

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: P950067

Luminaire Tested: **GALN-SB4C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
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-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28059 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

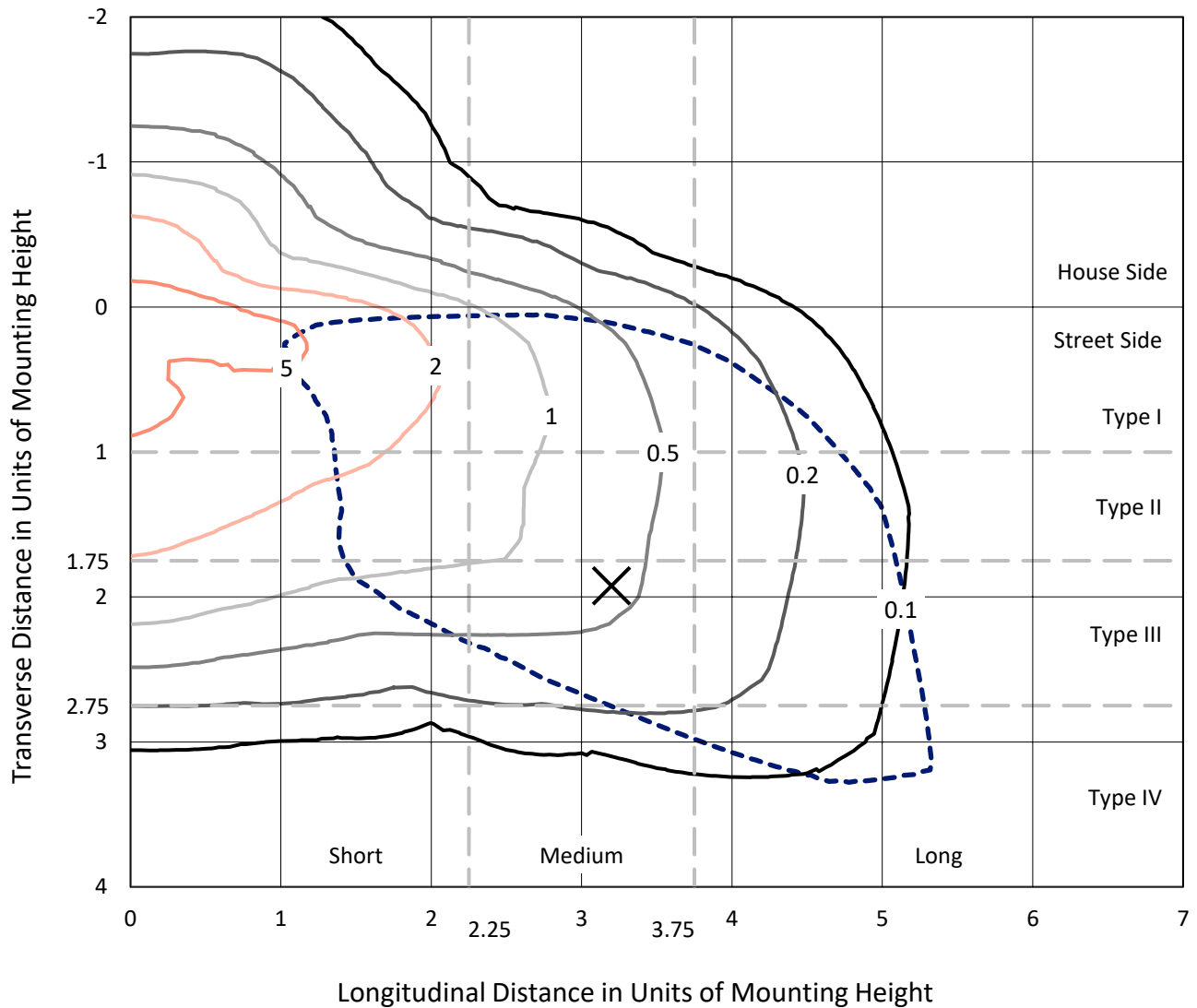
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

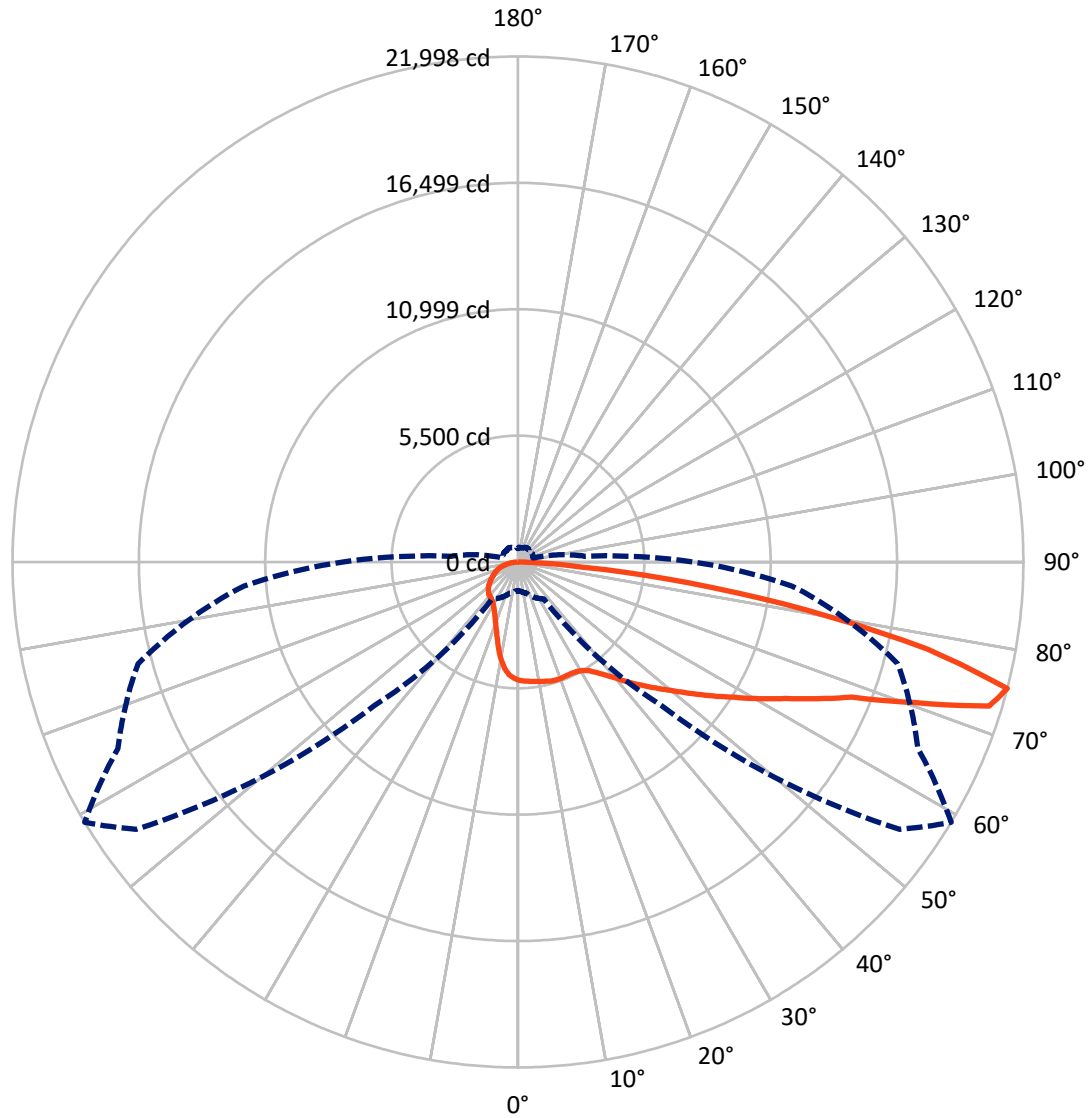
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5262.7	0.0	5262.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22796.3	0.0	22796.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	28059.0	0.0	28059.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	1.6
10°-20°	1180.4	4.2
20°-30°	1792.9	6.4
30°-40°	2665.1	9.5
40°-50°	3963.5	14.1
50°-60°	5379.9	19.2
60°-70°	6568.0	23.4
70°-80°	5154.5	18.4
80°-90°	892.9	3.2
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°	28059.0	100.0
0°-180°	28059.0	100.0



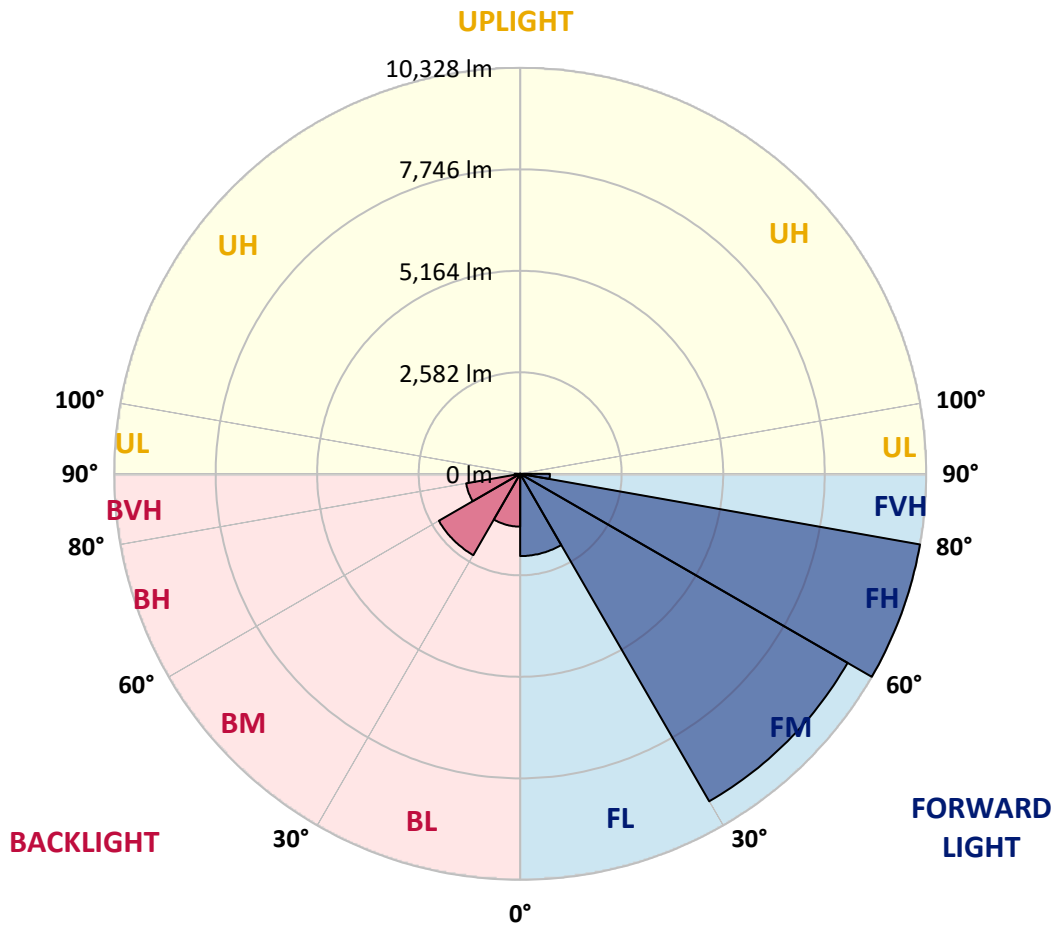
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2092.1	7.5			
FM (30°-60°)	9619.8	34.3			
FH (60°-80°)	10328.2	36.8			G4/12000
FVH (80°-90°)	756.2	2.7			G5
BL (0°-30°)	1343.0	4.8	B3/2500		
BM (30°-60°)	2388.7	8.5	B2/2500		
BH (60°-80°)	1394.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	136.7	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2
2.5°	5193.9	5175.8	5193.9	5186.4	5183.4	5177.3	5178.8	5189.4	5183.4	5190.9
5°	5159.2	5148.7	5166.8	5162.2	5181.9	5184.9	5204.5	5216.6	5224.1	5225.6
7.5°	5101.9	5091.3	5117.0	5138.1	5180.4	5192.4	5233.2	5252.8	5263.4	5281.5
10°	4892.1	4887.5	4950.9	5030.9	5130.5	5192.4	5254.3	5287.5	5304.1	5352.4
12.5°	4520.7	4526.8	4609.8	4763.8	4963.0	5162.2	5278.5	5326.8	5352.4	5412.8
15°	4166.0	4164.5	4255.1	4419.6	4698.8	5029.4	5290.5	5373.6	5417.3	5506.4
17.5°	3960.7	3954.7	4018.1	4143.4	4403.0	4825.6	5260.4	5399.2	5492.8	5604.5
20°	3923.0	3910.9	3944.1	4006.0	4190.2	4602.2	5181.9	5399.2	5553.2	5698.1
22.5°	4060.4	4040.7	4027.2	4019.6	4101.1	4418.1	5092.8	5381.1	5642.2	5832.4
25°	4336.6	4306.4	4237.0	4169.0	4144.9	4335.1	5014.3	5376.6	5775.1	6013.6
27.5°	4783.4	4745.6	4605.3	4442.2	4295.8	4377.3	4979.6	5403.8	5921.5	6205.3
30°	5337.3	5296.6	5120.0	4869.4	4606.8	4534.3	5023.4	5483.8	6108.7	6460.4
32.5°	5833.9	5788.7	5637.7	5382.6	5027.9	4806.0	5162.2	5636.2	6403.0	6815.1
35°	6274.7	6221.9	6086.0	5850.5	5544.1	5187.9	5412.8	5906.4	6821.1	7391.7
37.5°	6706.4	6644.5	6496.6	6247.5	6033.2	5696.6	5758.5	6253.6	7376.6	8092.0
40°	7189.4	7100.3	6920.7	6674.7	6466.4	6292.8	6212.8	6679.2	7941.1	8873.9
42.5°	7657.3	7572.8	7358.5	7148.6	6887.5	6837.7	6739.6	7177.3	8558.5	9732.8
45°	8161.5	8060.3	7800.7	7535.1	7370.5	7200.0	7249.8	7675.4	9163.7	10608.3
47.5°	8633.9	8520.7	8214.3	7918.5	7827.9	7504.9	7717.7	8223.4	9793.2	11495.8
50°	8889.0	8777.3	8522.2	8255.1	8184.1	7880.7	8224.9	8825.6	10452.8	12380.3
52.5°	9101.8	8981.1	8647.5	8499.6	8478.5	8289.8	8849.8	9513.9	11112.4	13162.2
55°	9328.3	9193.9	8768.3	8635.4	8732.0	8748.6	9590.9	10294.3	11809.8	13924.5
57.5°	9589.4	9418.8	8884.5	8750.2	8979.6	9286.0	10442.2	11103.3	12495.0	14630.9
60°	9835.4	9663.4	9107.9	8932.8	9246.8	9909.4	11418.8	12083.0	13270.9	15260.3
62.5°	9883.7	9741.8	9286.0	9284.5	9609.0	10636.9	12575.0	13071.6	13948.6	15882.2
65°	9047.5	8958.5	8688.3	9270.9	10128.3	11684.5	13862.6	14336.5	14810.5	16425.6
67.5°	6886.0	6898.1	6878.5	8003.0	9708.6	13189.4	15726.7	15690.5	15874.6	17035.4
70°	3148.7	3219.6	3681.5	5524.5	7778.1	13363.0	18809.0	18339.5	17210.5	17824.8
72.5°	1701.1	1755.5	1944.1	2676.2	4676.2	11880.7	21112.4	21445.9	18987.1	18356.1
75°	1248.3	1278.5	1409.8	1701.1	1963.8	8830.2	20286.7	21998.4	19209.0	17116.9
77.5°	934.3	947.9	1055.1	1347.9	1005.3	4655.1	16209.7	18218.8	16443.7	14063.3
80°	677.7	692.8	772.8	1011.3	704.9	1702.6	11130.5	12787.9	11261.8	8964.5
82.5°	467.9	474.0	508.7	688.3	492.1	661.1	6315.4	7498.8	6286.8	3145.6
85°	282.3	289.8	304.9	401.5	279.2	314.0	2726.0	2819.6	1879.2	751.7
87.5°	116.2	123.8	135.8	169.1	110.2	87.5	449.8	564.5	351.7	220.4
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°
5150.2	0°	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2	5150.2
5165.3	2.5°	5157.7	5147.1	5118.5	5079.2	5043.0	4997.7	4978.1	4961.5	4946.4	4917.7
5206.0	5°	5189.4	5160.7	5083.8	4984.1	4870.9	4747.1	4626.4	4543.4	4472.4	4419.6
5252.8	7.5°	5237.7	5183.4	5043.0	4839.2	4579.6	4313.9	4073.9	3903.4	3775.1	3728.3
5319.2	10°	5287.5	5222.6	4978.1	4618.8	4170.5	3761.5	3443.0	3267.9	3165.3	3132.1
5397.7	12.5°	5346.4	5251.3	4877.0	4312.4	3713.2	3264.9	2987.2	2884.5	2831.7	2813.6
5494.3	15°	5432.4	5275.4	4724.5	3929.0	3277.0	2902.6	2723.0	2652.1	2624.9	2623.4
5593.9	17.5°	5497.3	5280.0	4487.5	3518.5	2941.9	2683.8	2535.8	2508.7	2526.8	2554.0
5692.1	20°	5569.8	5239.2	4176.6	3144.1	2706.4	2492.1	2430.2	2448.3	2492.1	2531.3
5821.9	22.5°	5621.1	5165.3	3800.7	2852.8	2502.6	2381.9	2378.9	2416.6	2440.7	2460.4
5974.3	25°	5666.4	5040.0	3402.2	2608.3	2335.1	2315.5	2348.7	2336.6	2320.0	2336.6
6126.8	27.5°	5699.6	4842.2	3046.0	2394.0	2217.3	2270.2	2250.6	2223.4	2221.9	2230.9
6306.4	30°	5689.0	4578.1	2753.2	2190.2	2134.3	2185.7	2138.9	2134.3	2129.8	2134.3
6576.6	32.5°	5689.0	4277.7	2528.3	2049.8	2081.5	2061.9	2057.3	2046.8	2028.7	2027.2
6943.4	35°	5720.7	3977.3	2335.1	1974.3	2037.7	1990.9	1994.0	1968.3	1930.6	1912.4
7429.4	37.5°	5785.6	3735.8	2143.4	1938.1	1960.7	1959.2	1947.2	1903.4	1837.0	1779.6
8036.2	40°	5942.6	3664.9	2012.1	1921.5	1924.5	1942.6	1910.9	1826.4	1675.5	1581.9
8652.0	42.5°	6188.7	3784.1	1983.4	1880.7	1900.4	1918.5	1856.6	1660.4	1553.2	1497.4
9298.1	45°	6501.1	3992.4	2045.3	1821.9	1843.0	1874.7	1690.6	1597.0	1548.7	1550.2
9938.1	47.5°	6896.6	4211.3	2160.0	1770.6	1760.0	1778.1	1580.4	1523.0	1456.6	1473.2
10552.4	50°	7353.9	4433.2	2268.7	1701.1	1667.9	1609.0	1509.4	1455.1	1370.6	1331.3
11145.6	52.5°	7849.0	4647.5	2312.4	1616.6	1568.3	1500.4	1461.1	1394.7	1292.1	1227.2
11705.6	55°	8318.5	4842.2	2264.1	1515.5	1468.7	1415.8	1409.8	1369.1	1258.9	1168.3
12203.7	57.5°	8762.2	5005.3	2143.4	1412.8	1367.5	1335.8	1376.6	1357.0	1218.1	1101.9
12674.7	60°	9138.1	5117.0	1968.3	1308.7	1277.0	1260.4	1322.3	1316.2	1160.7	1030.9
13097.3	62.5°	9436.9	5160.7	1775.1	1209.1	1201.5	1171.3	1246.8	1246.8	1088.3	961.5
13468.6	65°	9670.9	5118.5	1578.9	1110.9	1126.0	1080.8	1154.7	1145.7	1011.3	899.6
13895.8	67.5°	9877.7	4979.6	1361.5	1014.3	1049.1	991.7	1058.1	1037.0	926.8	837.7
14265.6	70°	9969.8	4656.6	1114.0	917.7	960.0	904.1	961.5	922.3	831.7	771.3
13859.6	72.5°	9230.1	3870.2	877.0	816.6	852.8	807.5	857.4	812.1	729.1	701.9
11968.3	75°	7636.2	2904.1	674.7	706.4	733.6	698.9	732.1	698.9	623.4	643.0
8840.7	77.5°	5545.6	1960.7	516.2	590.2	602.3	584.1	612.8	575.1	507.2	502.6
4406.0	80°	2757.7	1148.7	404.5	466.4	461.9	449.8	483.0	464.9	407.5	431.7
1189.4	82.5°	798.5	492.1	294.3	327.5	318.5	321.5	345.7	354.7	531.3	526.8
369.8	85°	250.6	193.2	176.6	182.6	173.6	178.1	203.8	404.5	374.3	218.9
114.7	87.5°	64.9	66.4	43.8	46.8	48.3	57.4	64.9	246.0	117.7	77.0
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>
5150.2
4904.1
4375.8
3646.8
3080.7
2818.1
2629.4
2564.5
2544.9
2470.9
2347.2
2246.0
2150.9
2046.8
1930.6
1799.2
1594.0
1497.4
1557.7
1515.5
1341.9
1225.7
1168.3
1095.8
1026.4
957.0
893.6
831.7
759.2
679.2
587.2
480.0
427.2
538.9
237.0
81.5
0.0

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