

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: P952870

Luminaire Tested: **GALN-SB6C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6C-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41892 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

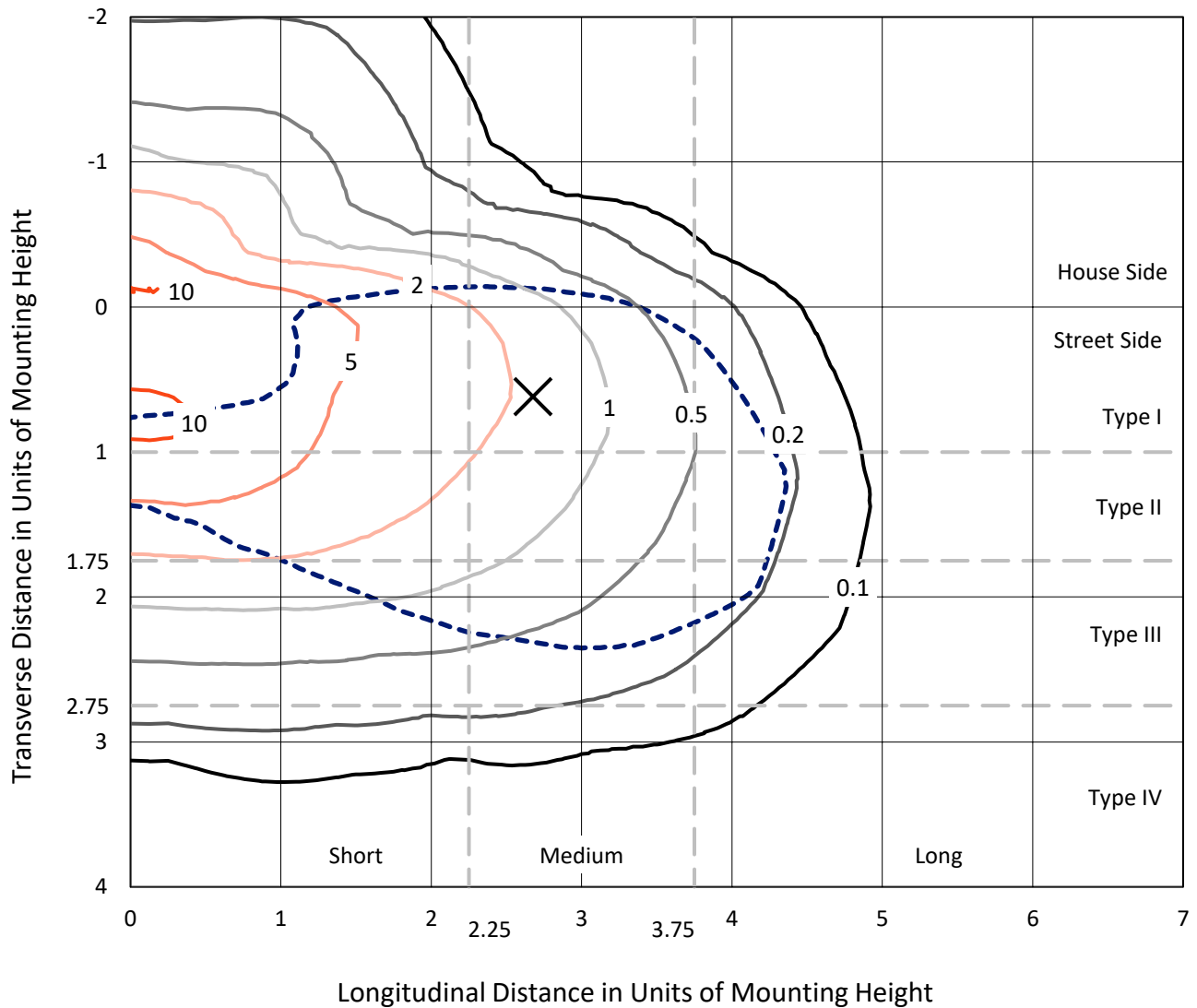
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

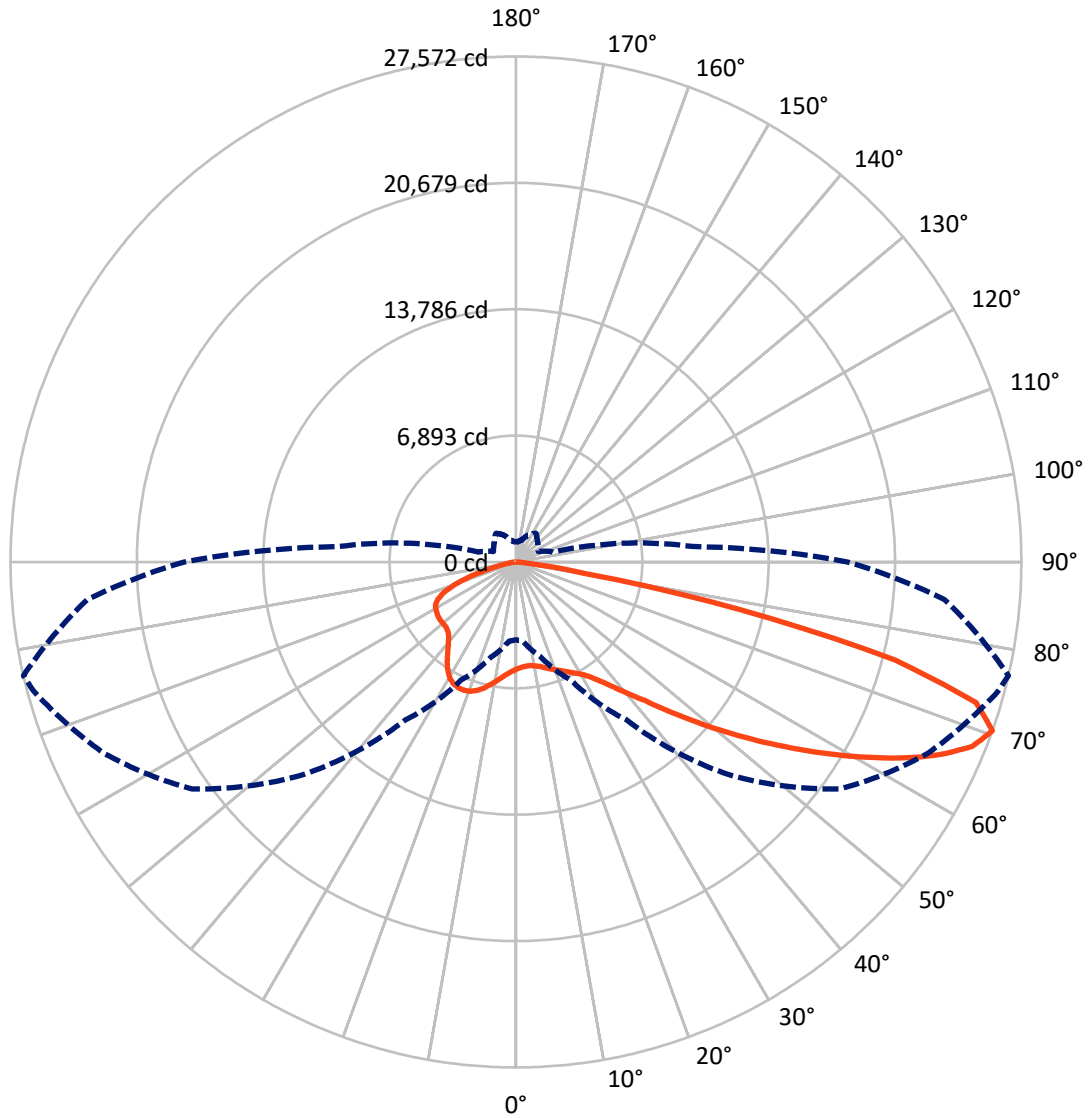
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9173.7	0.0	9173.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32718.3	0.0	32718.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	41892.0	0.0	41892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.4	1.3
10°-20°	1608.7	3.8
20°-30°	2751.1	6.6
30°-40°	4424.0	10.6
40°-50°	6907.0	16.5
50°-60°	9226.2	22.0
60°-70°	9833.7	23.5
70°-80°	6053.5	14.5
80°-90°	530.5	1.3
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°	41892.0	100.0
0°-180°	41892.0	100.0

Coefficient of Utilization



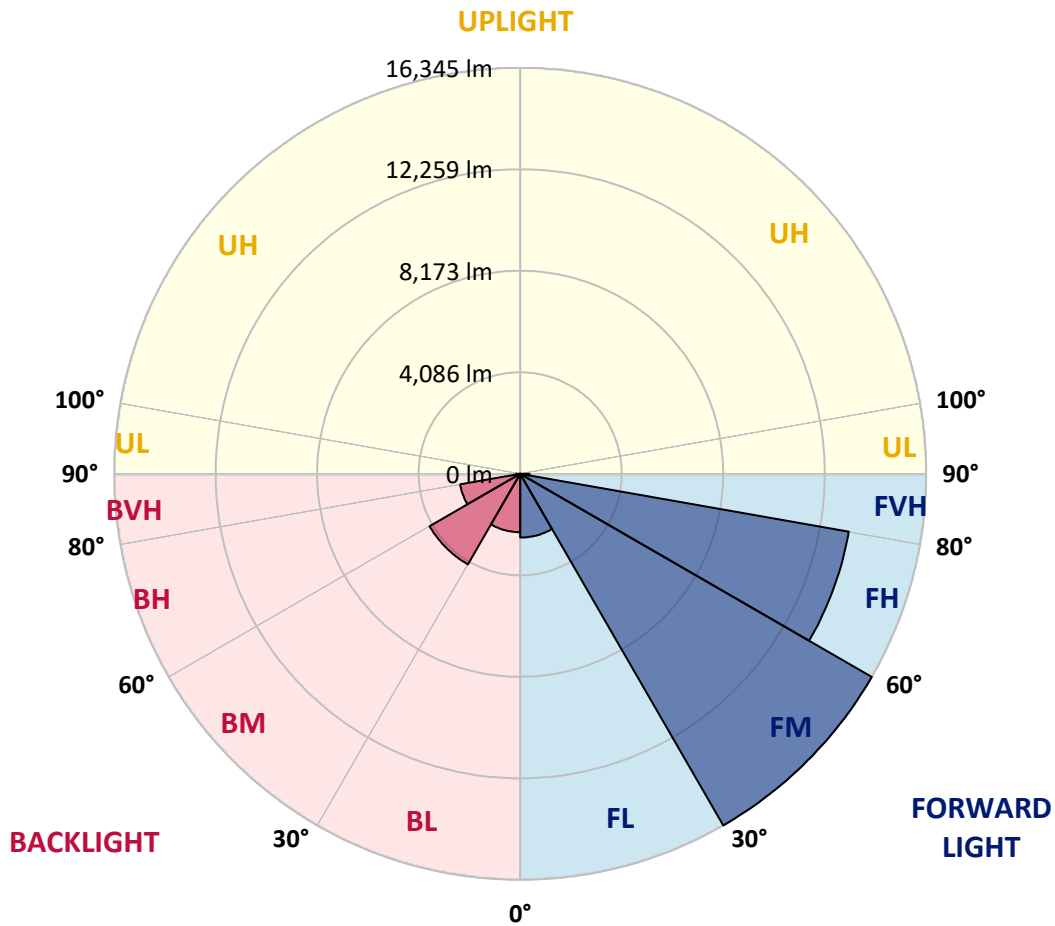
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2566.6	6.1			
FM	(30°-60°)	16345.4	39.0			
FH	(60°-80°)	13435.5	32.1			G5
FVH	(80°-90°)	370.9	0.9			G3/500
BL	(0°-30°)	2350.6	5.6	B3/2500		
BM	(30°-60°)	4211.8	10.1	B3/5000		
BH	(60°-80°)	2451.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	159.5	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3
2.5°	5387.3	5385.2	5413.1	5421.7	5473.1	5509.6	5578.3	5651.2	5745.6	5756.4
5°	5076.2	5076.2	5108.4	5142.7	5209.3	5282.2	5387.3	5513.9	5677.0	5702.7
7.5°	4812.3	4829.5	4857.4	4923.9	5001.1	5106.3	5267.2	5447.4	5661.9	5702.7
10°	4599.9	4619.2	4653.6	4707.2	4823.1	4969.0	5179.2	5410.9	5698.4	5762.8
12.5°	4533.4	4552.7	4572.0	4612.8	4720.1	4891.7	5142.7	5428.1	5786.4	5850.8
15°	4687.9	4711.5	4696.5	4685.8	4741.5	4898.2	5159.9	5490.3	5895.8	5988.1
17.5°	5044.0	5052.6	5018.3	4917.5	4908.9	4992.6	5241.4	5576.1	6033.1	6134.0
20°	5619.0	5604.0	5533.2	5333.7	5220.0	5202.8	5380.9	5704.9	6174.7	6282.0
22.5°	6400.0	6382.8	6241.2	5925.8	5672.7	5505.3	5582.6	5872.2	6333.5	6453.6
25°	7374.1	7350.5	7142.3	6713.2	6320.6	5906.5	5857.2	6093.2	6528.7	6640.3
27.5°	8511.2	8491.9	8266.6	7700.2	7133.8	6455.8	6198.3	6352.8	6732.5	6859.1
30°	9734.1	9789.9	9390.8	8781.5	8064.9	7172.4	6657.5	6672.5	6996.4	7110.2
32.5°	11171.6	11268.1	10787.5	10015.1	9036.8	7951.2	7236.7	7118.7	7380.5	7474.9
35°	12596.2	12705.6	12306.5	11452.6	10326.2	8869.5	7841.8	7631.5	7891.1	7994.1
37.5°	13827.7	13973.6	13767.6	13025.3	11705.8	9976.5	8631.3	8234.4	8519.7	8648.5
40°	14799.6	15022.7	15007.7	14544.3	13332.1	11319.6	9633.3	8978.9	9300.7	9440.2
42.5°	15589.1	15782.2	15949.6	15926.0	15029.2	12845.1	10811.1	9946.5	10191.1	10352.0
45°	16134.1	16340.1	16700.5	17088.8	16661.9	14477.8	12160.6	11094.3	11317.5	11559.9
47.5°	16621.1	16855.0	17322.7	17938.4	18047.9	16116.9	13638.9	12431.0	12634.8	12885.8
50°	16664.0	16865.7	17590.9	18464.1	19032.6	17691.7	15226.5	13930.7	14121.6	14389.8
52.5°	15627.8	15945.3	17211.1	18449.1	19485.3	19009.0	16803.5	15490.4	15705.0	16026.8
55°	12130.6	12596.2	16097.6	17874.1	19324.4	19860.8	18303.2	17148.9	17423.5	17760.4
57.5°	10448.5	10652.4	12778.5	16827.1	18590.7	20081.8	19569.0	18824.5	19266.5	19635.5
60°	9390.8	9560.3	10817.6	15198.7	17625.2	19732.1	20547.4	20386.5	21150.2	21590.1
62.5°	8258.0	8418.9	9562.5	12690.6	16389.4	19150.6	21165.3	21828.2	23081.2	23561.8
65°	7133.8	7271.1	8367.4	10663.1	14818.9	18569.2	21484.9	23074.8	24868.4	25366.1
67.5°	5880.8	5994.5	7030.8	8996.0	12909.4	17773.2	21643.7	24055.2	26423.9	26850.8
70°	4243.8	4331.7	5402.3	7114.4	10512.9	16404.4	21579.3	24750.4	27230.6	27571.7
72.5°	2006.0	2085.4	3342.7	4619.2	7425.5	13739.7	20277.0	24199.0	26411.0	26241.5
75°	1070.6	1139.3	1920.2	2533.8	3922.0	9418.7	16593.2	20845.6	22177.9	21354.1
77.5°	725.2	778.8	1188.6	1521.2	1791.5	4471.2	10665.2	14432.7	13885.6	12525.4
80°	575.0	630.8	974.1	1029.8	866.8	1615.6	4406.8	6681.1	4799.5	3838.3
82.5°	442.0	504.2	819.6	746.6	472.0	663.0	1283.0	2113.3	1229.4	935.4
85°	270.3	336.8	643.6	476.3	266.0	302.5	435.5	587.9	375.5	313.2
87.5°	137.3	193.1	326.1	173.8	120.1	70.8	115.9	115.9	98.7	85.8
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°
5844.3	0°	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3	5844.3
5814.3	2.5°	5865.8	5908.7	5981.6	6050.3	6103.9	6155.4	6206.9	6234.8	6243.4	6277.7
5846.5	5°	5934.4	6013.8	6155.4	6288.4	6372.1	6423.6	6460.1	6481.5	6485.8	6496.5
5934.4	7.5°	6061.0	6187.6	6385.0	6518.0	6580.2	6575.9	6560.9	6507.3	6485.8	6466.5
6063.2	10°	6239.1	6406.4	6648.9	6741.1	6702.5	6599.5	6466.5	6309.9	6236.9	6166.1
6239.1	12.5°	6460.1	6672.5	6910.6	6906.3	6715.4	6451.5	6142.5	5902.2	5749.9	5640.5
6455.8	15°	6728.3	6972.8	7155.2	7009.3	6590.9	6116.8	5664.1	5350.9	5213.5	5093.4
6674.6	17.5°	7005.0	7266.8	7350.5	6977.1	6277.7	5621.2	5108.4	4861.7	4726.5	4662.2
6910.6	20°	7275.4	7535.0	7466.3	6792.6	5801.4	5059.1	4602.1	4466.9	4439.0	4454.0
7140.2	22.5°	7560.7	7792.4	7489.9	6436.5	5194.2	4484.1	4233.1	4237.3	4299.6	4344.6
7380.5	25°	7852.5	8009.1	7427.7	5921.6	4542.0	4061.4	3999.2	4067.9	4190.1	4278.1
7650.8	27.5°	8133.6	8202.2	7292.5	5284.3	3982.0	3758.9	3769.6	3911.2	4095.7	4218.0
7979.1	30°	8451.1	8373.8	7032.9	4567.7	3593.7	3499.3	3589.4	3754.6	3939.1	4048.5
8393.2	32.5°	8809.4	8521.9	6621.0	3904.8	3319.1	3291.2	3439.2	3546.5	3628.0	3660.2
8942.4	35°	9255.6	8730.0	6093.2	3439.2	3072.3	3138.9	3280.5	3226.8	3194.6	3177.5
9680.5	37.5°	9834.9	9011.1	5475.3	3136.7	2872.8	3029.4	3087.4	2920.0	2793.4	2731.2
10575.1	40°	10532.2	9423.0	4881.0	2902.8	2746.2	2935.0	2834.2	2632.5	2471.6	2383.6
11581.4	42.5°	11306.7	9854.2	4381.1	2726.9	2675.4	2857.8	2647.5	2407.2	2147.6	2119.7
12780.7	45°	12119.9	10298.4	4040.0	2591.8	2641.1	2791.3	2540.3	2151.9	1967.4	2081.1
13984.3	47.5°	12933.0	10706.0	3834.0	2490.9	2623.9	2716.2	2445.9	2010.3	1879.4	2044.7
15273.7	50°	13838.4	11070.7	3741.7	2418.0	2604.6	2686.2	2304.3	1973.9	1787.2	1896.6
16608.2	52.5°	14737.4	11353.9	3673.1	2345.0	2576.7	2662.6	2235.6	1930.9	1675.6	1682.1
17951.3	55°	15634.2	11538.4	3598.0	2248.5	2514.5	2611.1	2229.2	1883.7	1592.0	1561.9
19371.6	57.5°	16591.1	11643.6	3505.7	2141.2	2407.2	2480.2	2222.7	1847.3	1566.2	1516.9
20824.1	60°	17565.1	11798.1	3385.6	2010.3	2263.5	2323.6	2207.7	1834.4	1551.2	1467.5
22193.0	62.5°	18438.3	11851.7	3241.8	1885.9	2079.0	2169.1	2175.5	1823.7	1510.4	1366.7
23330.1	65°	19011.2	11620.0	2990.8	1744.3	1879.4	2010.3	2113.3	1787.2	1437.5	1293.7
23892.2	67.5°	18987.6	10959.2	2598.2	1561.9	1686.4	1834.4	2023.2	1725.0	1349.5	1203.6
23467.4	70°	18103.6	9654.7	2100.4	1349.5	1474.0	1645.6	1907.3	1632.7	1244.4	1104.9
20867.0	72.5°	15526.9	7556.4	1525.4	1100.6	1227.2	1450.4	1757.2	1521.2	1137.1	1017.0
15421.8	75°	11092.2	4782.3	1034.1	845.3	954.7	1229.4	1570.5	1390.3	1038.4	1021.3
7723.8	77.5°	5666.2	2284.9	684.4	617.9	665.1	969.8	1319.5	1242.2	1053.4	843.2
2197.0	80°	1843.0	843.2	431.2	420.5	442.0	645.8	1021.3	1019.1	798.1	572.8
532.1	82.5°	587.9	362.6	281.1	270.3	259.6	405.5	712.3	806.7	538.5	362.6
190.9	85°	233.9	216.7	165.2	152.3	109.4	190.9	373.3	536.4	401.2	261.7
49.3	87.5°	85.8	85.8	45.1	32.2	23.6	64.4	100.8	160.9	229.6	135.2
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>
5844.3
6297.0
6513.7
6470.8
6144.7
5614.7
5080.5
4681.5
4447.6
4355.3
4301.7
4248.1
4074.3
3677.4
3194.6
2746.2
2390.1
2147.6
2141.2
2121.9
1978.1
1727.1
1583.4
1523.3
1474.0
1366.7
1293.7
1210.1
<i>1117.8</i>
1010.5
963.3
750.9
506.3
360.4
268.2
133.0
0.0

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