

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: P848998

Luminaire Tested: **GLAN-SB5D-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848998
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-SB5D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41012 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

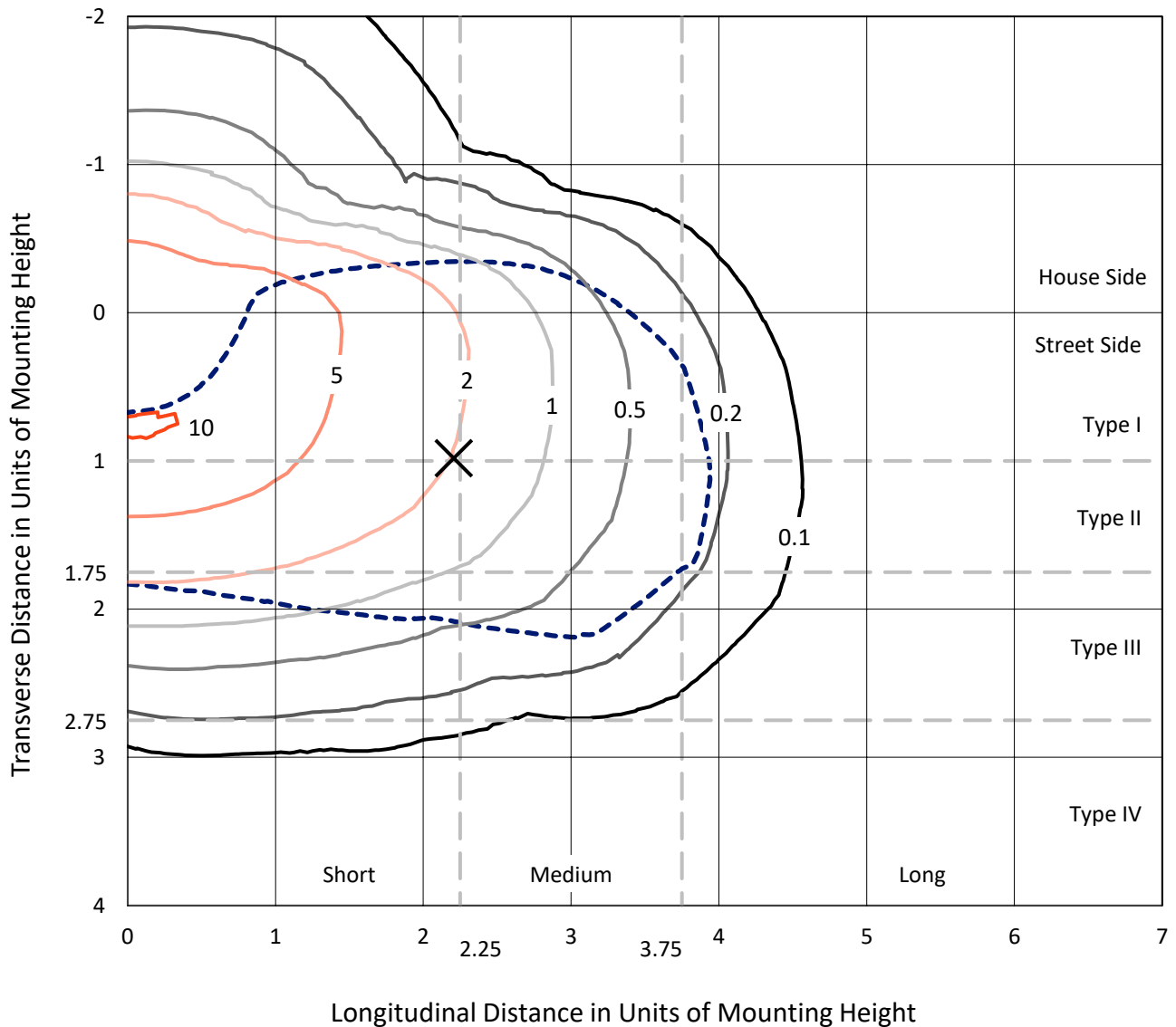
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

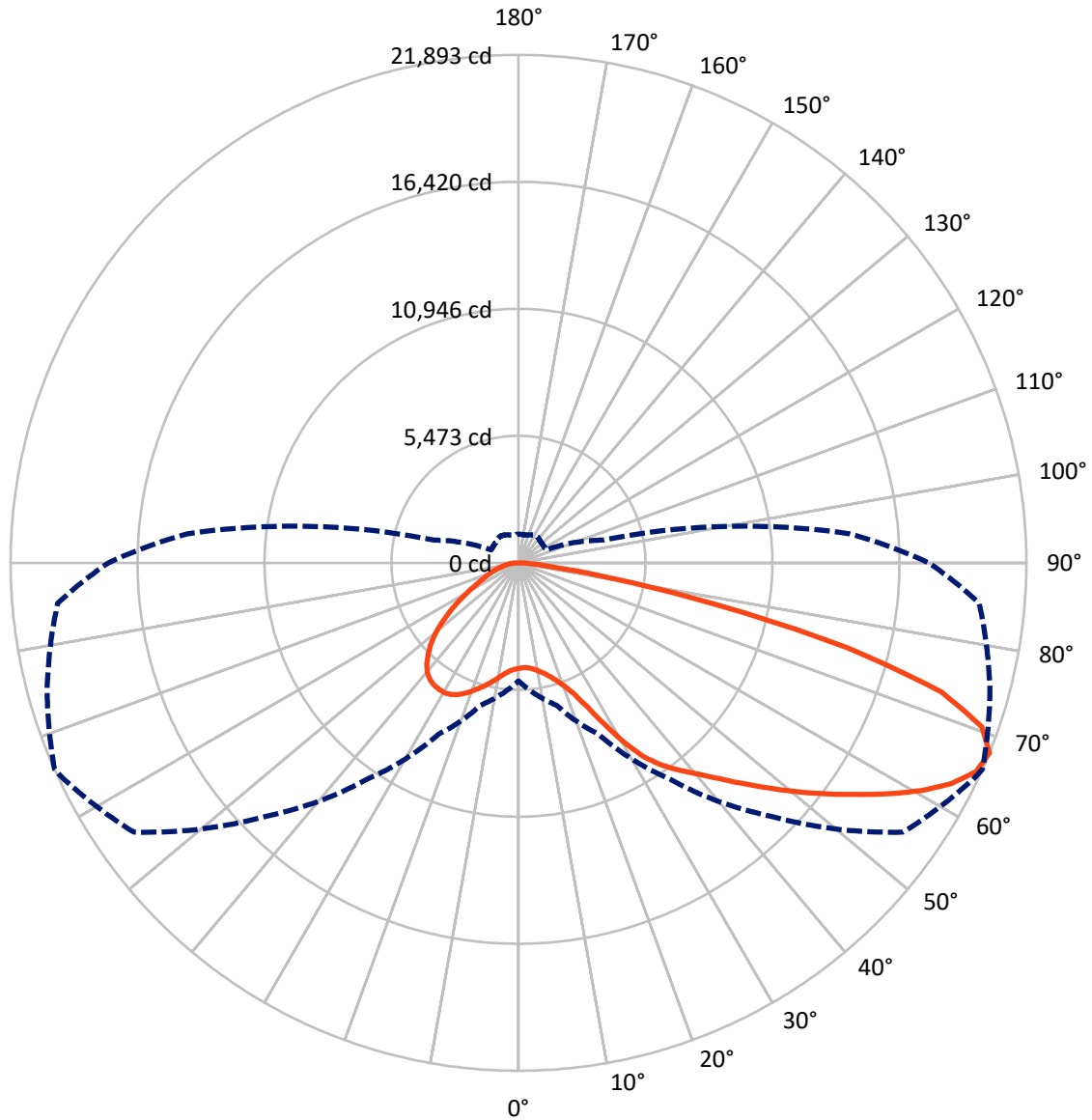
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	10197.5	0.0	10197.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30814.5	0.0	30814.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	41012.0	0.0	41012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.0	1.1
10°-20°	1490.0	3.6
20°-30°	2871.9	7.0
30°-40°	5035.6	12.3
40°-50°	7486.2	18.3
50°-60°	9489.5	23.1
60°-70°	9285.2	22.6
70°-80°	4429.2	10.8
80°-90°	473.4	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°	41012.0	100.0
0°-180°	41012.0	100.0

Coefficient of Utilization

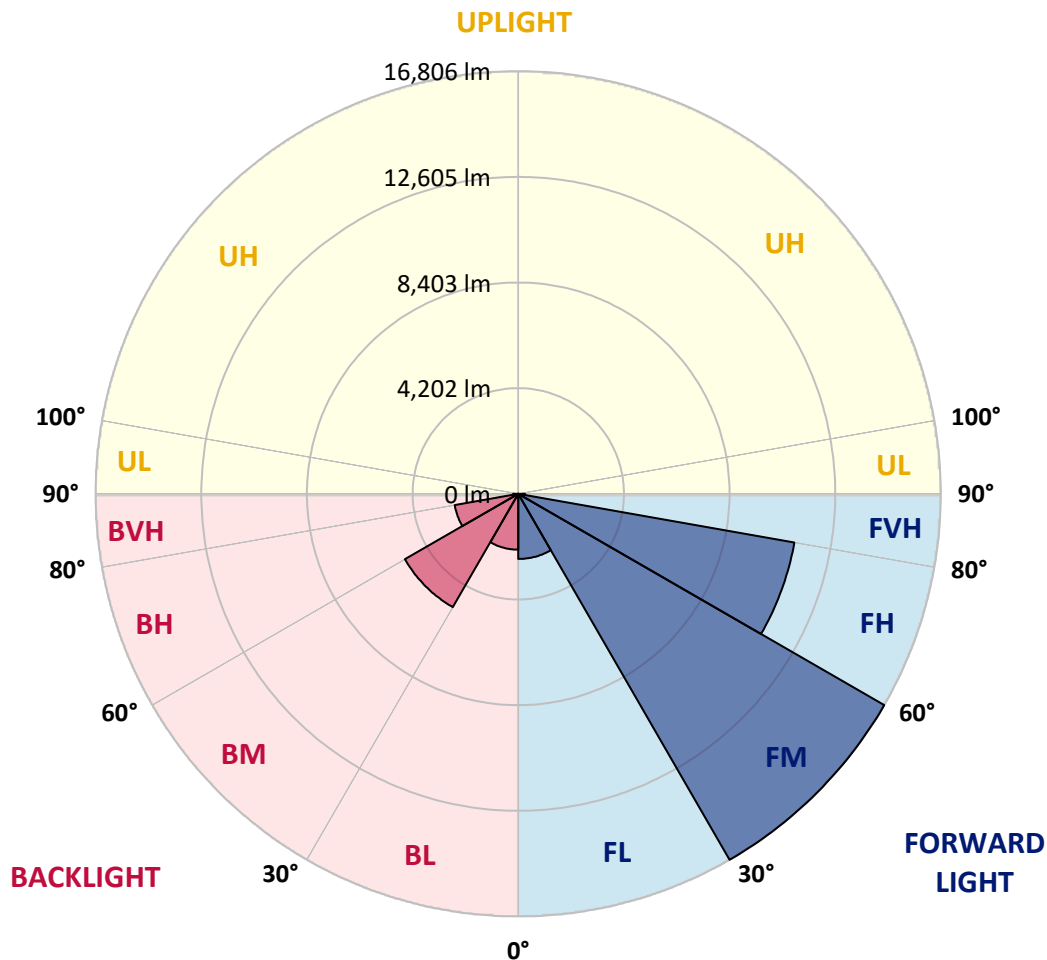


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2591.6	6.3			
FM (30°-60°)	16806.4	41.0			
FH (60°-80°)	11148.2	27.2			G4/12000
FVH (80°-90°)	268.4	0.7			G3/500
BL (0°-30°)	2221.4	5.4	B3/2500		
BM (30°-60°)	5204.9	12.7	B4/8500		
BH (60°-80°)	2566.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	205.0	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8
2.5°	4501.4	4527.2	4520.8	4510.0	4507.8	4512.1	4518.6	4525.1	4522.9	4533.7
5°	4488.4	4514.3	4512.1	4512.1	4520.8	4538.0	4548.8	4559.5	4548.8	4561.7
7.5°	4497.1	4516.5	4525.1	4533.7	4555.2	4587.6	4613.4	4637.1	4624.2	4639.3
10°	4607.0	4622.0	4630.7	4630.7	4645.7	4682.4	4708.2	4751.3	4740.5	4764.3
12.5°	4807.3	4822.4	4822.4	4813.8	4824.6	4848.3	4856.9	4904.3	4884.9	4923.7
15°	5053.0	5083.2	5059.5	5044.4	5048.7	5072.4	5070.2	5106.9	5087.5	5119.8
17.5°	5324.5	5363.3	5324.5	5322.3	5313.7	5339.6	5341.7	5374.1	5339.6	5363.3
20°	5645.6	5699.4	5667.1	5677.9	5658.5	5669.3	5680.0	5727.4	5673.6	5690.8
22.5°	6098.1	6162.7	6128.2	6169.2	6156.3	6147.6	6145.5	6229.5	6145.5	6151.9
25°	6757.4	6835.0	6774.7	6830.7	6830.7	6858.7	6891.0	6998.8	6858.7	6817.8
27.5°	7731.4	7809.0	7690.5	7724.9	7714.2	7783.1	7748.6	8015.8	7865.0	7798.2
30°	8903.6	9041.5	8817.4	8808.8	8798.0	8907.9	8957.5	9134.2	8981.2	8914.4
32.5°	10170.6	10315.0	10047.8	9970.2	9929.3	9996.1	9955.2	10097.4	9991.8	9888.4
35°	11510.9	11653.1	11398.9	11248.0	11084.3	10944.2	10797.7	10834.3	10735.2	10577.9
37.5°	12777.9	13038.7	12769.3	12607.7	12306.0	12032.4	11623.0	11452.7	11360.1	11215.7
40°	14068.7	14217.3	14012.6	13874.7	13547.2	13118.4	12463.3	12103.5	11978.5	11838.4
42.5°	15018.9	15161.1	15051.2	14956.4	14700.0	14202.3	13355.4	12905.1	12724.1	12566.8
45°	15773.1	15878.7	15809.7	15844.2	15734.3	15251.6	14279.8	13764.8	13577.4	13385.6
47.5°	16076.9	16189.0	16298.9	16503.6	16691.0	16335.5	15273.2	14695.7	14497.5	14301.4
50°	16042.5	16156.7	16475.6	16910.8	17492.6	17374.1	16320.4	15686.9	15503.8	15279.7
52.5°	15766.6	15895.9	16305.3	17029.3	17955.9	18152.0	17387.0	16710.4	16538.1	16270.9
55°	15042.6	15120.2	15734.3	16760.0	18065.8	18695.0	18432.1	17800.8	17628.4	17255.6
57.5°	13700.2	13812.2	14706.5	16033.8	17790.0	19063.5	19350.1	18947.1	18781.2	18244.7
60°	11948.3	12127.2	13150.7	14814.2	17087.5	19061.3	20184.0	20074.1	19936.2	19218.6
62.5°	9965.9	10172.8	11157.5	13090.4	15859.3	18520.5	20705.4	21017.9	20946.8	20117.2
65°	7653.8	7796.0	8776.5	10860.2	13948.0	17359.0	20765.8	21662.2	21675.1	20800.2
67.5°	5096.1	5505.5	6356.6	8149.4	11388.1	15460.7	20235.7	21767.7	21892.7	21035.1
70°	2486.6	3025.3	3859.2	5296.5	8149.4	12549.5	18850.1	20901.5	21179.5	20349.9
72.5°	1032.1	1206.7	1661.3	2613.8	4678.1	8468.3	16066.2	18552.8	19067.8	18031.3
75°	696.0	754.2	950.3	1340.3	2131.1	4176.0	11586.3	13833.8	14663.4	13618.3
77.5°	536.5	573.2	691.7	937.3	1267.0	1579.5	6201.5	8336.9	8765.7	8115.0
80°	422.3	450.4	517.2	683.1	898.5	844.7	2113.9	3777.4	4025.2	3376.6
82.5°	366.3	377.1	370.6	463.3	596.9	493.4	693.8	1394.2	1538.5	1116.2
85°	265.0	295.2	308.1	286.6	316.8	250.0	284.4	493.4	543.0	484.8
87.5°	107.7	159.5	196.1	185.3	116.4	71.1	88.3	144.4	165.9	181.0
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°
4548.8	0°	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8	4548.8
4550.9	2.5°	4553.1	4568.2	4578.9	4591.9	4600.5	4613.4	4639.3	4654.4	4656.5	4667.3
4585.4	5°	4594.0	4615.6	4639.3	4673.8	4712.5	4744.9	4794.4	4828.9	4841.8	4852.6
4669.4	7.5°	4682.4	4712.5	4755.6	4816.0	4872.0	4915.1	4975.4	5016.4	5057.3	5072.4
4803.0	10°	4813.8	4856.9	4919.4	5001.3	5061.6	5117.6	5180.1	5214.6	5255.5	5272.8
4962.5	12.5°	4977.6	5022.8	5104.7	5218.9	5274.9	5313.7	5335.3	5326.7	5335.3	5350.4
5154.3	15°	5165.0	5214.6	5307.3	5430.1	5468.9	5434.4	5387.0	5343.9	5337.4	5341.7
5387.0	17.5°	5387.0	5423.6	5531.4	5634.8	5606.8	5464.6	5361.1	5292.2	5257.7	5246.9
5684.3	20°	5697.3	5697.3	5785.6	5850.3	5662.8	5421.5	5259.9	5147.8	5076.7	5046.5
6089.5	22.5°	6074.4	6039.9	6095.9	6050.7	5652.0	5300.8	5076.7	4882.8	4775.0	4731.9
6656.2	25°	6552.7	6511.8	6496.7	6216.6	5574.5	5109.0	4744.9	4510.0	4415.2	4391.5
7472.8	27.5°	7274.6	7171.2	6975.1	6307.1	5432.2	4807.3	4357.0	4139.4	4085.5	4087.6
8522.2	30°	8235.6	8028.8	7548.2	6322.2	5199.5	4380.7	3960.5	3805.4	3779.5	3790.3
9403.5	32.5°	9125.6	8929.5	8134.4	6253.2	4841.8	3962.7	3605.0	3501.5	3462.8	3475.7
10075.8	35°	9823.7	9769.8	8677.4	6156.3	4402.2	3570.5	3286.1	3197.7	3122.3	3105.1
10709.3	37.5°	10483.1	10461.5	9084.6	6020.5	3967.0	3292.5	3029.6	2913.3	2803.4	2743.1
11409.6	40°	11207.1	11185.5	9351.8	5811.5	3581.3	3051.2	2799.1	2646.1	2510.3	2400.4
12202.6	42.5°	12021.6	11894.5	9478.9	5512.0	3253.7	2846.5	2611.6	2404.8	2225.9	2124.6
13099.0	45°	12911.5	12624.9	9476.8	5130.6	2977.9	2659.0	2411.2	2118.2	1952.2	1857.4
14019.1	47.5°	13855.3	13323.1	9360.4	4708.2	2710.7	2452.2	2100.9	1876.8	1766.9	1708.8
15018.9	50°	14829.3	13976.0	9162.2	4223.4	2437.1	2217.3	1907.0	1754.0	1670.0	1616.1
16010.1	52.5°	15745.1	14568.6	8923.0	3673.9	2159.1	1988.9	1820.8	1702.3	1613.9	1553.6
16971.2	55°	16596.2	15079.3	8584.7	3111.5	1932.9	1835.9	1779.9	1680.7	1579.5	1508.4
17947.3	57.5°	17352.6	15411.1	8000.8	2583.6	1771.2	1730.3	1736.8	1644.1	1527.7	1467.4
18908.3	60°	17981.8	15654.6	7136.7	2094.5	1639.8	1626.9	1670.0	1575.2	1439.4	1370.4
19720.7	62.5°	18358.9	15650.3	6076.5	1715.2	1527.7	1532.1	1581.6	1489.0	1351.1	1286.4
20145.2	65°	18326.5	15266.7	4912.9	1467.4	1420.0	1424.3	1489.0	1394.2	1277.8	1239.0
19931.9	67.5°	17677.9	14331.5	3768.7	1305.8	1301.5	1320.9	1396.3	1329.5	1232.5	1228.2
18660.5	70°	15921.8	12390.1	2715.0	1176.5	1178.7	1206.7	1305.8	1288.6	1208.8	1217.5
15689.1	72.5°	12767.2	9446.6	1823.0	1040.8	1042.9	1088.2	1219.6	1256.2	1185.1	1299.3
11131.7	75°	8502.8	5891.2	1172.2	896.4	898.5	956.7	1144.2	1193.8	1120.5	1295.0
5792.1	77.5°	4085.5	2648.2	849.0	754.2	754.2	808.0	989.1	1068.8	954.6	1006.3
1861.7	80°	1411.4	995.5	668.0	607.7	594.7	631.4	833.9	926.6	823.1	758.5
607.7	82.5°	555.9	517.2	536.5	471.9	428.8	452.5	648.6	765.0	605.5	547.3
342.6	85°	318.9	336.1	379.2	312.4	247.8	278.0	476.2	549.5	456.8	402.9
112.0	87.5°	86.2	118.5	174.5	161.6	112.0	118.5	226.3	303.8	262.9	202.6
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>
4548.8
4665.1
4850.4
5074.5
5281.4
5354.7
5356.8
5262.0
5040.1
4725.5
4395.8
4094.1
3826.9
3492.9
3118.0
2745.2
2411.2
2131.1
1853.1
1695.8
1596.7
1527.7
1480.3
1428.6
1340.3
1267.0
1236.9
1234.7
1215.3
1316.6
1305.8
922.3
711.1
545.2
411.6
209.0
0.0

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