

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: P951965

Luminaire Tested: **GALN-SB5D-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951965  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

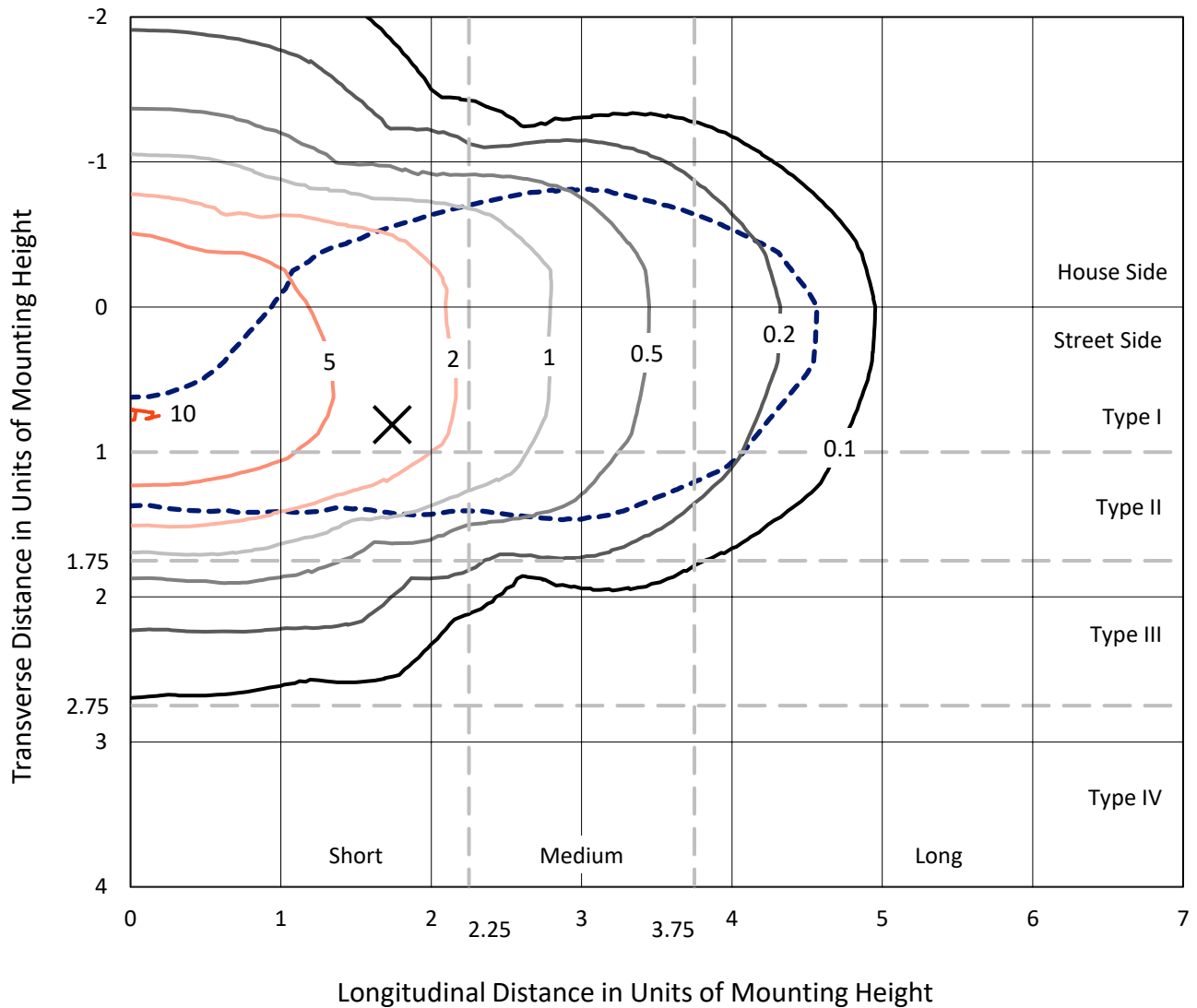
Lumens per Lamp: N/A  
Luminaire Lumens: 36238 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

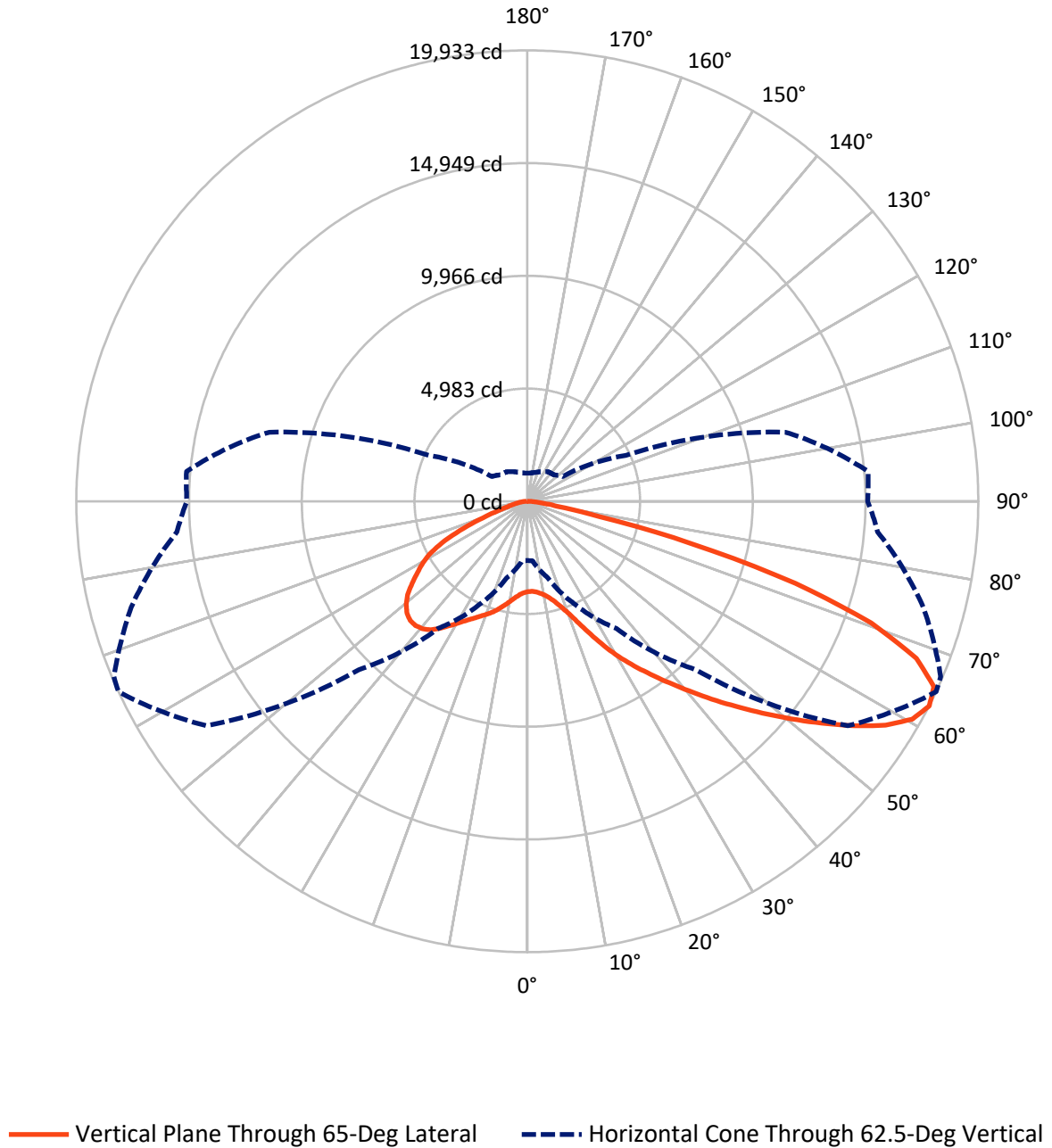
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11435.1	0.0	11435.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	24802.9	0.0	24802.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	36238.0	0.0	36238.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.1	1.1
10°-20°	1350.1	3.7
20°-30°	2737.4	7.6
30°-40°	4737.1	13.1
40°-50°	7168.6	19.8
50°-60°	8404.8	23.2
60°-70°	7046.4	19.4
70°-80°	3890.2	10.7
80°-90°	505.3	1.4
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°	36238.0	100.0
0°-180°	36238.0	100.0



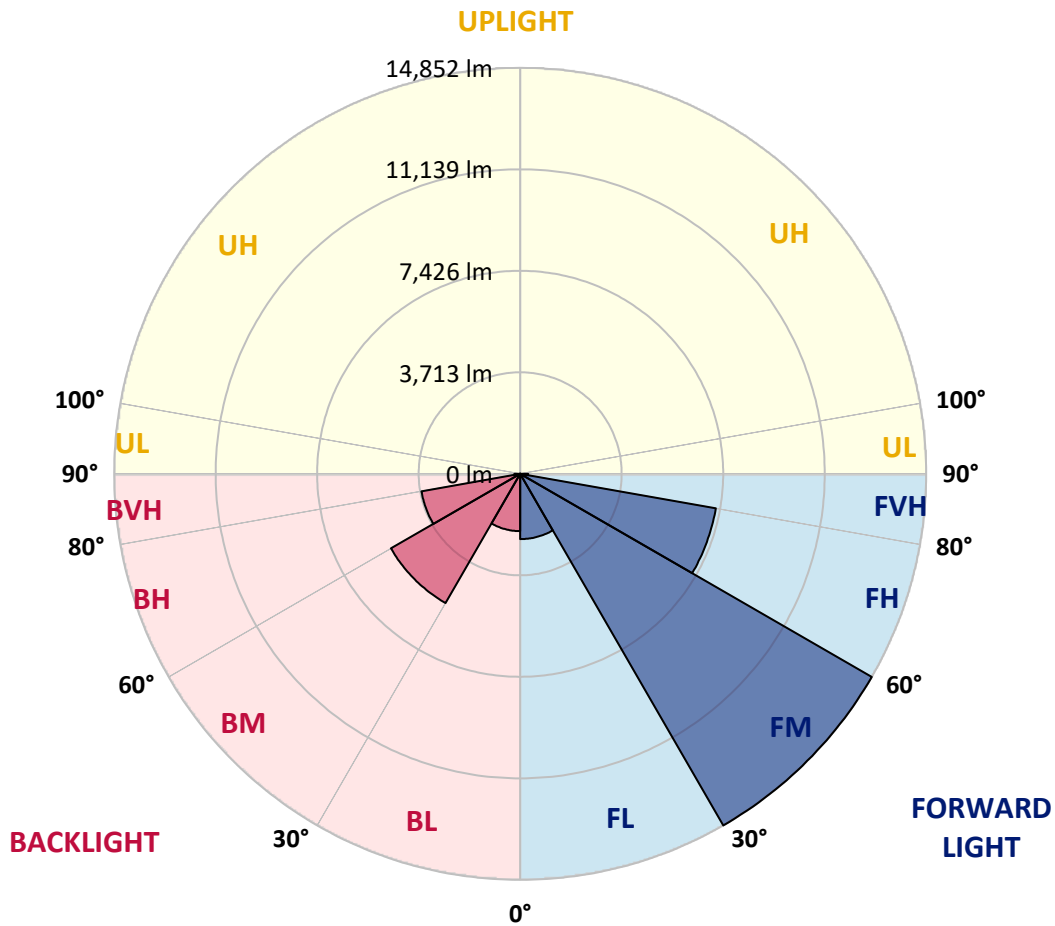
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2388.6	6.6			
FM (30°-60°)	14851.5	41.0			
FH (60°-80°)	7268.3	20.1			G3/7500
FVH (80°-90°)	294.5	0.8			G3/500
BL (0°-30°)	2097.1	5.8	B3/2500		
BM (30°-60°)	5459.0	15.1	B4/8500		
BH (60°-80°)	3668.3	10.1	B4/5000		G4/5000
BVH (80°-90°)	210.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3
2.5°	3966.9	3955.7	3965.1	3965.1	3968.8	3966.9	3980.1	3983.9	3989.5	4000.8
5°	3927.5	3925.6	3942.5	3957.5	3972.6	3985.8	4002.7	4027.1	4030.9	4044.0
7.5°	3914.3	3903.0	3929.3	3948.1	3983.9	4015.8	4061.0	4102.3	4119.2	4124.9
10°	4015.8	3997.0	4021.5	4032.8	4062.8	4094.8	4147.4	4213.2	4232.0	4254.6
12.5°	4188.8	4168.1	4203.8	4220.8	4249.0	4277.2	4312.9	4376.8	4386.2	4427.6
15°	4425.7	4401.2	4423.8	4444.5	4491.5	4517.8	4553.5	4615.6	4615.6	4647.5
17.5°	4747.2	4715.2	4732.1	4739.7	4769.7	4809.2	4869.4	4923.9	4952.1	4940.8
20°	5226.6	5187.1	5187.1	5149.5	5138.2	5170.2	5249.2	5324.4	5354.4	5296.2
22.5°	5946.7	5890.3	5858.3	5730.5	5679.7	5683.5	5762.4	5854.5	5879.0	5775.6
25°	6862.3	6773.9	6730.7	6542.6	6428.0	6328.3	6390.4	6508.8	6542.6	6414.8
27.5°	7777.9	7783.5	7742.1	7516.5	7326.6	7144.3	7112.3	7236.4	7272.1	7127.3
30°	9061.9	8928.5	8849.5	8578.8	8308.0	8052.3	7920.7	7971.5	7980.9	7807.9
32.5°	10169.3	10135.5	9966.3	9729.4	9381.6	8981.1	8761.1	8680.3	8665.2	8419.0
35°	11430.8	11412.0	11233.4	10951.4	10575.4	10018.9	9622.2	9391.0	9372.2	9026.2
37.5°	12713.0	12713.0	12538.2	12229.9	11840.7	11145.1	10541.6	10174.9	10114.8	9663.6
40°	13735.8	13673.8	13705.7	13576.0	13130.4	12391.5	11562.4	11030.4	10949.5	10408.1
42.5°	14316.7	14296.1	14487.8	14632.6	14450.2	13859.9	12686.7	11957.3	11844.4	11227.8
45°	14446.5	14423.9	14766.1	15296.3	15551.9	15309.4	13908.8	12933.0	12795.8	12085.1
47.5°	14147.5	14102.4	14604.4	15441.0	16260.7	16687.5	15232.3	13991.5	13792.2	12919.8
50°	13248.9	13205.6	13965.2	15076.3	16499.5	17623.8	16668.7	15113.9	14809.3	13814.8
52.5°	11295.5	11316.1	12506.2	14032.8	16185.5	18206.6	17905.8	16296.5	15929.8	14730.4
55°	8798.7	8843.9	10306.5	11987.3	14929.6	18118.2	18749.9	17514.7	17150.0	15591.4
57.5°	6300.1	6499.4	7870.0	9533.8	12517.5	16717.6	18934.2	18672.9	18319.4	16531.5
60°	4083.5	4119.2	5529.3	7206.3	9532.0	14228.4	18560.1	19550.9	19274.5	17490.3
62.5°	2617.1	2641.5	3500.7	5040.5	6860.4	10526.5	17300.4	19932.5	19847.9	18123.9
65°	1923.3	1904.5	2352.0	3331.5	4621.2	6491.9	14854.4	19748.3	19915.6	18520.6
67.5°	1605.6	1579.3	1799.2	2306.8	3404.8	3686.8	10990.9	18550.7	19163.6	18475.5
70°	1462.7	1440.1	1573.6	1712.7	2656.5	2468.5	5540.6	16127.2	17071.0	17962.2
72.5°	1239.0	1199.5	1381.9	1521.0	2066.2	1893.2	2289.9	12387.8	13538.4	16317.1
75°	960.7	934.4	1090.4	1338.6	1552.9	1477.7	1447.7	7522.2	8778.1	12619.0
77.5°	761.4	725.7	868.6	1043.4	1396.9	1114.9	1054.7	3239.4	4484.0	8056.1
80°	573.4	541.5	659.9	825.4	1073.5	840.4	682.5	1321.7	1690.2	4081.6
82.5°	408.0	379.8	460.6	605.4	721.9	753.9	419.3	740.7	832.9	1573.6
85°	261.3	244.4	308.3	379.8	458.7	485.1	255.7	387.3	424.9	648.6
87.5°	142.9	116.6	165.4	176.7	212.4	193.6	122.2	141.0	152.3	235.0
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°
3993.3	0°	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3	3993.3
4000.8	2.5°	4008.3	4014.0	4032.8	4038.4	4051.6	4068.5	4079.8	4091.0	4091.0	4102.3
4061.0	5°	4062.8	4076.0	4115.5	4136.2	4170.0	4203.8	4224.5	4249.0	4264.0	4271.5
4156.8	7.5°	4168.1	4188.8	4245.2	4280.9	4339.2	4386.2	4418.2	4452.0	4459.5	4480.2
4290.3	10°	4311.0	4335.4	4399.4	4467.0	4536.6	4594.9	4625.0	4649.4	4658.8	4662.6
4461.4	12.5°	4474.6	4510.3	4593.0	4675.7	4749.1	4799.8	4807.3	4801.7	4775.4	4752.8
4672.0	15°	4675.7	4707.7	4799.8	4890.1	4961.5	4970.9	4923.9	4893.8	4861.9	4856.2
4907.0	17.5°	4916.4	4933.3	5017.9	5106.3	5111.9	5080.0	5010.4	4982.2	4952.1	4931.4
5213.4	20°	5196.5	5190.9	5251.0	5288.6	5249.2	5151.4	5046.1	4999.1	4969.0	4944.6
5589.5	22.5°	5531.2	5487.9	5480.4	5471.0	5365.7	5160.8	5017.9	4957.7	4910.7	4876.9
6114.0	25°	6018.1	5852.7	5738.0	5674.1	5437.2	5110.0	4927.7	4794.2	4705.8	4647.5
6755.1	27.5°	6627.2	6349.0	6059.5	5903.4	5437.2	5006.6	4709.6	4493.4	4348.6	4288.4
7375.5	30°	7208.2	6916.8	6490.0	6179.8	5424.0	4837.4	4358.0	4057.2	3888.0	3827.8
7905.7	32.5°	7704.5	7386.8	6946.9	6482.5	5392.0	4562.9	3921.8	3589.1	3425.5	3354.0
8430.2	35°	8165.1	7826.7	7405.6	6815.3	5307.4	4160.6	3442.4	3188.6	3006.2	2891.5
8964.2	37.5°	8637.0	8234.7	7839.9	7116.1	5155.2	3690.6	3073.9	2857.7	2643.4	2489.2
9532.0	40°	9150.3	8669.0	8304.3	7294.7	4905.1	3243.1	2788.1	2590.7	2363.2	2199.7
10186.2	42.5°	9750.0	9189.8	8821.3	7386.8	4562.9	2925.4	2602.0	2408.4	2194.0	2060.6
10887.5	45°	10376.1	9763.2	9293.2	7384.9	4181.3	2776.9	2541.9	2350.1	2113.2	1974.1
11607.6	47.5°	11032.3	10363.0	9701.2	7264.6	3850.4	2797.5	2508.0	2224.1	1962.8	1827.4
12335.1	50°	11690.3	11019.1	10096.0	7039.0	3709.4	2752.4	2382.0	2047.4	1739.1	1616.9
13017.6	52.5°	12342.7	11716.6	10436.3	6717.5	3566.5	2585.1	2220.4	1818.0	1646.9	1562.3
13722.6	55°	12998.8	12406.6	10806.6	6249.4	3209.3	2389.6	1949.6	1731.5	1573.6	1496.5
14412.6	57.5°	13656.8	13203.7	11158.2	5781.2	2759.9	2148.9	1801.1	1626.3	1500.3	1434.5
14989.8	60°	14341.2	14115.6	11521.1	5350.7	2316.2	1840.6	1692.1	1541.7	1413.8	1340.5
15544.4	62.5°	15046.2	15119.5	11805.0	4796.1	1908.3	1652.6	1594.3	1440.1	1316.0	1246.5
16003.2	65°	15756.9	16087.8	11991.1	4027.1	1547.3	1474.0	1489.0	1329.2	1203.2	1143.1
16339.7	67.5°	16292.7	16785.3	11938.4	3047.6	1269.0	1304.8	1357.4	1212.6	1094.2	1047.2
16285.2	70°	16352.9	16702.5	11419.6	2086.9	1062.2	1139.3	1210.8	1098.0	975.8	941.9
15518.1	72.5°	15551.9	15574.5	9973.8	1363.1	898.7	1000.2	1056.6	981.4	863.0	829.1
13576.0	75°	13451.9	12880.4	7322.9	898.7	752.0	859.2	911.8	859.2	744.5	752.0
10158.0	77.5°	10191.9	9122.1	4446.4	639.2	627.9	721.9	793.4	755.8	658.0	738.9
5108.2	80°	5251.0	4935.2	1983.5	477.5	496.3	577.2	652.4	603.5	520.8	496.3
1141.2	82.5°	1203.2	1398.8	782.1	342.2	359.1	415.5	498.2	453.1	374.1	315.9
475.7	85°	421.1	460.6	345.9	214.3	210.6	259.4	338.4	302.7	253.8	203.0
201.2	87.5°	133.5	174.8	129.7	86.5	90.2	116.6	156.0	142.9	118.4	77.1
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>
3993.3
4102.3
4275.3
4472.7
4653.2
4752.8
4856.2
4933.3
4946.5
4888.2
4670.1
4318.5
3863.5
3389.8
2929.2
2530.6
2231.6
2086.9
1996.6
1846.2
1624.4
1562.3
1489.0
1423.2
1334.9
1244.6
1141.2
1049.1
943.8
827.2
725.7
650.5
453.1
312.1
214.3
80.8
0.0

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