

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: P955716

Luminaire Tested: **GALN-SB8C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955716
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-SB8C-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 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: 53181 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

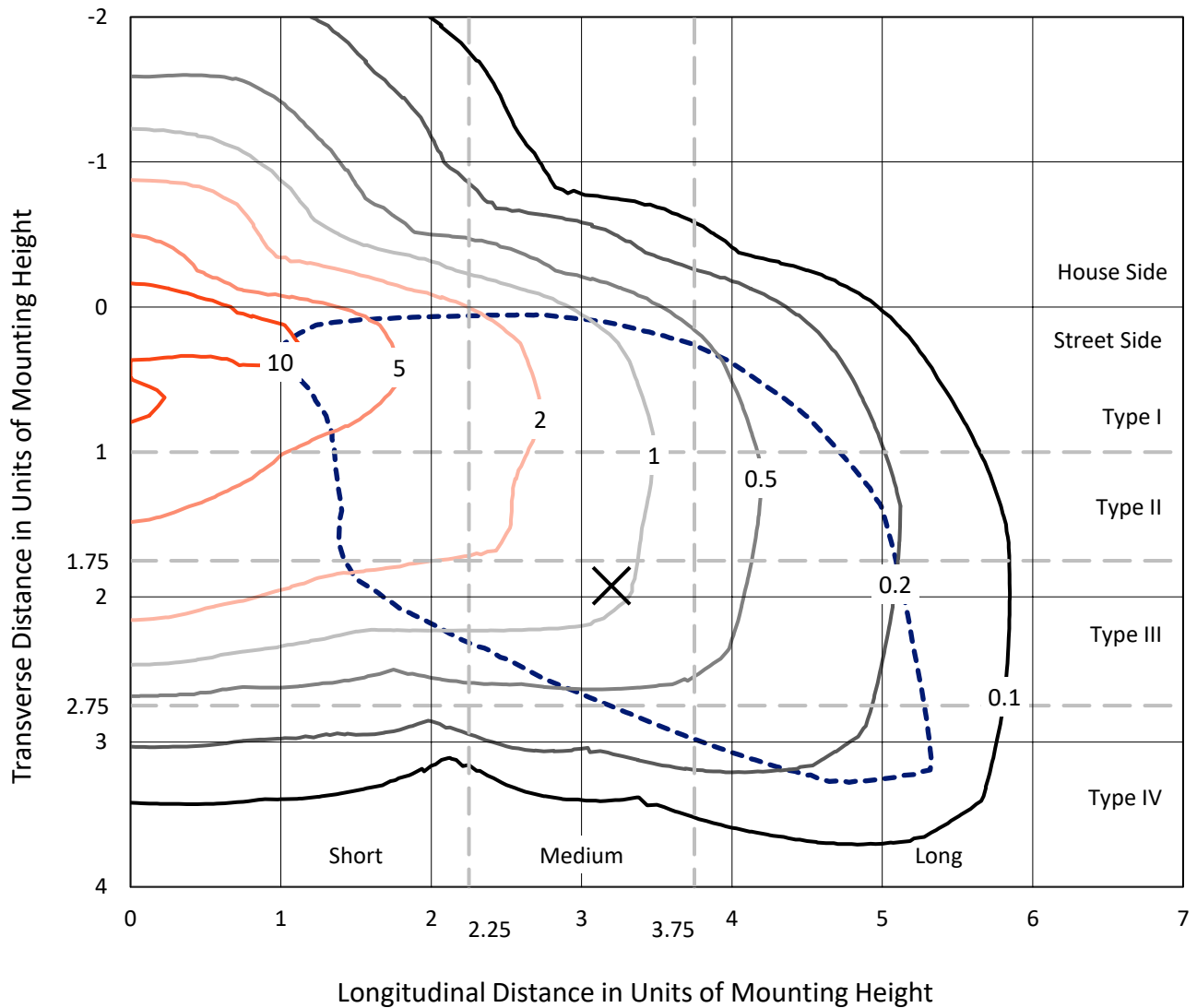
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

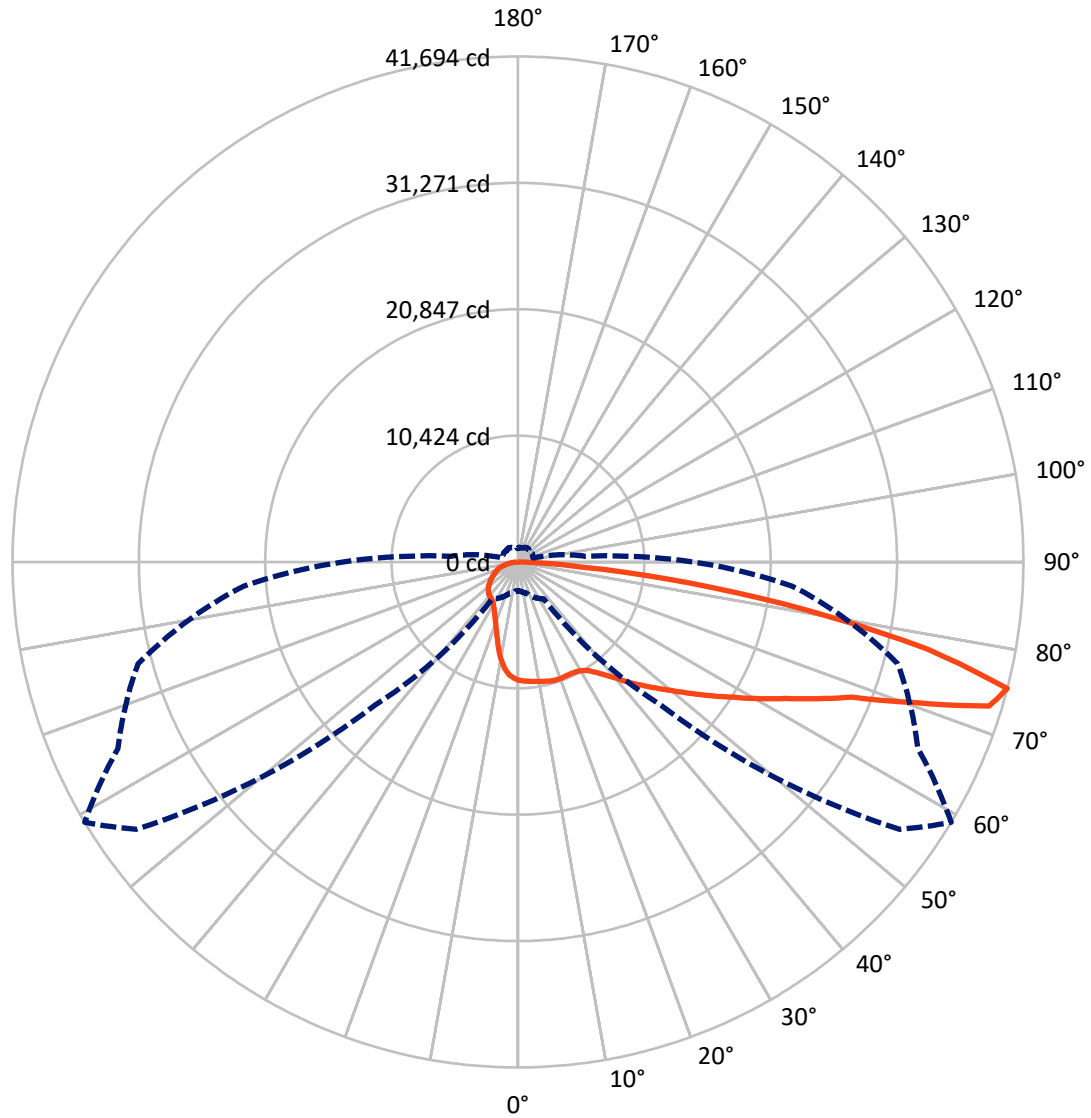
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	9974.5	0.0	9974.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	43206.5	0.0	43206.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	53181.0	0.0	53181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.2	1.6
10°-20°	2237.2	4.2
20°-30°	3398.1	6.4
30°-40°	5051.2	9.5
40°-50°	7512.1	14.1
50°-60°	10196.8	19.2
60°-70°	12448.6	23.4
70°-80°	9769.5	18.4
80°-90°	1692.3	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°	53181.0	100.0
0°-180°	53181.0	100.0

Coefficient of Utilization

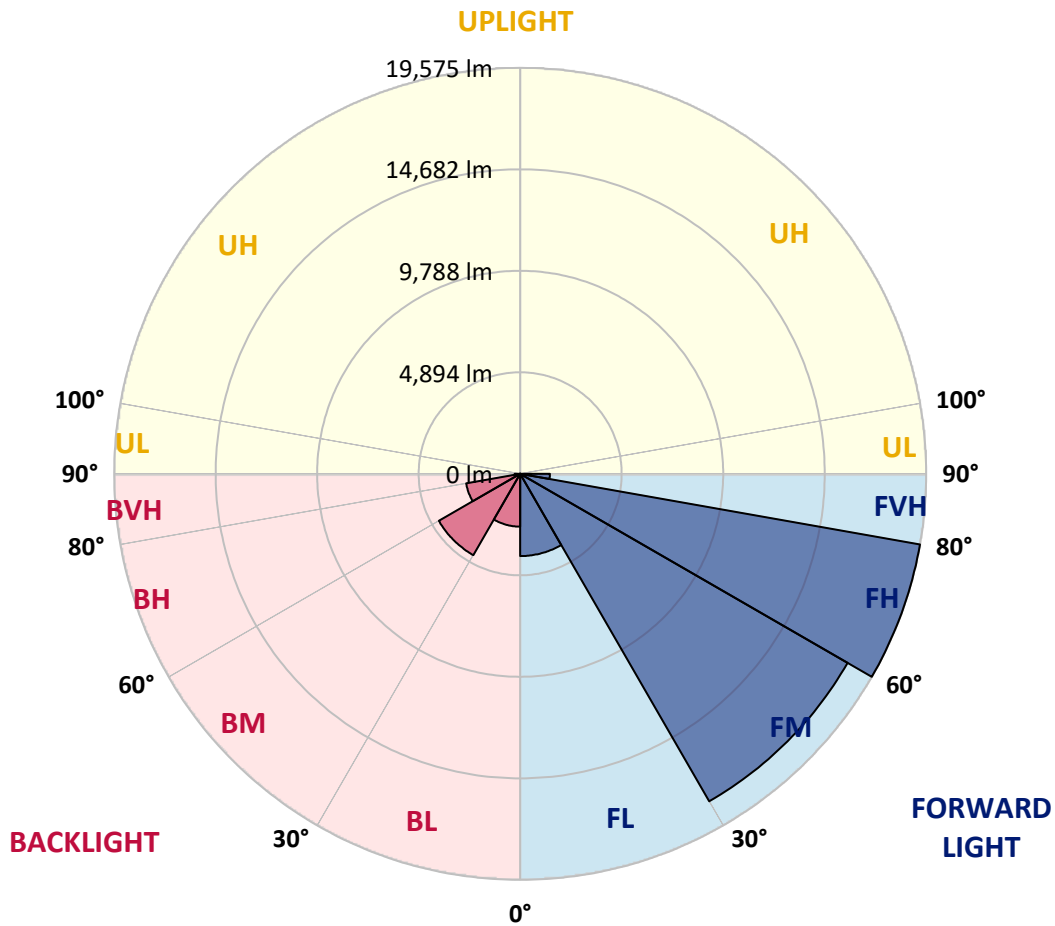


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3965.2	7.5			
FM (30°-60°)	18232.7	34.3			
FH (60°-80°)	19575.4	36.8			G5
FVH (80°-90°)	1433.3	2.7			G5
BL (0°-30°)	2545.4	4.8	B4/5000		
BM (30°-60°)	4527.4	8.5	B3/5000		
BH (60°-80°)	2642.6	5.0	B4/5000		G4/5000
BVH (80°-90°)	259.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3
2.5°	9844.2	9809.9	9844.2	9829.9	9824.2	9812.7	9815.6	9835.6	9824.2	9838.5
5°	9778.4	9758.4	9792.7	9784.1	9821.3	9827.1	9864.2	9887.1	9901.4	9904.3
7.5°	9669.7	9649.7	9698.3	9738.4	9818.5	9841.4	9918.6	9955.8	9975.8	10010.1
10°	9272.0	9263.5	9383.6	9535.2	9724.1	9841.4	9958.7	10021.6	10053.1	10144.6
12.5°	8568.3	8579.7	8737.1	9028.9	9406.5	9784.1	10004.4	10096.0	10144.6	10259.0
15°	7896.0	7893.1	8064.8	8376.6	8905.9	9532.4	10027.3	10184.7	10267.6	10436.4
17.5°	7506.9	7495.5	7615.6	7853.1	8345.1	9146.2	9970.1	10233.3	10410.7	10622.4
20°	7435.4	7412.5	7475.4	7592.7	7941.7	8722.8	9821.3	10233.3	10525.1	10799.7
22.5°	7695.7	7658.5	7632.8	7618.5	7773.0	8373.7	9652.5	10199.0	10693.9	11054.4
25°	8219.3	8162.0	8030.4	7901.7	7855.9	8216.4	9503.8	10190.4	10945.7	11397.7
27.5°	9066.1	8994.5	8728.5	8419.5	8142.0	8296.5	9438.0	10241.9	11223.2	11761.0
30°	10116.0	10038.8	9704.0	9229.1	8731.3	8594.0	9520.9	10393.5	11577.9	12244.5
32.5°	11057.2	10971.4	10685.3	10201.8	9529.5	9109.0	9784.1	10682.5	12135.8	12916.8
35°	11892.6	11792.5	11535.0	11088.7	10507.9	9832.8	10259.0	11194.5	12928.2	14009.6
37.5°	12710.8	12593.5	12313.1	11841.1	11434.9	10796.9	10914.2	11852.5	13981.0	15337.1
40°	13626.3	13457.5	13117.0	12650.7	12255.9	11926.9	11775.3	12659.3	15051.0	16819.0
42.5°	14513.1	14352.9	13946.7	13549.0	13054.1	12959.7	12773.7	13603.4	16221.1	18446.8
45°	15468.7	15277.0	14784.9	14281.4	13969.6	13646.3	13740.7	14547.5	17368.3	20106.1
47.5°	16364.1	16149.6	15568.8	15008.1	14836.4	14224.2	14627.6	15586.0	18561.3	21788.3
50°	16847.6	16635.9	16152.4	15646.0	15511.6	14936.5	15588.8	16727.4	19811.5	23464.8
52.5°	17251.0	17022.1	16389.9	16109.5	16069.5	15711.8	16773.2	18032.0	21061.7	24946.7
55°	17680.1	17425.5	16618.7	16367.0	16550.1	16581.5	18177.9	19511.1	22383.4	26391.4
57.5°	18175.0	17851.8	16839.0	16584.4	17019.3	17600.0	19791.4	21044.5	23682.2	27730.3
60°	18641.4	18315.2	17262.4	16930.6	17525.6	18781.5	21642.4	22901.2	25152.7	28923.3
62.5°	18732.9	18464.0	17600.0	17597.1	18212.2	20160.5	23833.8	24775.0	26437.2	30102.0
65°	17148.0	16979.2	16467.1	17571.4	19196.4	22145.9	26274.1	27172.4	28070.8	31131.9
67.5°	13051.2	13074.1	13036.9	15168.3	18401.1	24998.2	29807.3	29738.6	30087.7	32287.7
70°	5967.8	6102.2	6977.6	10470.7	14742.0	25327.2	35649.2	34759.4	32619.5	33783.9
72.5°	3224.2	3327.2	3684.8	5072.3	8862.9	22517.8	40014.8	40647.1	35986.8	34790.9
75°	2365.9	2423.1	2672.0	3224.2	3722.0	16736.0	38450.0	41694.2	36407.3	32442.2
77.5°	1770.9	1796.6	1999.7	2554.7	1905.3	8822.9	30722.8	34530.6	31166.2	26654.6
80°	1284.5	1313.1	1464.8	1916.8	1336.0	3227.0	21096.0	24237.2	21344.9	16990.6
82.5°	886.9	898.3	964.1	1304.6	932.6	1253.1	11969.8	14212.8	11915.5	5962.0
85°	535.0	549.3	577.9	761.0	529.3	595.1	5166.7	5344.1	3561.8	1424.7
87.5°	220.3	234.6	257.5	320.4	208.8	165.9	852.5	1070.0	666.6	417.7
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°
9761.3	0°	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3	9761.3
9789.9	2.5°	9775.6	9755.5	9701.2	9626.8	9558.1	9472.3	9435.1	9403.6	9375.0	9320.7
9867.1	5°	9835.6	9781.3	9635.4	9446.6	9232.0	8997.4	8768.5	8611.2	8476.7	8376.6
9955.8	7.5°	9927.2	9824.2	9558.1	9171.9	8679.8	8176.3	7721.5	7398.2	7155.0	7066.3
10081.7	10°	10021.6	9898.6	9435.1	8754.2	7904.6	7129.3	6525.6	6193.8	5999.2	5936.3
10230.4	12.5°	10133.2	9952.9	9243.4	8173.5	7037.7	6188.0	5661.6	5467.1	5367.0	5332.6
10413.5	15°	10296.2	9998.7	8954.5	7446.8	6210.9	5501.4	5161.0	5026.5	4975.0	4972.2
10602.3	17.5°	10419.3	10007.3	8505.3	6668.7	5575.8	5086.6	4806.2	4754.7	4789.1	4840.6
10788.3	20°	10556.6	9930.0	7916.0	5959.2	5129.5	4723.3	4606.0	4640.3	4723.3	4797.7
11034.3	22.5°	10653.8	9789.9	7203.6	5407.0	4743.3	4514.4	4508.7	4580.2	4626.0	4663.2
11323.3	25°	10739.7	9552.4	6448.4	4943.6	4425.8	4388.6	4451.5	4428.6	4397.1	4428.6
11612.2	27.5°	10802.6	9177.6	5773.2	4537.3	4202.6	4302.7	4265.5	4214.0	4211.2	4228.4
11952.7	30°	10782.6	8677.0	5218.2	4151.1	4045.3	4142.5	4053.8	4045.3	4036.7	4045.3
12464.8	32.5°	10782.6	8107.7	4791.9	3885.0	3945.1	3907.9	3899.4	3879.3	3845.0	3842.1
13160.0	35°	10842.7	7538.4	4425.8	3742.0	3862.2	3773.5	3779.2	3730.6	3659.0	3624.7
14081.2	37.5°	10965.7	7080.6	4062.4	3673.3	3716.3	3713.4	3690.5	3607.5	3481.7	3373.0
15231.2	40°	11263.2	6946.2	3813.5	3641.9	3647.6	3681.9	3621.8	3461.6	3175.6	2998.2
16398.4	42.5°	11729.5	7172.2	3759.2	3564.6	3601.8	3636.2	3518.9	3146.9	2943.8	2838.0
17622.9	45°	12321.7	7567.0	3876.5	3453.1	3493.1	3553.2	3204.2	3026.8	2935.2	2938.1
18835.9	47.5°	13071.3	7981.8	4093.9	3355.8	3335.8	3370.1	2995.3	2886.6	2760.7	2792.2
20000.3	50°	13938.1	8402.3	4299.9	3224.2	3161.3	3049.7	2860.9	2757.9	2597.7	2523.3
21124.6	52.5°	14876.5	8808.6	4382.8	3064.0	2972.4	2843.7	2769.3	2643.4	2448.9	2325.9
22186.0	55°	15766.2	9177.6	4291.3	2872.3	2783.6	2683.5	2672.0	2594.8	2386.0	2214.3
23130.1	57.5°	16607.3	9486.6	4062.4	2677.8	2591.9	2531.9	2609.1	2571.9	2308.7	2088.4
24022.6	60°	17319.6	9698.3	3730.6	2480.4	2420.3	2388.8	2506.1	2494.7	2200.0	1954.0
24823.7	62.5°	17886.1	9781.3	3364.4	2291.5	2277.2	2220.0	2363.1	2363.1	2062.7	1822.4
25527.5	65°	18329.5	9701.2	2992.5	2105.6	2134.2	2048.4	2188.6	2171.4	1916.8	1705.1
26337.1	67.5°	18721.5	9438.0	2580.5	1922.5	1988.3	1879.6	2005.5	1965.4	1756.6	1587.8
27038.0	70°	18896.0	8825.8	2111.3	1739.4	1819.5	1713.7	1822.4	1748.0	1576.3	1461.9
26268.4	72.5°	17494.2	7335.2	1662.2	1547.7	1616.4	1530.6	1625.0	1539.1	1381.8	1330.3
22683.8	75°	14473.1	5504.3	1278.8	1338.9	1390.4	1324.6	1387.5	1324.6	1181.5	1218.7
16756.1	77.5°	10510.8	3716.3	978.4	1118.6	1141.5	1107.2	1161.5	1090.0	961.2	952.7
8350.9	80°	5226.8	2177.1	766.7	884.0	875.4	852.5	915.5	881.1	772.4	818.2
2254.4	82.5°	1513.4	932.6	557.9	620.8	603.6	609.4	655.1	672.3	1007.0	998.4
700.9	85°	474.9	366.2	334.7	346.2	329.0	337.6	386.2	766.7	709.5	414.8
217.4	87.5°	123.0	125.9	83.0	88.7	91.5	108.7	123.0	466.3	223.1	145.9
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>
9761.3
9294.9
8293.6
6911.8
5839.0
5341.2
4983.6
4860.6
4823.4
4683.2
4448.6
4257.0
4076.7
3879.3
3659.0
3410.1
3021.1
2838.0
2952.4
2872.3
2543.3
2323.0
2214.3
2077.0
1945.4
1813.8
1693.6
1576.3
1439.0
1287.4
<i>1112.9</i>
909.8
809.6
1021.3
449.2
154.5
0.0

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