

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: STREETWORKS

Report Number: P848358

Luminaire Tested: **GLAN-SB4D-850-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35042 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

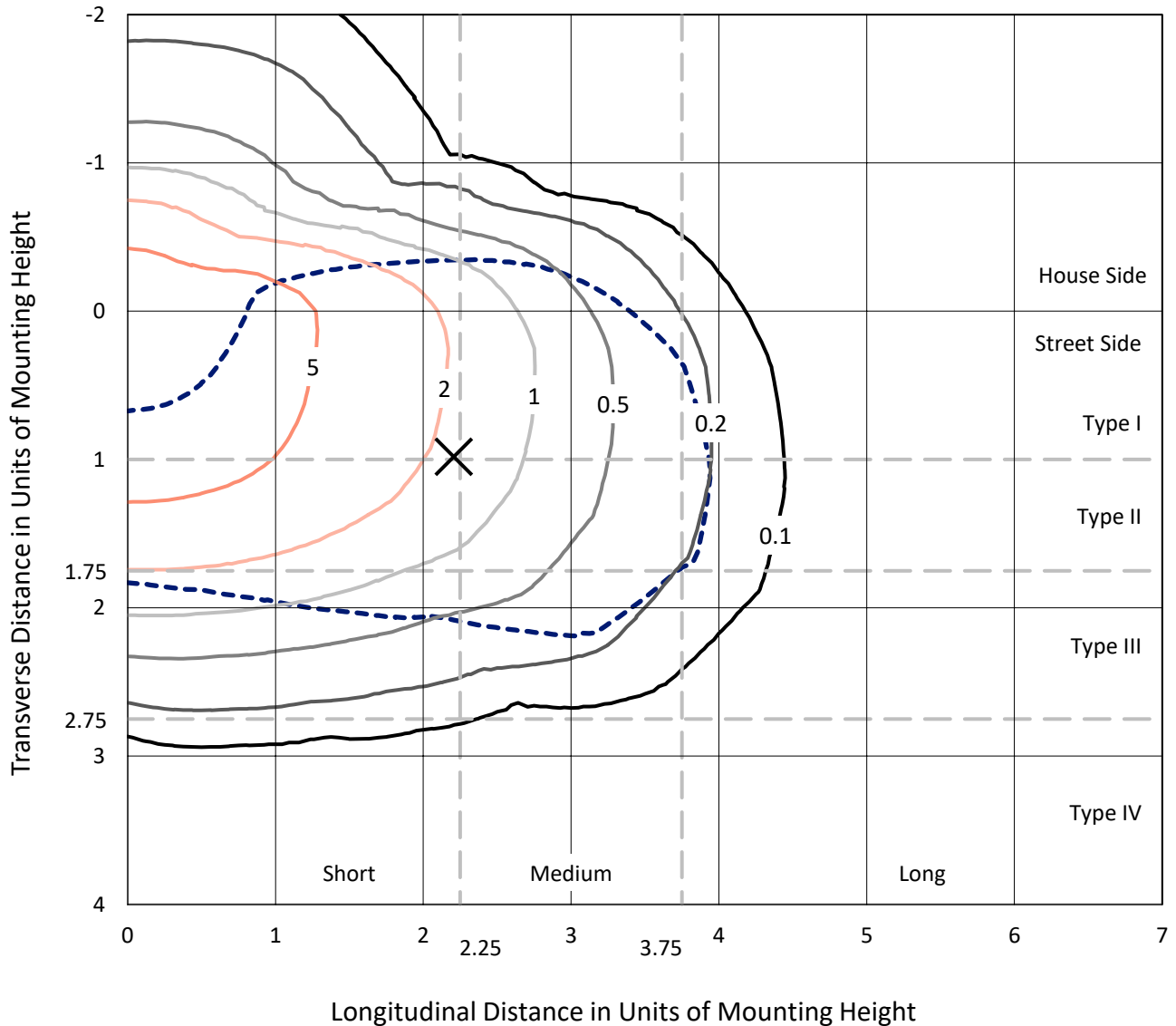
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

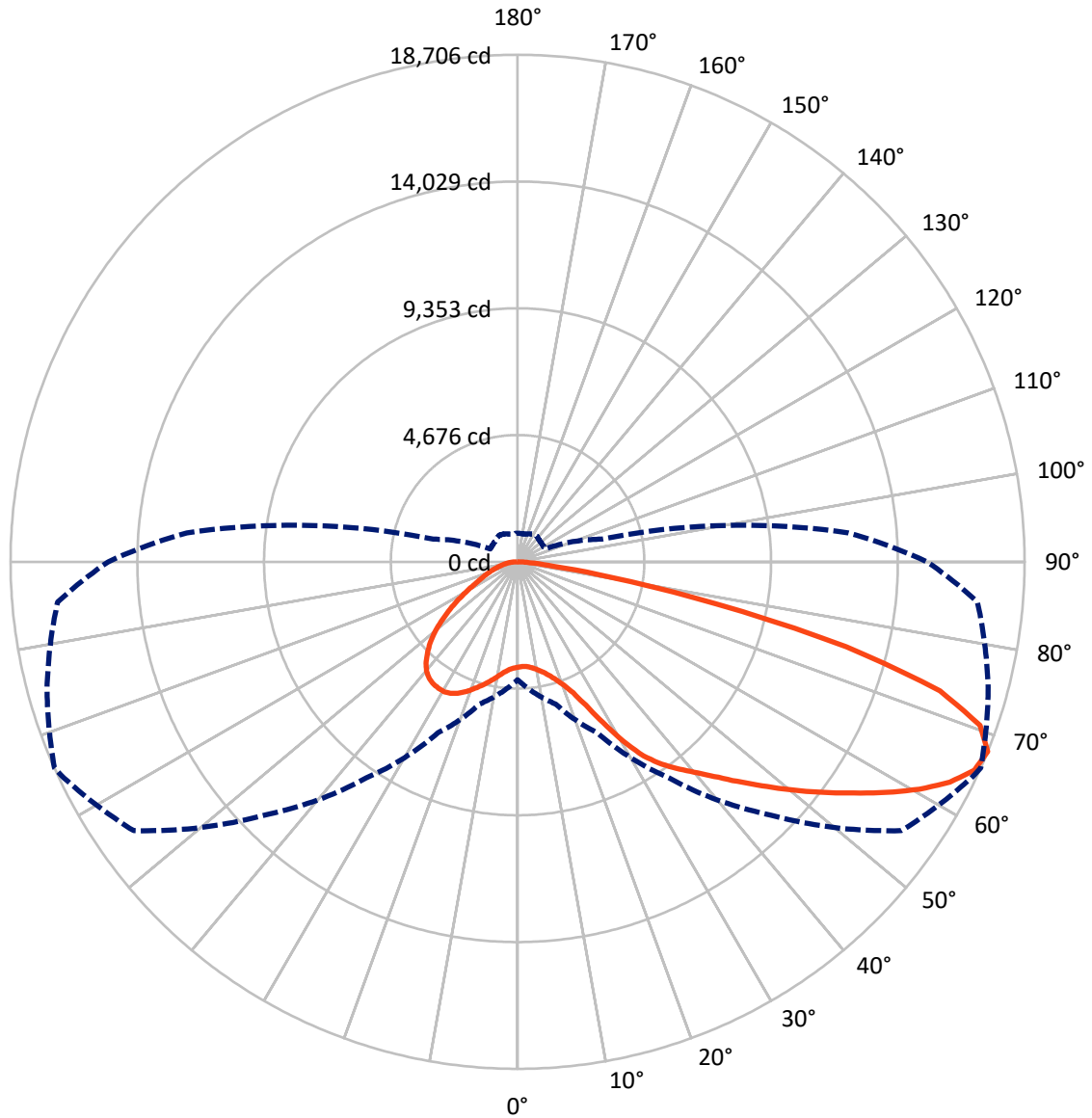
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8713.1	0.0	8713.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26328.9	0.0	26328.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	35042.0	0.0	35042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.3	1.1
10°-20°	1273.1	3.6
20°-30°	2453.9	7.0
30°-40°	4302.5	12.3
40°-50°	6396.5	18.3
50°-60°	8108.2	23.1
60°-70°	7933.6	22.6
70°-80°	3784.4	10.8
80°-90°	404.4	1.2
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°	35042.0	100.0
0°-180°	35042.0	100.0

Coefficient of Utilization

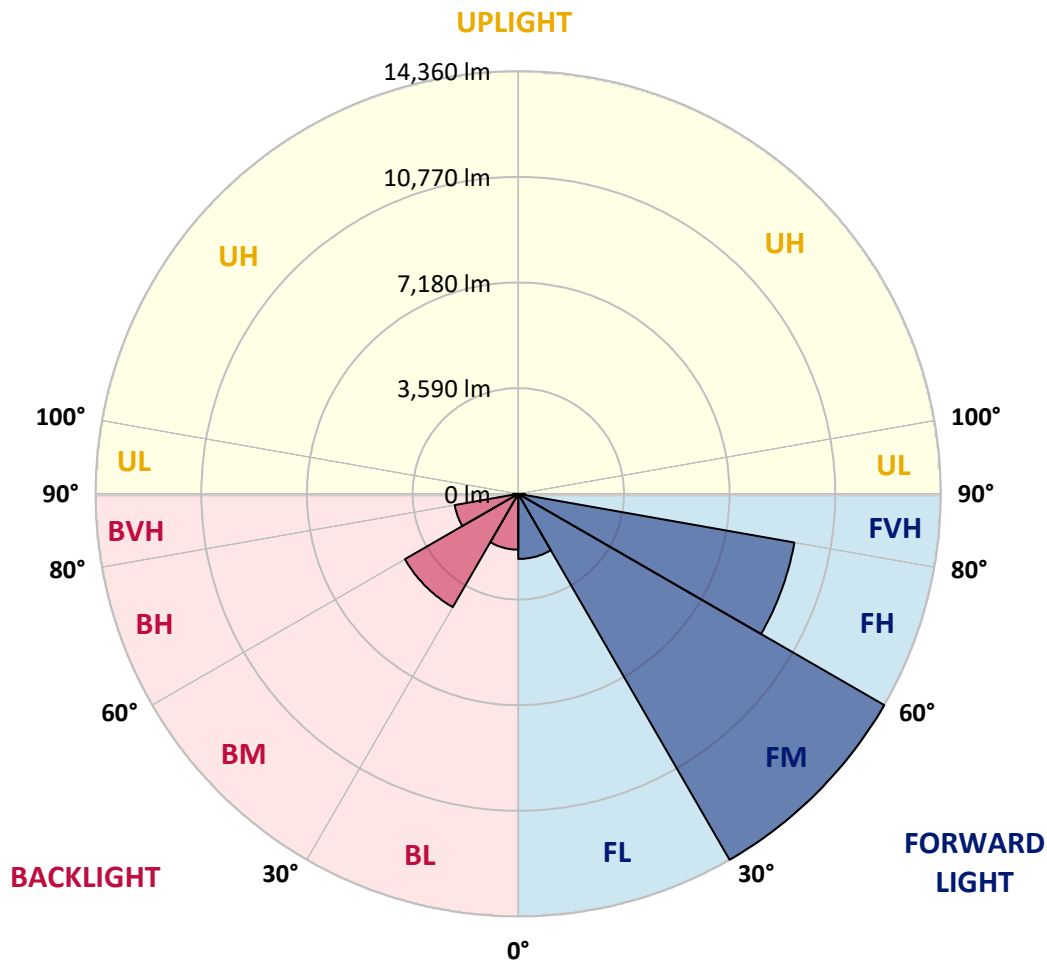


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2214.3	6.3			
FM (30°-60°)	14359.9	41.0			
FH (60°-80°)	9525.4	27.2			G4/12000
FVH (80°-90°)	229.3	0.7			G3/500
BL (0°-30°)	1898.0	5.4	B3/2500		
BM (30°-60°)	4447.3	12.7	B3/5000		
BH (60°-80°)	2192.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	175.1	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6
2.5°	3846.1	3868.2	3862.7	3853.5	3851.6	3855.3	3860.8	3866.4	3864.5	3873.7
5°	3835.1	3857.2	3855.3	3855.3	3862.7	3877.4	3886.6	3895.8	3886.6	3897.7
7.5°	3842.4	3859.0	3866.4	3873.7	3892.1	3919.8	3941.9	3962.1	3951.1	3963.9
10°	3936.3	3949.2	3956.6	3956.6	3969.5	4000.8	4022.9	4059.7	4050.5	4070.7
12.5°	4107.6	4120.4	4120.4	4113.1	4122.3	4142.5	4149.9	4190.4	4173.8	4207.0
15°	4317.4	4343.2	4323.0	4310.1	4313.8	4334.0	4332.2	4363.5	4346.9	4374.5
17.5°	4549.4	4582.6	4549.4	4547.6	4540.2	4562.3	4564.2	4591.8	4562.3	4582.6
20°	4823.8	4869.8	4842.2	4851.4	4834.8	4844.0	4853.2	4893.7	4847.7	4862.4
22.5°	5210.4	5265.6	5236.2	5271.1	5260.1	5252.7	5250.9	5322.7	5250.9	5256.4
25°	5773.8	5840.1	5788.5	5836.4	5836.4	5860.3	5887.9	5980.0	5860.3	5825.3
27.5°	6606.0	6672.2	6571.0	6600.4	6591.2	6650.2	6620.7	6849.0	6720.1	6663.0
30°	7607.5	7725.4	7533.9	7526.5	7517.3	7611.2	7653.6	7804.5	7673.8	7616.7
32.5°	8690.1	8813.5	8585.2	8518.9	8483.9	8541.0	8506.0	8627.5	8537.3	8448.9
35°	9835.3	9956.8	9739.6	9610.7	9470.8	9351.1	9225.9	9257.2	9172.5	9038.1
37.5°	10917.9	11140.7	10910.5	10772.4	10514.7	10280.9	9931.0	9785.6	9706.4	9583.1
40°	12020.7	12147.8	11972.9	11855.0	11575.2	11208.8	10649.1	10341.6	10234.8	10115.2
42.5°	12832.7	12954.2	12860.3	12779.3	12560.2	12134.9	11411.3	11026.5	10871.9	10737.5
45°	13477.1	13567.3	13508.4	13537.8	13443.9	13031.5	12201.2	11761.1	11600.9	11437.1
47.5°	13736.7	13832.4	13926.3	14101.2	14261.4	13957.6	13049.9	12556.5	12387.1	12219.6
50°	13707.2	13804.8	14077.3	14449.2	14946.3	14845.0	13944.7	13403.4	13246.9	13055.4
52.5°	13471.5	13582.0	13931.8	14550.4	15342.1	15509.7	14856.1	14277.9	14130.7	13902.4
55°	12852.9	12919.2	13443.9	14320.3	15436.0	15973.6	15749.0	15209.6	15062.3	14743.8
57.5°	11705.9	11801.6	12565.7	13699.8	15200.4	16288.5	16533.3	16189.0	16047.3	15588.8
60°	10209.1	10361.9	11236.4	12657.8	14600.1	16286.6	17245.8	17151.9	17034.1	16421.0
62.5°	8515.2	8692.0	9533.4	11184.9	13550.7	15824.5	17691.4	17958.4	17897.6	17188.8
65°	6539.7	6661.2	7498.9	9279.3	11917.6	14832.1	17742.9	18508.9	18519.9	17772.4
67.5°	4354.3	4704.1	5431.3	6963.1	9730.4	13210.1	17290.0	18599.1	18705.9	17973.1
70°	2124.7	2584.9	3297.5	4525.5	6963.1	10722.7	16106.2	17858.9	18096.4	17387.6
72.5°	881.9	1031.0	1419.5	2233.3	3997.1	7235.6	13727.4	15852.1	16292.1	15406.6
75°	594.7	644.4	811.9	1145.2	1820.9	3568.1	9899.7	11820.0	12528.9	11635.9
77.5°	458.4	489.7	591.0	800.9	1082.6	1349.5	5298.8	7123.3	7489.7	6933.7
80°	360.9	384.8	441.9	583.6	767.8	721.7	1806.1	3227.5	3439.2	2885.0
82.5°	313.0	322.2	316.7	395.8	510.0	421.6	592.8	1191.2	1314.6	953.7
85°	226.5	252.2	263.3	244.9	270.6	213.6	243.0	421.6	464.0	414.3
87.5°	92.1	136.2	167.5	158.3	99.4	60.8	75.5	123.4	141.8	154.7
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°
3886.6	0°	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6	3886.6
3888.5	2.5°	3890.3	3903.2	3912.4	3923.4	3930.8	3941.9	3963.9	3976.8	3978.7	3987.9
3917.9	5°	3925.3	3943.7	3963.9	3993.4	4026.5	4054.2	4096.5	4126.0	4137.0	4146.2
3989.7	7.5°	4000.8	4026.5	4063.4	4114.9	4162.8	4199.6	4251.2	4286.1	4321.1	4334.0
4103.9	10°	4113.1	4149.9	4203.3	4273.3	4324.8	4372.7	4426.1	4455.5	4490.5	4505.2
4240.1	12.5°	4253.0	4291.7	4361.6	4459.2	4507.1	4540.2	4558.6	4551.3	4558.6	4571.5
4404.0	15°	4413.2	4455.5	4534.7	4639.6	4672.8	4643.3	4602.8	4566.0	4560.5	4564.2
4602.8	17.5°	4602.8	4634.1	4726.2	4814.5	4790.6	4669.1	4580.7	4521.8	4492.4	4483.1
4856.9	20°	4867.9	4867.9	4943.4	4998.7	4838.5	4632.3	4494.2	4398.5	4337.7	4311.9
5203.0	22.5°	5190.1	5160.7	5208.6	5169.9	4829.3	4529.2	4337.7	4172.0	4079.9	4043.1
5687.2	25°	5598.9	5563.9	5551.0	5311.7	4763.0	4365.3	4054.2	3853.5	3772.5	3752.2
6385.0	27.5°	6215.6	6127.3	5959.7	5389.0	4641.5	4107.6	3722.8	3536.8	3490.8	3492.6
7281.7	30°	7036.8	6860.0	6449.5	5401.9	4442.6	3743.0	3384.0	3251.4	3229.3	3238.5
8034.7	32.5°	7797.2	7629.6	6950.3	5343.0	4137.0	3385.8	3080.2	2991.8	2958.7	2969.7
8609.1	35°	8393.7	8347.7	7414.2	5260.1	3761.4	3050.7	2807.7	2732.2	2667.8	2653.1
9150.4	37.5°	8957.1	8938.7	7762.2	5144.1	3389.5	2813.2	2588.6	2489.2	2395.3	2343.8
9748.8	40°	9575.7	9557.3	7990.5	4965.5	3060.0	2607.0	2391.6	2260.9	2144.9	2051.0
10426.3	42.5°	10271.7	10163.0	8099.1	4709.6	2780.1	2432.1	2231.4	2054.7	1901.9	1815.4
11192.2	45°	11032.0	10787.2	8097.3	4383.7	2544.4	2272.0	2060.2	1809.8	1668.1	1587.1
11978.4	47.5°	11838.5	11383.7	7997.9	4022.9	2316.1	2095.2	1795.1	1603.6	1509.7	1460.0
12832.7	50°	12670.6	11941.6	7828.5	3608.6	2082.3	1894.5	1629.4	1498.7	1426.9	1380.8
13679.6	52.5°	13453.1	12447.9	7624.1	3139.1	1844.8	1699.4	1555.8	1454.5	1379.0	1327.5
14500.7	55°	14180.4	12884.2	7335.1	2658.6	1651.5	1568.6	1520.8	1436.1	1349.5	1288.8
15334.8	57.5°	14826.6	13167.7	6836.1	2207.5	1513.4	1478.4	1483.9	1404.8	1305.4	1253.8
16155.9	60°	15364.2	13375.8	6097.8	1789.6	1401.1	1390.1	1426.9	1345.9	1229.9	1171.0
16850.0	62.5°	15686.4	13372.1	5192.0	1465.5	1305.4	1309.0	1351.4	1272.2	1154.4	1099.2
17212.7	65°	15658.8	13044.4	4197.8	1253.8	1213.3	1217.0	1272.2	1191.2	1091.8	1058.6
17030.4	67.5°	15104.6	12245.3	3220.1	1115.7	1112.0	1128.6	1193.1	1136.0	1053.1	1049.4
15944.2	70°	13604.1	10586.5	2319.8	1005.3	1007.1	1031.0	1115.7	1101.0	1032.9	1040.2
13405.3	72.5°	10908.7	8071.5	1557.6	889.3	891.1	929.8	1042.1	1073.4	1012.6	1110.2
9511.3	75°	7265.1	5033.6	1001.6	765.9	767.8	817.5	977.6	1020.0	957.4	1106.5
4949.0	77.5°	3490.8	2262.7	725.4	644.4	644.4	690.4	845.1	913.2	815.6	859.8
1590.7	80°	1205.9	850.6	570.7	519.2	508.2	539.5	712.5	791.7	703.3	648.1
519.2	82.5°	475.0	441.9	458.4	403.2	366.4	386.6	554.2	653.6	517.4	467.6
292.7	85°	272.5	287.2	324.0	267.0	211.7	237.5	406.9	469.5	390.3	344.3
95.7	87.5°	73.6	101.3	149.1	138.1	95.7	101.3	193.3	259.6	224.6	173.1
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>
3886.6
3986.0
4144.4
4335.9
4512.6
4575.2
4577.0
4496.0
4306.4
4037.6
3755.9
3498.1
3269.8
2984.5
2664.1
2345.6
2060.2
1820.9
1583.4
1449.0
1364.3
1305.4
1264.9
1220.7
1145.2
1082.6
1056.8
1055.0
1038.4
1124.9
1115.7
788.0
607.6
465.8
351.7
178.6
0.0

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