544.3	55°	20501.7	12814.8	2427.6	1241.8	1100.6	1086.0	1047.0	976.4	903.3	861.9
26944.4	57.5°	21422.1	13145.9	2062.3	1139.5	1030.0	1034.8	976.4	913.1	844.9	801.1
28831.4	60°	22646.8	13589.1	1692.2	1044.6	954.5	969.1	905.8	859.5	774.3	718.3
32067.4	62.5°	24604.5	14278.1	1344.1	927.7	866.8	871.7	844.9	788.9	686.6	620.9
34465.8	65°	26157.9	14024.9	1059.2	801.1	767.0	774.3	774.3	713.4	603.9	528.4
34594.8	67.5°	25982.6	12008.8	844.9	676.9	672.0	676.9	693.9	642.8	535.7	474.8
31960.3	70°	23934.9	9552.0	676.9	562.5	584.4	572.2	620.9	586.8	482.1	421.2
24777.4	72.5°	19530.2	6881.0	516.2	465.1	448.0	467.5	560.0	528.4	401.8	333.6
13124.0	75°	11412.3	3671.8	384.7	367.7	323.8	389.6	496.7	450.5	306.8	245.9
4022.4	77.5°	3715.6	1280.7	282.4	270.3	241.1	314.1	423.7	379.8	250.8	194.8
1178.5	80°	995.9	387.1	192.4	177.7	155.8	233.7	336.0	301.9	180.2	126.6
506.5	82.5°	399.3	163.1	112.0	99.8	85.2	160.7	265.4	243.5	133.9	80.4
158.3	85°	129.0	53.6	41.4	31.7	39.0	99.8	158.3	165.6	95.0	41.4
24.3	87.5°	17.0	7.3	7.3	9.7	7.3	17.0	48.7	46.3	26.8	4.9
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>
5602.7
4940.4
3998.1
3092.3
2525.0
2318.0
2247.4
2167.0
2055.0
1911.4
1755.6
1604.6
1485.3
1404.9
1344.1
1348.9
1305.1
1205.3
1107.9
1025.1
969.1
930.1
857.1
796.2
711.0
616.0
521.1
465.1
413.9
326.3
238.6
187.5
124.2
80.4
31.7
0.0
0.0

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