

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: P952513

Luminaire Tested: **GALN-SB6B-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952513
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-SB6B-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31499 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

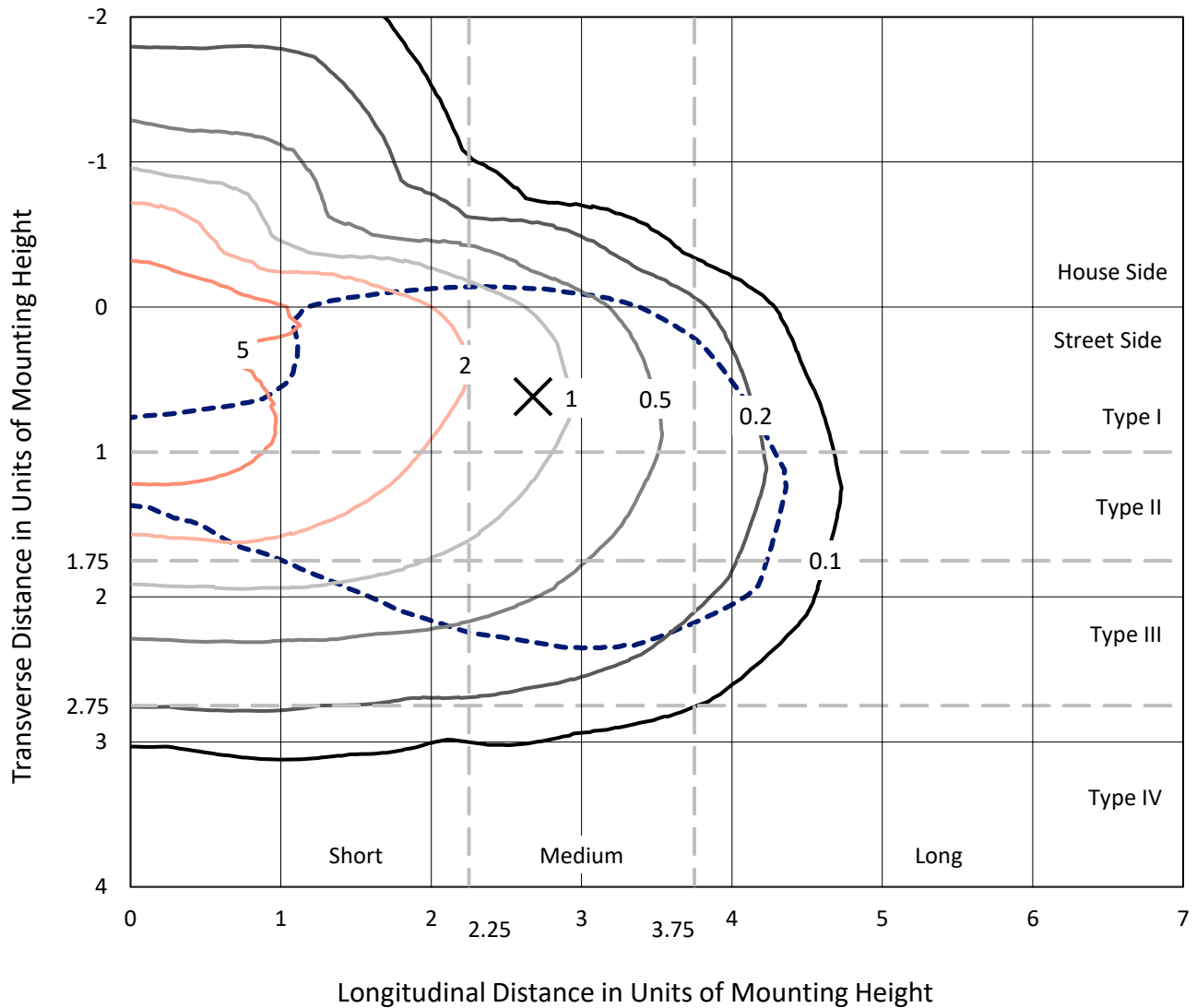
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

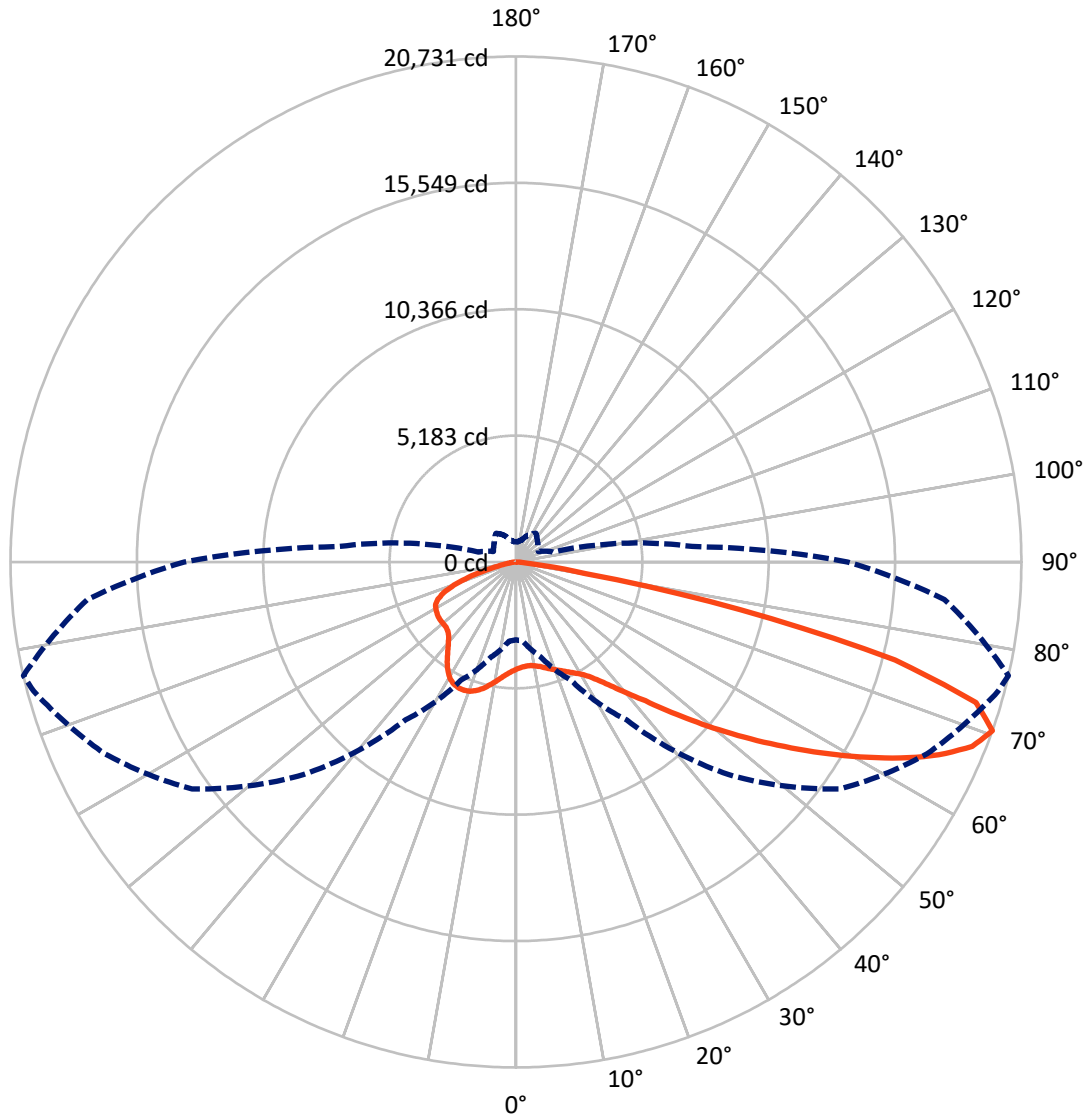
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	6897.8	0.0	6897.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	24601.2	0.0	24601.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	31499.0	0.0	31499.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	1.3
10°-20°	1209.6	3.8
20°-30°	2068.6	6.6
30°-40°	3326.5	10.6
40°-50°	5193.5	16.5
50°-60°	6937.2	22.0
60°-70°	7394.0	23.5
70°-80°	4551.7	14.5
80°-90°	398.9	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°	31499.0	100.0
0°-180°	31499.0	100.0



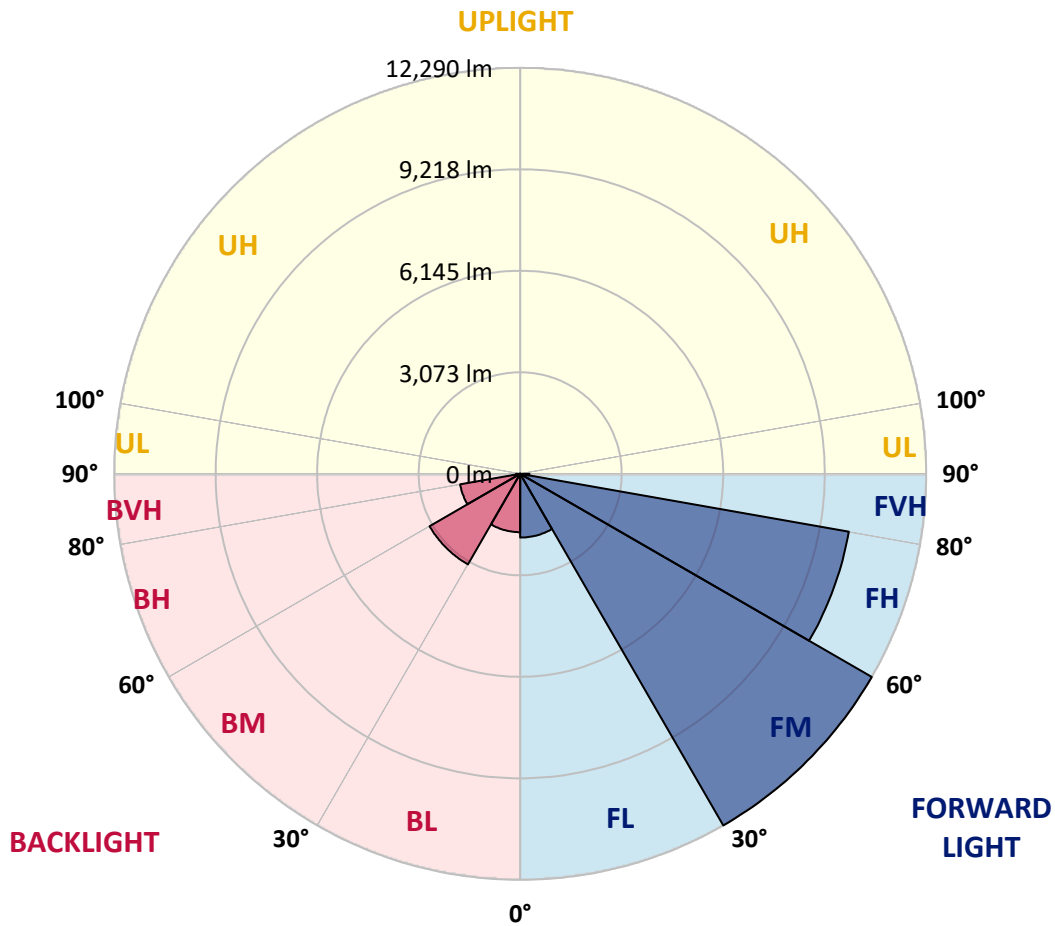
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.8	6.1			
FM (30°-60°)	12290.2	39.0			
FH (60°-80°)	10102.3	32.1			G4/12000
FVH (80°-90°)	278.9	0.9			G3/500
BL (0°-30°)	1767.4	5.6	B3/2500		
BM (30°-60°)	3166.9	10.1	B3/5000		
BH (60°-80°)	1843.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	120.0	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-G4

Type III Medium



REPORT NUMBER: P952513
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4
2.5°	4050.8	4049.2	4070.1	4076.6	4115.3	4142.7	4194.4	4249.2	4320.2	4328.3
5°	3816.9	3816.9	3841.1	3866.9	3916.9	3971.7	4050.8	4146.0	4268.6	4287.9
7.5°	3618.4	3631.3	3652.3	3702.3	3760.4	3839.5	3960.4	4096.0	4257.3	4287.9
10°	3458.7	3473.3	3499.1	3539.4	3626.5	3736.2	3894.3	4068.5	4284.7	4333.1
12.5°	3408.7	3423.2	3437.8	3468.4	3549.1	3678.1	3866.9	4081.4	4350.8	4399.2
15°	3524.9	3542.6	3531.3	3523.3	3565.2	3683.0	3879.8	4128.2	4433.1	4502.5
17.5°	3792.7	3799.1	3773.3	3697.5	3691.0	3754.0	3941.1	4192.7	4536.4	4612.2
20°	4225.0	4213.7	4160.5	4010.5	3925.0	3912.0	4045.9	4289.5	4642.8	4723.5
22.5°	4812.2	4799.3	4692.8	4455.7	4265.3	4139.5	4197.6	4415.4	4762.2	4852.6
25°	5544.6	5526.9	5370.4	5047.7	4752.5	4441.2	4404.1	4581.5	4909.0	4992.9
27.5°	6399.6	6385.1	6215.7	5789.8	5363.9	4854.2	4660.6	4776.7	5062.3	5157.4
30°	7319.2	7361.1	7061.0	6602.9	6064.1	5393.0	5005.8	5017.1	5260.7	5346.2
32.5°	8400.0	8472.6	8111.2	7530.5	6794.9	5978.6	5441.4	5352.6	5549.5	5620.4
35°	9471.2	9553.5	9253.4	8611.3	7764.4	6669.0	5896.3	5738.2	5933.4	6010.8
37.5°	10397.2	10506.9	10352.0	9793.8	8801.7	7501.5	6490.0	6191.5	6406.1	6502.9
40°	11128.0	11295.7	11284.4	10936.0	10024.5	8511.3	7243.3	6751.3	6993.3	7098.1
42.5°	11721.6	11866.8	11992.6	11974.9	11300.6	9658.3	8129.0	7478.9	7662.8	7783.8
45°	12131.4	12286.2	12557.3	12849.3	12528.2	10886.0	9143.7	8341.9	8509.7	8692.0
47.5°	12497.6	12673.4	13025.1	13488.1	13570.4	12118.5	10255.2	9347.0	9500.2	9689.0
50°	12529.8	12681.5	13226.8	13883.3	14310.8	13302.6	11449.0	10474.6	10618.2	10819.8
52.5°	11750.7	11989.4	12941.2	13872.0	14651.2	14293.1	12634.7	11647.4	11808.7	12050.7
55°	9121.1	9471.2	12104.0	13439.7	14530.2	14933.5	13762.3	12894.4	13100.9	13354.2
57.5°	7856.4	8009.6	9608.3	12652.4	13978.5	15099.7	14714.1	14154.3	14486.7	14764.1
60°	7061.0	7188.5	8133.8	11428.0	13252.6	14836.7	15449.8	15328.8	15903.1	16233.8
62.5°	6209.3	6330.3	7190.1	9542.2	12323.3	14399.6	15914.4	16412.9	17355.0	17716.3
65°	5363.9	5467.2	6291.5	8017.7	11142.5	13962.4	16154.7	17350.1	18698.8	19073.0
67.5°	4421.8	4507.3	5286.5	6764.2	9706.7	13363.9	16274.1	18087.4	19868.4	20189.4
70°	3190.9	3257.1	4062.1	5349.4	7904.8	12334.6	16225.7	18610.0	20474.9	20731.4
72.5°	1508.4	1568.0	2513.4	3473.3	5583.3	10331.0	15246.5	18195.5	19858.7	19731.2
75°	805.0	856.6	1443.8	1905.2	2949.0	7082.0	12476.6	15674.0	16675.8	16056.3
77.5°	545.3	585.6	893.7	1143.8	1347.0	3361.9	8019.3	10852.1	10440.7	9417.9
80°	432.3	474.3	732.4	774.3	651.7	1214.8	3313.5	5023.6	3608.8	2886.0
82.5°	332.3	379.1	616.2	561.4	354.9	498.5	964.7	1589.0	924.4	703.4
85°	203.3	253.3	484.0	358.1	200.0	227.5	327.5	442.0	282.3	235.5
87.5°	103.2	145.2	245.2	130.7	90.3	53.2	87.1	87.1	74.2	64.5
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°
4394.4	0°	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4	4394.4
4371.8	2.5°	4410.5	4442.8	4497.6	4549.3	4589.6	4628.3	4667.0	4688.0	4694.5	4720.3
4396.0	5°	4462.2	4521.8	4628.3	4728.3	4791.2	4830.0	4857.4	4873.5	4876.7	4884.8
4462.2	7.5°	4557.3	4652.5	4800.9	4900.9	4947.7	4944.5	4933.2	4892.9	4876.7	4862.2
4558.9	10°	4691.2	4817.1	4999.4	5068.7	5039.7	4962.2	4862.2	4744.5	4689.6	4636.4
4691.2	12.5°	4857.4	5017.1	5196.2	5192.9	5049.4	4850.9	4618.6	4438.0	4323.4	4241.1
4854.2	15°	5059.0	5242.9	5380.1	5270.4	4955.8	4599.3	4258.9	4023.4	3920.1	3829.8
5018.7	17.5°	5267.1	5464.0	5526.9	5246.2	4720.3	4226.6	3841.1	3655.5	3553.9	3505.5
5196.2	20°	5470.4	5665.6	5614.0	5107.4	4362.1	3804.0	3460.3	3358.7	3337.7	3349.0
5368.8	22.5°	5685.0	5859.2	5631.7	4839.6	3905.6	3371.6	3182.9	3186.1	3232.9	3266.8
5549.5	25°	5904.4	6022.1	5585.0	4452.5	3415.2	3053.8	3007.0	3058.7	3150.6	3216.8
5752.7	27.5°	6115.7	6167.3	5483.3	3973.3	2994.1	2826.4	2834.4	2940.9	3079.6	3171.6
5999.5	30°	6354.5	6296.4	5288.1	3434.5	2702.1	2631.2	2698.9	2823.1	2961.9	3044.1
6310.9	32.5°	6623.9	6407.7	4978.4	2936.1	2495.6	2474.7	2586.0	2666.6	2727.9	2752.1
6723.9	35°	6959.4	6564.2	4581.5	2586.0	2310.1	2360.1	2466.6	2426.3	2402.1	2389.2
7278.8	37.5°	7395.0	6775.5	4116.9	2358.5	2160.1	2277.9	2321.4	2195.6	2100.4	2053.6
7951.5	40°	7919.3	7085.2	3670.1	2182.7	2064.9	2206.9	2131.1	1979.4	1858.4	1792.3
8708.1	42.5°	8501.6	7409.5	3294.2	2050.4	2011.7	2148.8	1990.7	1810.0	1614.8	1593.9
9609.9	45°	9113.1	7743.4	3037.7	1948.8	1985.9	2098.8	1910.0	1618.1	1479.3	1564.8
10514.9	47.5°	9724.5	8049.9	2882.8	1872.9	1973.0	2042.3	1839.1	1511.6	1413.2	1537.4
11484.5	50°	10405.2	8324.2	2813.4	1818.1	1958.4	2019.7	1732.6	1484.2	1343.8	1426.1
12487.9	52.5°	11081.2	8537.1	2761.8	1763.2	1937.5	2002.0	1681.0	1451.9	1259.9	1264.8
13497.8	55°	11755.5	8675.9	2705.4	1690.6	1890.7	1963.3	1676.1	1416.4	1197.0	1174.4
14565.7	57.5°	12475.0	8754.9	2636.0	1610.0	1810.0	1864.9	1671.3	1389.0	1177.6	1140.5
15657.9	60°	13207.4	8871.1	2545.7	1511.6	1701.9	1747.1	1660.0	1379.3	1166.4	1103.4
16687.1	62.5°	13864.0	8911.4	2437.6	1418.0	1563.2	1631.0	1635.8	1371.2	1135.7	1027.6
17542.1	65°	14294.7	8737.2	2248.8	1311.5	1413.2	1511.6	1589.0	1343.8	1080.9	972.8
17964.8	67.5°	14277.0	8240.3	1953.6	1174.4	1268.0	1379.3	1521.3	1297.0	1014.7	905.0
17645.3	70°	13612.3	7259.5	1579.3	1014.7	1108.3	1237.3	1434.1	1227.7	935.7	830.8
15690.1	72.5°	11674.8	5681.7	1147.0	827.6	922.8	1090.5	1321.2	1143.8	855.0	764.7
11595.8	75°	8340.3	3595.9	777.6	635.6	717.9	924.4	1180.9	1045.4	780.8	767.9
5807.6	77.5°	4260.5	1718.1	514.6	464.6	500.1	729.2	992.1	934.1	792.1	634.0
1651.9	80°	1385.8	634.0	324.3	316.2	332.3	485.6	767.9	766.3	600.1	430.7
400.1	82.5°	442.0	272.6	211.3	203.3	195.2	304.9	535.6	606.6	404.9	272.6
143.6	85°	175.8	162.9	124.2	114.5	82.3	143.6	280.7	403.3	301.7	196.8
37.1	87.5°	64.5	64.5	33.9	24.2	17.7	48.4	75.8	121.0	172.6	101.6
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>
4394.4
4734.8
4897.7
4865.5
4620.2
4221.8
3820.1
3520.0
3344.2
3274.8
3234.5
3194.2
3063.5
2765.1
2402.1
2064.9
1797.1
1614.8
1610.0
1595.5
1487.4
1298.6
1190.6
1145.4
1108.3
1027.6
972.8
909.9
840.5
759.8
724.3
564.6
380.7
271.0
201.7
100.0
0.0

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