

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: P952576

Luminaire Tested: **GALN-SB6B-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952576
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-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33531 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

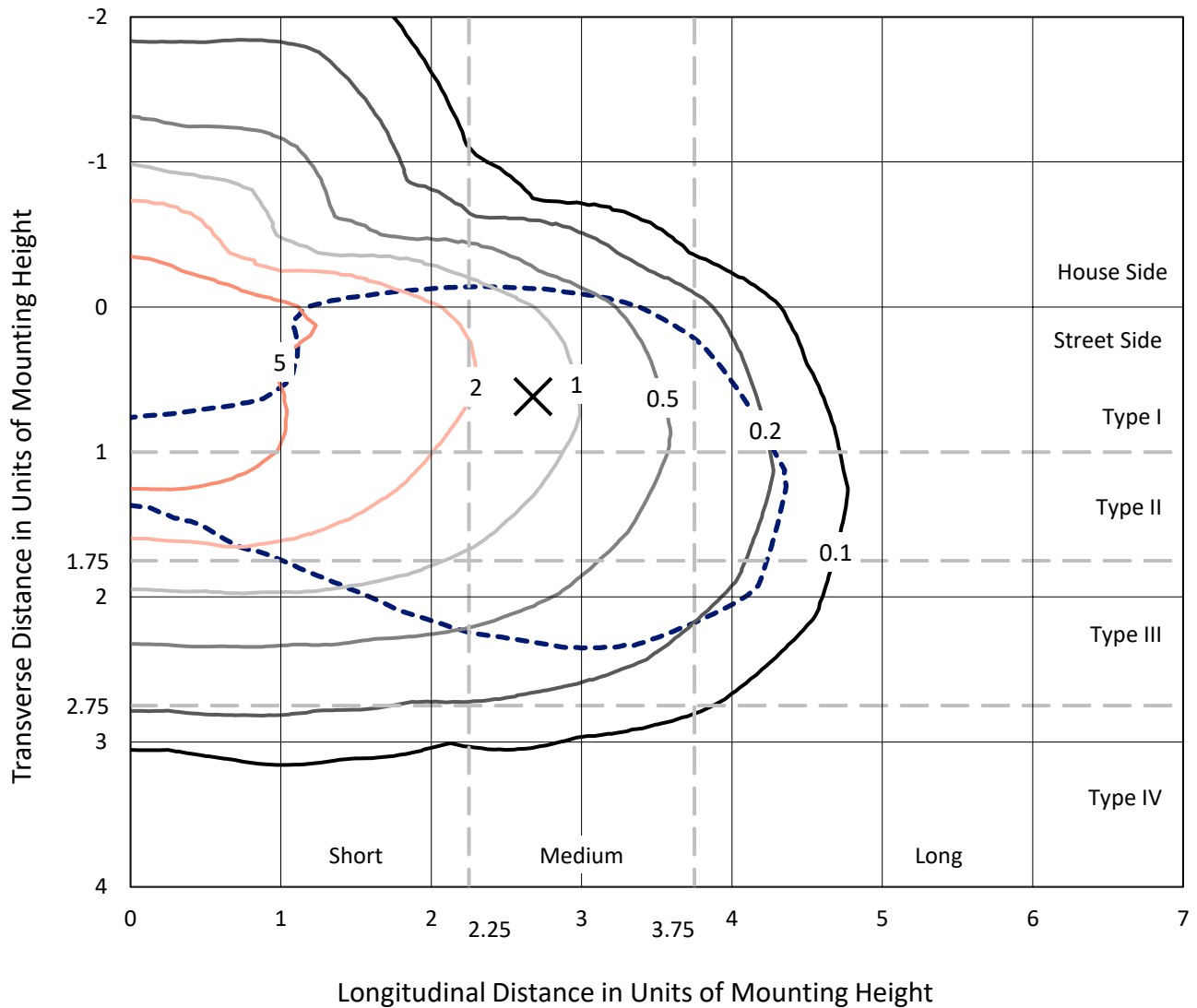
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

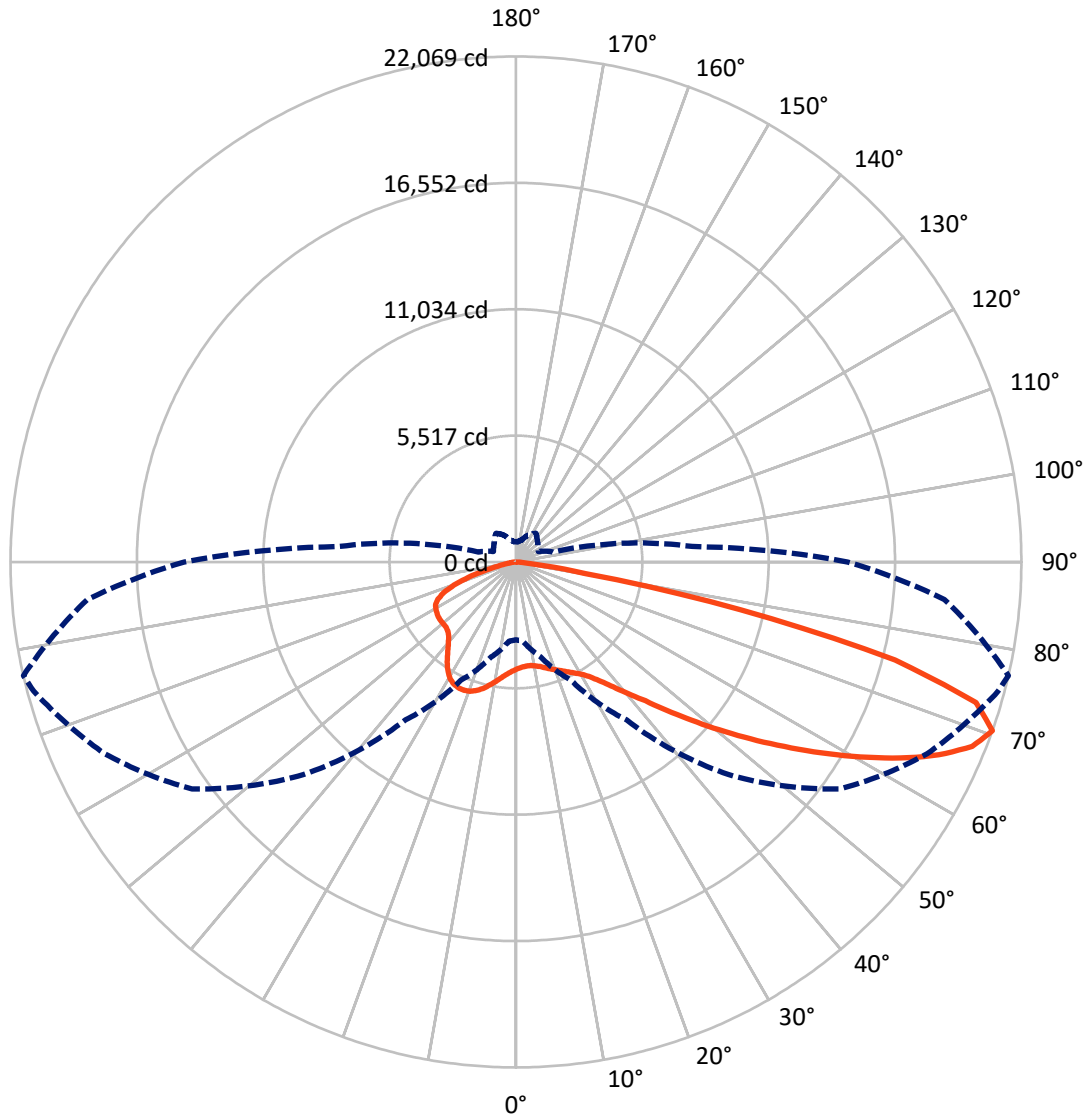
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	7342.8	0.0	7342.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26188.2	0.0	26188.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	33531.0	0.0	33531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.3
10°-20°	1287.6	3.8
20°-30°	2202.0	6.6
30°-40°	3541.0	10.6
40°-50°	5528.5	16.5
50°-60°	7384.8	22.0
60°-70°	7871.0	23.5
70°-80°	4845.4	14.5
80°-90°	424.6	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°	33531.0	100.0
0°-180°	33531.0	100.0

Coefficient of Utilization



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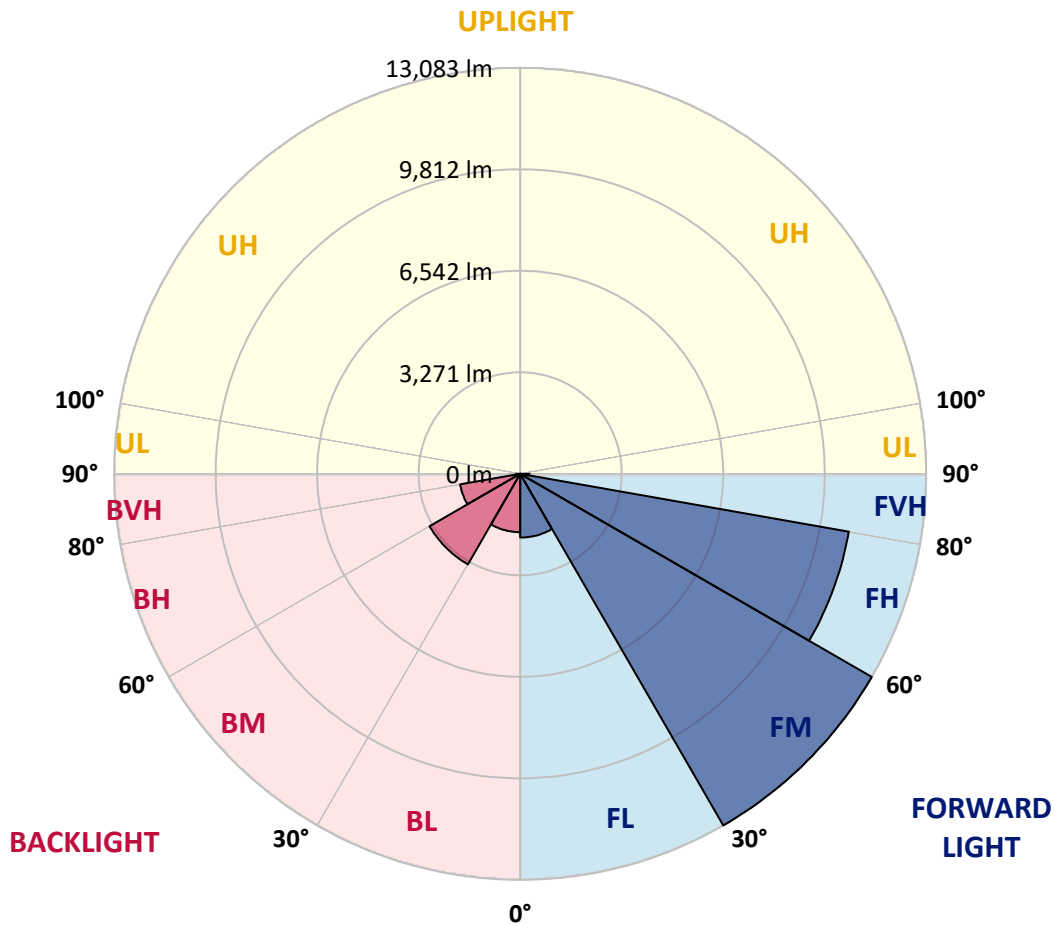
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2054.3	6.1			
FM (30°-60°)	13083.1	39.0			
FH (60°-80°)	10754.0	32.1			G4/12000
FVH (80°-90°)	296.9	0.9			G3/500
BL (0°-30°)	1881.4	5.6	B3/2500		
BM (30°-60°)	3371.2	10.1	B3/5000		
BH (60°-80°)	1962.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	127.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9
2.5°	4312.1	4310.4	4332.7	4339.6	4380.8	4410.0	4464.9	4523.3	4598.9	4607.5
5°	4063.1	4063.1	4088.9	4116.3	4169.6	4228.0	4312.1	4413.4	4543.9	4564.5
7.5°	3851.9	3865.6	3887.9	3941.2	4003.0	4087.1	4215.9	4360.2	4531.9	4564.5
10°	3681.9	3697.3	3724.8	3767.7	3860.5	3977.2	4145.5	4331.0	4561.1	4612.6
12.5°	3628.6	3644.1	3659.5	3692.2	3778.0	3915.4	4116.3	4344.7	4631.5	4683.0
15°	3752.3	3771.2	3759.1	3750.5	3795.2	3920.6	4130.1	4394.5	4719.1	4792.9
17.5°	4037.3	4044.2	4016.7	3936.0	3929.1	3996.1	4195.3	4463.2	4829.0	4909.7
20°	4497.6	4485.5	4428.9	4269.2	4178.2	4164.4	4306.9	4566.3	4942.3	5028.2
22.5°	5122.7	5108.9	4995.6	4743.1	4540.5	4406.5	4468.4	4700.2	5069.4	5165.6
25°	5902.3	5883.4	5716.8	5373.4	5059.1	4727.7	4688.2	4877.1	5225.7	5315.0
27.5°	6812.5	6797.0	6616.7	6163.3	5710.0	5167.3	4961.2	5084.9	5388.8	5490.2
30°	7791.3	7836.0	7516.6	7028.8	6455.3	5740.9	5328.7	5340.8	5600.1	5691.1
32.5°	8941.9	9019.2	8634.5	8016.3	7233.2	6364.3	5792.4	5697.9	5907.5	5983.0
35°	10082.2	10169.8	9850.3	9166.9	8265.3	7099.3	6276.7	6108.4	6316.2	6398.6
37.5°	11067.9	11184.7	11019.8	10425.6	9369.5	7985.4	6908.6	6590.9	6819.3	6922.4
40°	11845.8	12024.4	12012.4	11641.5	10671.2	9060.4	7710.6	7186.8	7444.4	7556.0
42.5°	12477.8	12632.3	12766.3	12747.4	12029.6	10281.4	8653.4	7961.3	8157.1	8285.9
45°	12914.0	13078.8	13367.3	13678.2	13336.4	11588.2	9733.6	8880.1	9058.7	9252.7
47.5°	13303.8	13491.0	13865.3	14358.2	14445.8	12900.2	10916.8	9949.9	10113.1	10314.0
50°	13338.1	13499.6	14080.0	14778.9	15234.0	14160.7	12187.6	11150.3	11303.2	11517.8
52.5°	12508.7	12762.9	13776.0	14766.9	15596.4	15215.1	13449.8	12398.8	12570.5	12828.1
55°	9709.5	10082.2	12884.8	14306.7	15467.6	15896.9	14650.1	13726.2	13946.1	14215.7
57.5°	8363.2	8526.3	10228.1	13468.7	14880.3	16073.8	15663.3	15067.4	15421.2	15716.6
60°	7516.6	7652.2	8658.5	12165.2	14107.5	15793.9	16446.4	16317.6	16929.0	17281.0
62.5°	6609.8	6738.6	7653.9	10157.7	13118.3	15328.5	16941.0	17471.6	18474.5	18859.2
65°	5710.0	5819.9	6697.4	8534.9	11861.3	14863.1	17196.9	18469.4	19905.0	20303.4
67.5°	4707.1	4798.1	5627.5	7200.6	10332.9	14226.0	17324.0	19254.2	21150.1	21491.8
70°	3396.8	3467.2	4324.1	5694.5	8414.7	13130.4	17272.4	19810.6	21795.8	22068.8
72.5°	1605.7	1669.2	2675.5	3697.3	5943.5	10997.5	16230.0	19369.2	21139.8	21004.1
75°	856.9	911.9	1537.0	2028.1	3139.2	7538.9	13281.5	16685.1	17751.6	17092.1
77.5°	580.4	623.4	951.4	1217.6	1433.9	3578.8	8536.6	11552.2	11114.3	10025.5
80°	460.2	504.9	779.6	824.3	693.8	1293.1	3527.3	5347.6	3841.6	3072.2
82.5°	353.8	403.6	656.0	597.6	377.8	530.6	1026.9	1691.5	984.0	748.7
85°	216.4	269.6	515.2	381.2	212.9	242.1	348.6	470.5	300.5	250.7
87.5°	109.9	154.6	261.0	139.1	96.2	56.7	92.7	92.7	79.0	68.7
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°
4677.9	0°	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9	4677.9
4653.8	2.5°	4695.1	4729.4	4787.8	4842.7	4885.7	4926.9	4968.1	4990.4	4997.3	5024.8
4679.6	5°	4750.0	4813.5	4926.9	5033.4	5100.3	5141.5	5170.7	5187.9	5191.3	5199.9
4750.0	7.5°	4851.3	4952.6	5110.6	5217.1	5266.9	5263.5	5251.5	5208.5	5191.3	5175.9
4853.0	10°	4993.9	5127.8	5321.9	5395.7	5364.8	5282.4	5175.9	5050.5	4992.1	4935.5
4993.9	12.5°	5170.7	5340.8	5531.4	5527.9	5375.1	5163.9	4916.6	4724.2	4602.3	4514.7
5167.3	15°	5385.4	5581.2	5727.1	5610.4	5275.5	4896.0	4533.6	4282.9	4173.0	4076.8
5342.5	17.5°	5606.9	5816.4	5883.4	5584.6	5024.8	4499.3	4088.9	3891.4	3783.2	3731.7
5531.4	20°	5823.3	6031.1	5976.1	5436.9	4643.5	4049.4	3683.6	3575.4	3553.1	3565.1
5715.1	22.5°	6051.7	6237.2	5995.0	5151.9	4157.5	3589.1	3388.2	3391.6	3441.4	3477.5
5907.5	25°	6285.3	6410.6	5945.2	4739.7	3635.5	3250.8	3201.0	3256.0	3353.9	3424.3
6123.8	27.5°	6510.2	6565.2	5837.0	4229.7	3187.3	3008.7	3017.3	3130.6	3278.3	3376.2
6386.6	30°	6764.4	6702.6	5629.3	3656.1	2876.4	2800.9	2873.0	3005.2	3152.9	3240.5
6718.0	32.5°	7051.2	6821.1	5299.5	3125.5	2656.6	2634.3	2752.8	2838.7	2903.9	2929.7
7157.6	35°	7408.4	6987.6	4877.1	2752.8	2459.2	2512.4	2625.7	2582.8	2557.0	2543.3
7748.4	37.5°	7872.0	7212.6	4382.5	2510.7	2299.4	2424.8	2471.2	2337.2	2235.9	2186.1
8464.5	40°	8430.1	7542.3	3906.8	2323.5	2198.1	2349.2	2268.5	2107.1	1978.3	1907.9
9269.9	42.5°	9050.1	7887.5	3506.7	2182.7	2141.5	2287.4	2119.1	1926.8	1719.0	1696.7
10229.9	45°	9700.9	8243.0	3233.6	2074.5	2114.0	2234.2	2033.3	1722.4	1574.7	1665.8
11193.3	47.5°	10351.8	8569.2	3068.8	1993.8	2100.2	2174.1	1957.7	1609.1	1504.3	1636.6
12225.3	50°	11076.5	8861.2	2994.9	1935.4	2084.8	2150.0	1844.4	1579.9	1430.5	1518.1
13293.5	52.5°	11796.0	9087.9	2940.0	1877.0	2062.5	2131.1	1789.4	1545.6	1341.2	1346.4
14368.5	55°	12513.8	9235.6	2879.9	1799.7	2012.7	2089.9	1784.3	1507.8	1274.2	1250.2
15505.4	57.5°	13279.8	9319.7	2806.0	1713.8	1926.8	1985.2	1779.1	1478.6	1253.6	1214.1
16668.0	60°	14059.4	9443.3	2709.9	1609.1	1811.7	1859.8	1767.1	1468.3	1241.6	1174.6
17763.6	62.5°	14758.3	9486.3	2594.8	1509.5	1664.0	1736.2	1741.3	1459.7	1209.0	1093.9
18673.7	65°	15216.8	9300.8	2393.9	1396.2	1504.3	1609.1	1691.5	1430.5	1150.6	1035.5
19123.7	67.5°	15198.0	8771.9	2079.6	1250.2	1349.8	1468.3	1619.4	1380.7	1080.2	963.4
18783.6	70°	14490.4	7727.8	1681.2	1080.2	1179.8	1317.2	1526.7	1306.9	996.0	884.4
16702.3	72.5°	12428.0	6048.3	1221.0	881.0	982.3	1160.9	1406.5	1217.6	910.2	814.0
12343.8	75°	8878.4	3827.8	827.7	676.6	764.2	984.0	1257.1	1112.8	831.2	817.4
6182.2	77.5°	4535.3	1828.9	547.8	494.6	532.4	776.2	1056.1	994.3	843.2	674.9
1758.5	80°	1475.1	674.9	345.2	336.6	353.8	516.9	817.4	815.7	638.8	458.5
425.9	82.5°	470.5	290.2	225.0	216.4	207.8	324.6	570.1	645.7	431.0	290.2
152.8	85°	187.2	173.4	132.2	121.9	87.6	152.8	298.8	429.3	321.1	209.5
39.5	87.5°	68.7	68.7	36.1	25.8	18.9	51.5	80.7	128.8	183.7	108.2
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>
4677.9
5040.2
5213.7
5179.3
4918.3
4494.1
4066.5
3747.1
3559.9
3486.1
3443.2
3400.2
3261.1
2943.4
2557.0
2198.1
1913.1
1719.0
1713.8
1698.4
1583.3
1382.4
1267.4
1219.3
1179.8
1093.9
1035.5
968.5
894.7
808.8
771.1
601.0
405.3
288.5
214.7
106.5
0.0

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