

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: P950065

Luminaire Tested: **GALN-SB4C-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28536 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

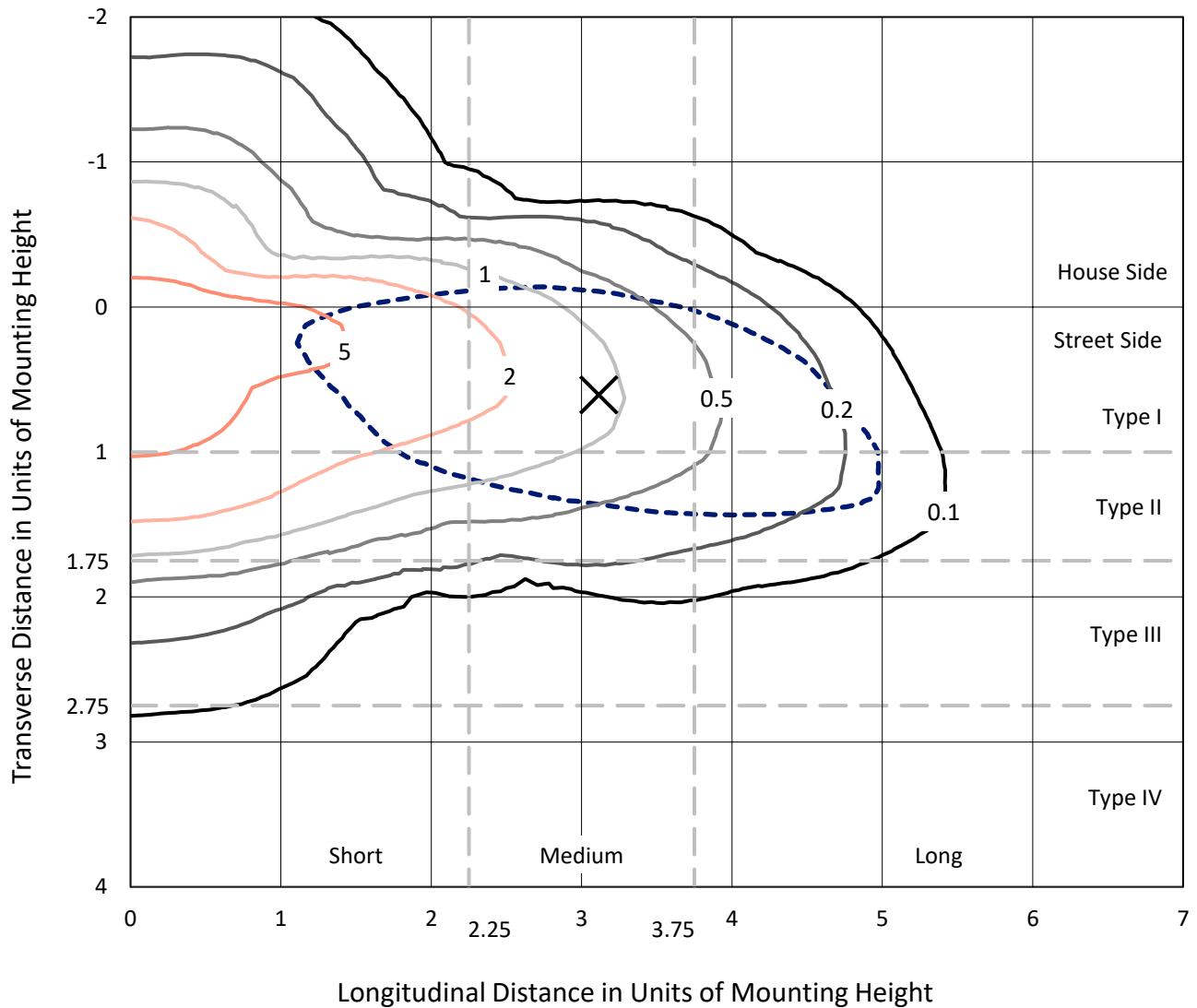
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

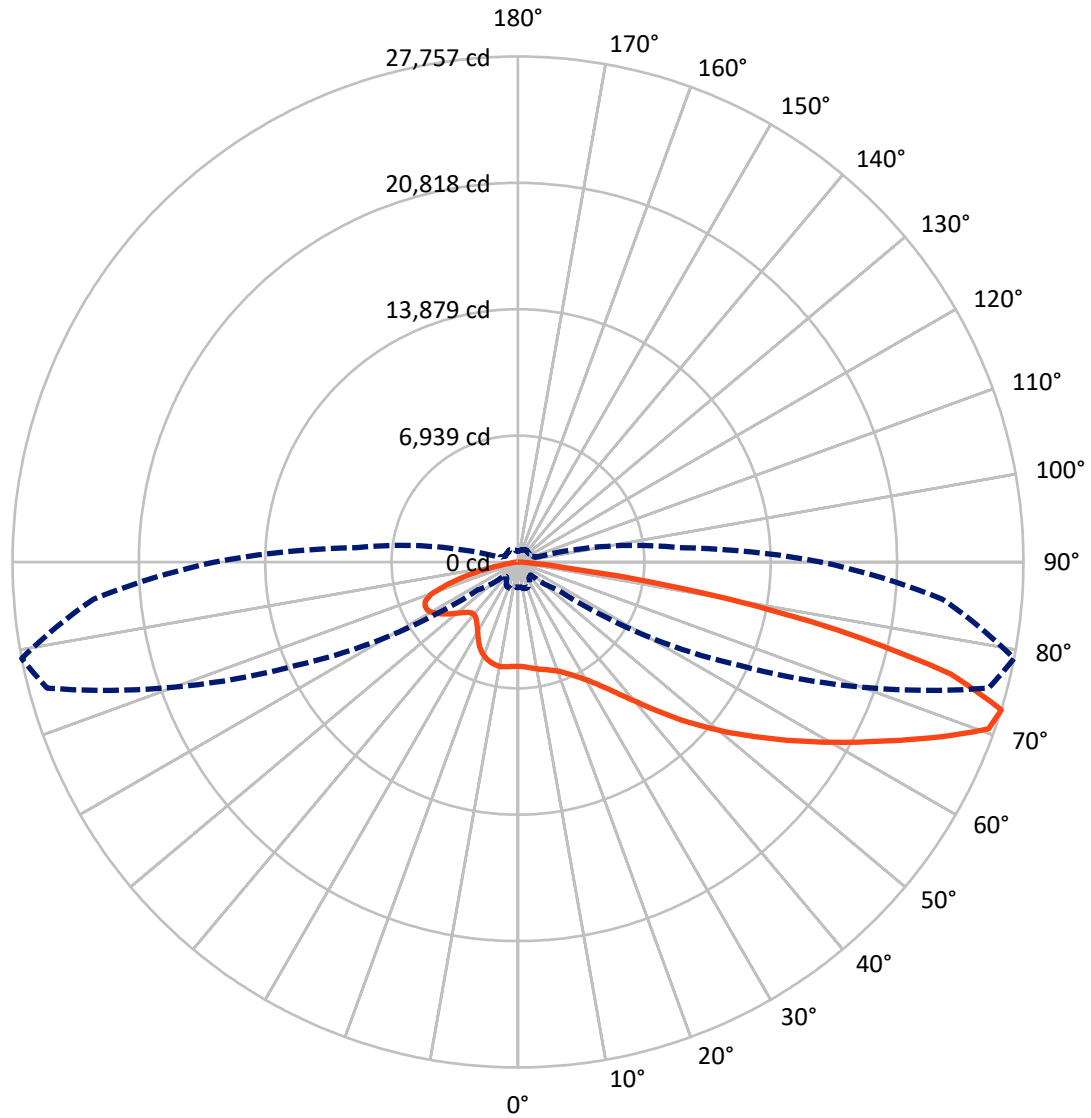
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6279.5	0.0	6279.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22256.5	0.0	22256.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	28536.0	0.0	28536.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.0	1.8
10°-20°	1359.5	4.8
20°-30°	2193.6	7.7
30°-40°	3292.3	11.5
40°-50°	4670.3	16.4
50°-60°	5898.0	20.7
60°-70°	5990.2	21.0
70°-80°	4082.6	14.3
80°-90°	529.7	1.9
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°	28536.0	100.0
0°-180°	28536.0	100.0



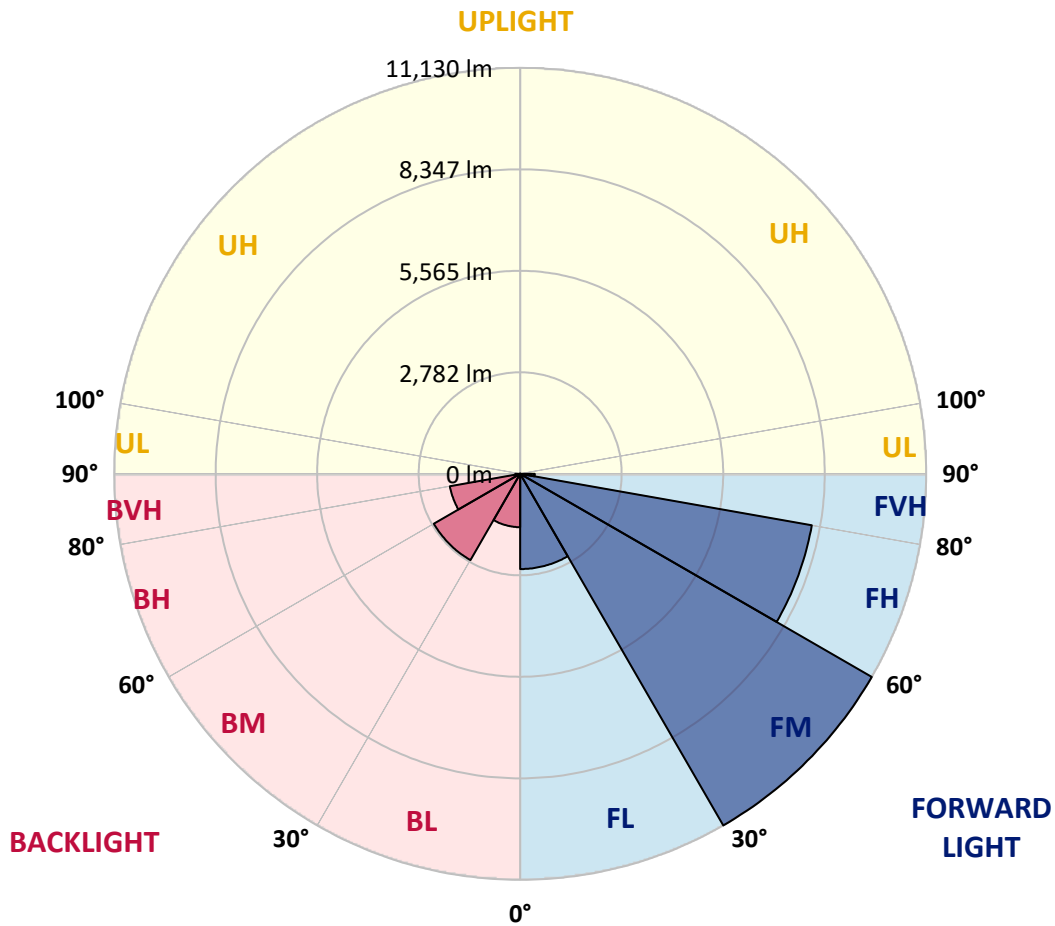
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2610.4	9.1			
FM (30°-60°)	11129.6	39.0			
FH (60°-80°)	8117.5	28.4			G4/12000
FVH (80°-90°)	399.0	1.4			G3/500
BL (0°-30°)	1462.7	5.1	B3/2500		
BM (30°-60°)	2730.9	9.6	B3/5000		
BH (60°-80°)	1955.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	130.7	0.5			G2/225
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°	79°
0°	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3
2.5°	5731.3	5704.2	5720.8	5714.7	5722.3	5731.3	5734.4	5738.9	5754.0	5752.5
5°	5719.3	5692.1	5714.7	5707.2	5726.8	5748.0	5766.1	5782.7	5806.8	5817.4
7.5°	5693.6	5675.5	5698.1	5720.8	5757.0	5788.7	5814.4	5852.1	5886.8	5892.9
10°	5544.2	5530.6	5583.4	5642.3	5741.9	5828.0	5883.8	5927.6	5965.3	5971.4
12.5°	5388.7	5372.1	5431.0	5511.0	5672.5	5828.0	5945.7	6003.0	6036.3	6055.9
15°	5363.0	5349.5	5382.7	5452.1	5586.4	5787.2	5988.0	6093.6	6122.3	6144.9
17.5°	5486.8	5461.2	5474.7	5498.9	5577.4	5749.5	6021.2	6196.3	6240.0	6264.2
20°	5773.6	5737.4	5716.3	5668.0	5654.4	5755.5	6018.1	6320.0	6377.4	6407.6
22.5°	6155.5	6131.4	6086.1	5963.8	5831.0	5829.5	6075.5	6478.5	6585.7	6614.4
25°	6617.4	6581.2	6523.8	6357.8	6102.7	5975.9	6172.1	6680.8	6860.4	6868.0
27.5°	7148.7	7094.4	7015.9	6797.0	6452.9	6205.3	6320.0	6913.2	7175.9	7172.9
30°	7708.7	7654.4	7571.4	7305.7	6872.5	6514.7	6525.3	7163.8	7550.2	7533.6
32.5°	8117.8	8077.0	8060.4	7855.1	7355.5	6880.0	6760.8	7441.5	8012.1	7997.0
35°	8431.7	8378.9	8398.5	8294.4	7882.3	7289.1	7049.1	7772.1	8573.6	8572.1
37.5°	8742.7	8695.9	8712.5	8643.1	8369.9	7808.3	7400.8	8176.6	9269.5	9302.7
40°	9026.5	8976.6	9043.1	8978.2	8748.7	8360.8	7800.8	8634.0	10075.5	10138.9
42.5°	9197.0	9157.8	9268.0	9269.5	9077.8	8827.2	8240.0	9138.2	11008.4	11150.2
45°	9255.9	9242.3	9408.3	9443.1	9369.1	9097.4	8635.5	9687.6	12013.6	12267.2
47.5°	9192.5	9166.8	9396.3	9524.6	9583.4	9224.2	8963.1	10282.3	13040.1	13411.4
50°	8872.5	8822.7	9163.8	9434.0	9643.8	9307.2	9293.6	10969.1	14206.9	14612.9
52.5°	8297.4	8259.7	8647.6	9117.0	9511.0	9348.0	9665.0	11719.3	15314.8	15840.1
55°	7562.3	7512.5	7939.7	8552.5	9180.4	9334.4	10036.3	12558.6	16622.0	17154.8
57.5°	6397.0	6297.4	6837.8	7562.3	8641.6	9317.8	10422.7	13393.3	17950.3	18588.8
60°	4697.4	4549.5	5212.1	6071.0	7588.0	9156.3	10901.2	14329.1	19544.2	20119.3
62.5°	2735.1	2649.1	3082.3	3883.8	5719.3	8205.3	11169.9	15417.4	21111.0	21714.8
65°	2123.8	2099.6	2137.4	2199.3	3183.4	6143.4	10341.2	16478.6	23103.5	23526.2
67.5°	1942.7	1924.5	1941.1	1824.9	1615.1	3421.9	8181.2	16747.3	25237.9	25494.5
70°	1726.8	1705.7	1760.0	1660.4	1270.9	1556.2	5286.1	15772.2	26936.0	27417.5
72.5°	1406.8	1382.6	1509.4	1464.2	1070.2	999.3	2655.1	13455.2	26757.9	27757.1
75°	1080.8	1067.2	1218.1	1255.9	872.5	786.4	1274.0	10001.6	23547.3	24554.1
77.5°	839.2	828.7	905.7	1043.0	703.4	609.8	783.4	6344.2	17745.0	17921.6
80°	629.4	599.2	670.2	807.6	547.9	445.3	531.3	3699.6	11216.7	10167.6
82.5°	394.0	378.9	437.7	538.9	386.4	306.4	345.7	2043.8	4495.1	2647.6
85°	224.9	218.9	238.5	307.9	209.8	176.6	197.7	902.6	821.1	564.5
87.5°	90.6	87.5	108.7	137.4	77.0	64.9	69.4	217.4	181.1	167.5
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°
5728.3	0°	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3	5728.3
5751.0	2.5°	5744.9	5744.9	5723.8	5690.6	5652.9	5628.7	5589.5	5578.9	5538.1	5526.1
5802.3	5°	5814.4	5802.3	5737.4	5643.8	5515.5	5397.8	5268.0	5186.4	5071.7	5031.0
5903.4	7.5°	5901.9	5868.7	5757.0	5551.7	5283.0	5018.9	4744.2	4535.9	4336.6	4265.7
5986.4	10°	5981.9	5935.1	5744.9	5385.7	4920.8	4463.4	4025.7	3719.3	3486.8	3391.7
6078.5	12.5°	6061.9	5975.9	5664.9	5109.5	4406.1	3785.7	3319.3	3080.8	2937.4	2822.7
6154.0	15°	6137.4	6016.6	5541.2	4739.6	3841.5	3212.1	2867.9	2677.7	2563.0	2487.6
6264.2	17.5°	6224.9	6051.4	5355.5	4270.2	3304.2	2815.1	2534.4	2419.6	2397.0	2387.9
6415.1	20°	6347.2	6083.0	5111.0	3744.9	2908.7	2498.1	2353.2	2342.7	2341.1	2336.6
6596.3	22.5°	6478.5	6120.8	4787.9	3267.9	2572.1	2300.4	2274.7	2253.6	2240.0	2238.5
6815.1	25°	6634.0	6132.9	4383.4	2877.0	2285.3	2206.8	2176.6	2144.9	2135.9	2135.9
7064.2	27.5°	6784.9	6092.1	3912.5	2537.4	2123.8	2120.8	2081.5	2071.0	2069.4	2074.0
7348.0	30°	6935.9	6015.1	3444.5	2223.4	2030.2	2030.2	2016.6	2024.2	2030.2	2045.3
7737.4	32.5°	7139.7	5933.6	3053.6	1991.0	1948.7	1933.6	1947.2	1962.3	1968.3	1987.9
8249.1	35°	7438.5	5876.3	2742.7	1864.2	1864.2	1844.5	1852.1	1849.1	1835.5	1826.4
8868.0	37.5°	7834.0	5873.2	2486.1	1805.3	1793.2	1790.2	1791.7	1772.1	1719.3	1655.9
9616.7	40°	8309.5	5954.7	2288.3	1764.5	1755.5	1773.6	1764.5	1711.7	1566.8	1456.6
10537.4	42.5°	8948.0	6187.2	2161.5	1714.7	1741.9	1764.5	1728.3	1545.7	1447.6	1373.6
11586.5	45°	9699.7	6564.6	2096.6	1661.9	1716.2	1743.4	1568.3	1488.3	1409.8	1320.8
12730.6	47.5°	10551.0	7040.0	2081.5	1612.1	1658.9	1675.5	1500.4	1464.2	1375.1	1278.5
13880.8	50°	11477.8	7603.1	2122.3	1553.2	1575.9	1518.5	1477.7	1444.5	1352.5	1257.4
15059.7	52.5°	12436.3	8223.4	2203.8	1473.2	1492.8	1429.4	1468.7	1440.0	1338.9	1210.6
16277.8	55°	13378.2	8848.3	2282.3	1379.6	1408.3	1349.4	1443.0	1421.9	1277.0	1132.1
17577.4	57.5°	14335.2	9470.2	2359.3	1296.6	1326.8	1272.5	1402.3	1373.6	1207.6	1059.6
18996.3	60°	15329.9	10074.0	2395.5	1216.6	1237.7	1201.5	1340.4	1290.6	1129.1	985.7
20391.0	62.5°	16261.2	10576.7	2336.6	1136.6	1150.2	1135.1	1258.9	1192.5	1050.6	902.6
21844.6	65°	17195.6	10875.5	2155.5	1058.1	1061.1	1053.6	1144.2	1086.8	958.5	830.2
23117.1	67.5°	18042.4	11043.1	1867.2	973.6	966.0	963.0	1037.0	972.1	869.4	757.7
24084.6	70°	18222.0	10617.4	1426.4	874.0	874.0	866.4	919.2	852.8	771.3	680.8
23391.8	72.5°	16643.1	8931.4	1012.8	760.8	772.8	757.7	801.5	745.7	671.7	611.3
20160.1	75°	13420.4	6549.5	736.6	644.5	665.7	640.0	680.8	641.5	578.1	576.6
13892.9	77.5°	9221.2	4049.8	534.3	531.3	546.4	513.2	560.0	538.9	481.5	455.9
6046.8	80°	3935.1	1615.1	389.4	410.6	410.6	380.4	434.7	440.8	390.9	378.9
1166.8	82.5°	783.4	458.9	273.2	282.3	265.7	256.6	307.9	341.1	470.9	523.8
351.7	85°	235.5	169.1	164.5	154.0	135.8	137.4	181.1	342.6	422.6	241.5
116.2	87.5°	64.9	42.3	43.8	34.7	28.7	37.7	61.9	259.6	141.9	60.4
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>
5728.3
5545.7
5061.2
4274.7
3412.8
2860.4
2501.1
2394.0
2351.7
2255.1
2144.9
2086.0
2055.9
2004.5
1847.6
1657.4
1453.6
1370.6
1314.7
1270.9
1246.8
1201.5
1124.5
1056.6
981.1
901.1
821.1
748.7
677.7
593.2
519.2
427.2
378.9
525.3
208.3
51.3
0.0

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