

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: P952935

Luminaire Tested: **GALN-SB6C-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43355 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

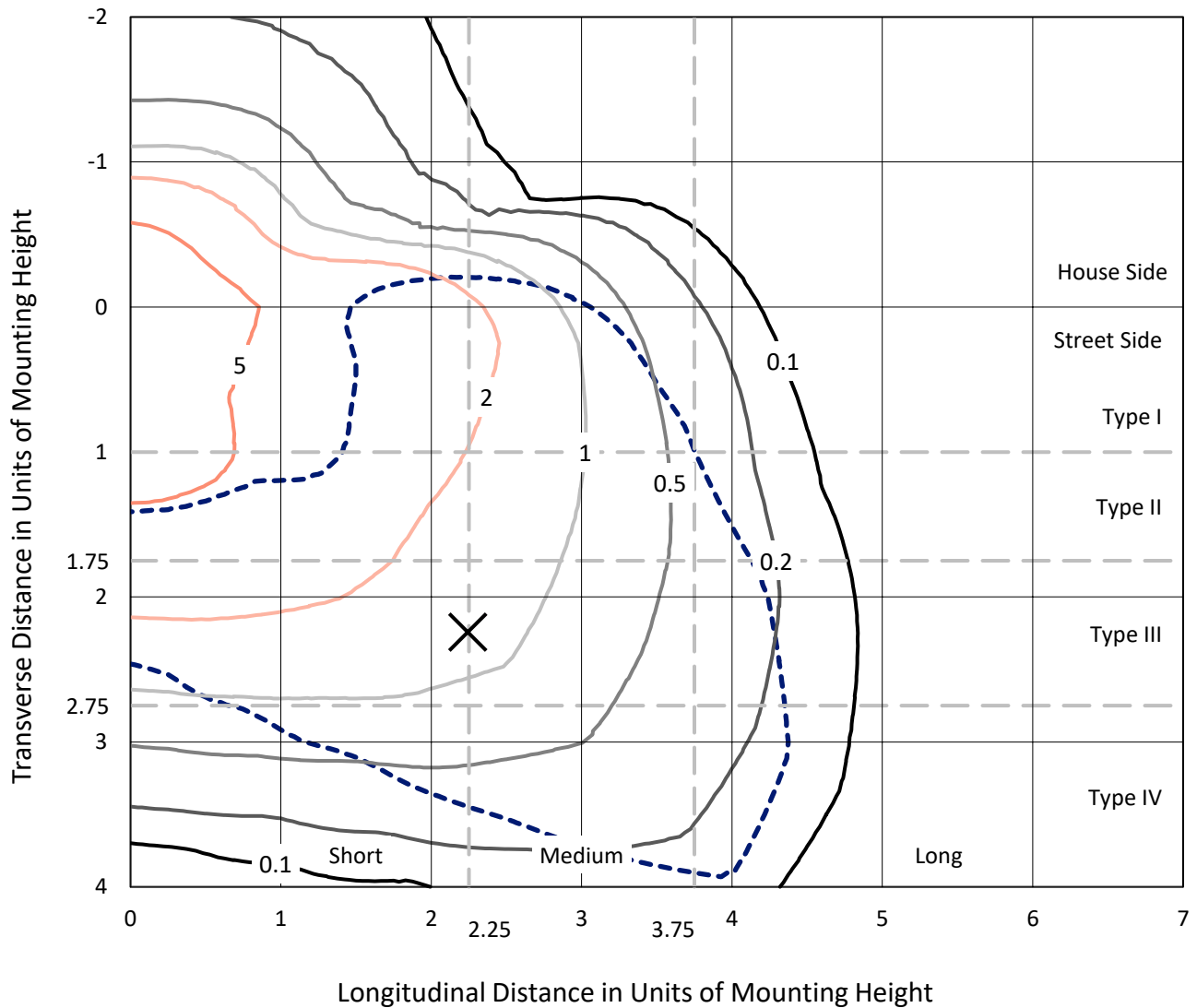
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

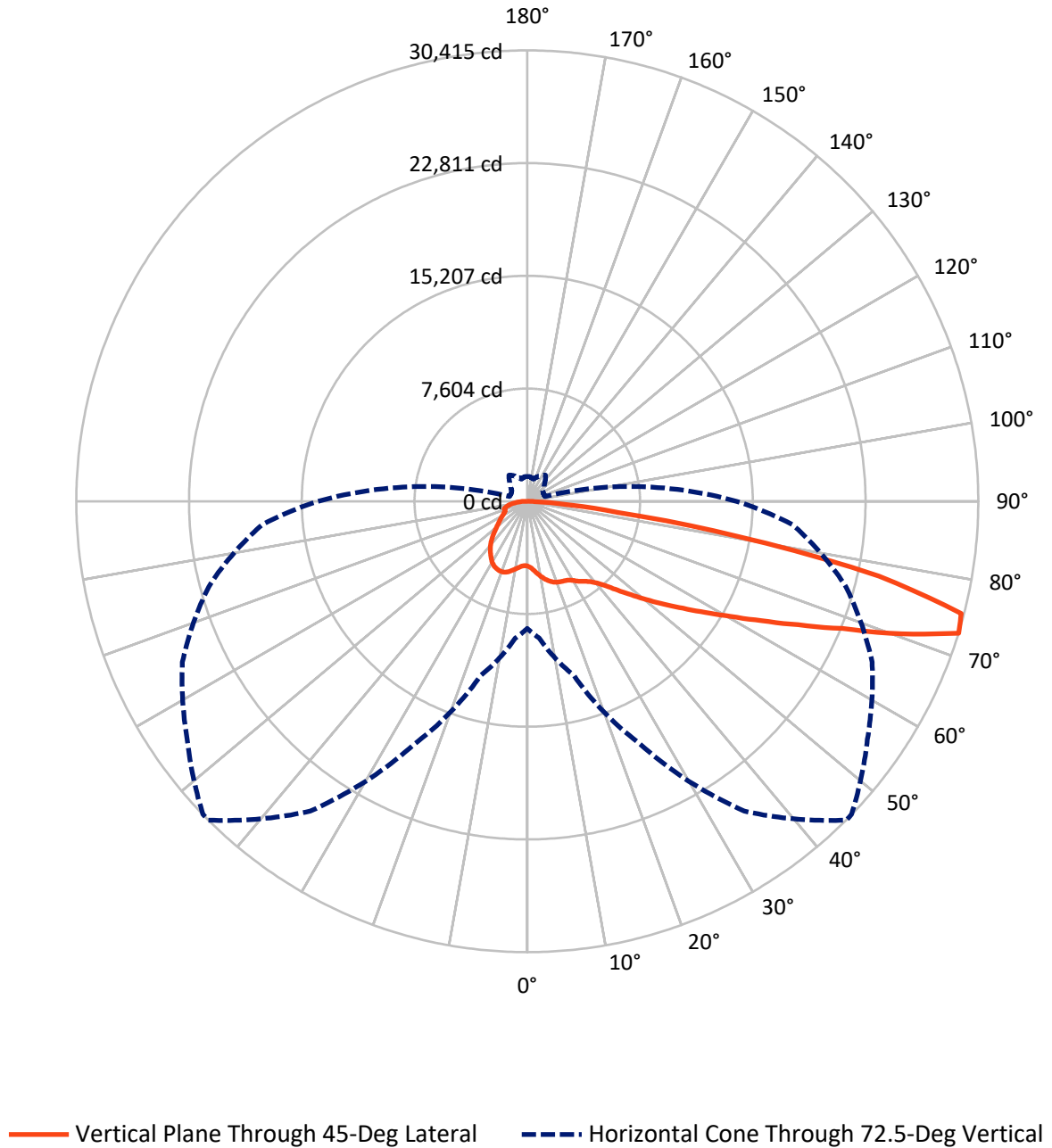
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9801.1	0.0	9801.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33553.9	0.0	33553.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	43355.0	0.0	43355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	1.0
10°-20°	1484.2	3.4
20°-30°	2581.9	6.0
30°-40°	3701.2	8.5
40°-50°	5211.5	12.0
50°-60°	7982.6	18.4
60°-70°	11563.9	26.7
70°-80°	9234.5	21.3
80°-90°	1150.1	2.7
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°	43355.0	100.0
0°-180°	43355.0	100.0

Coefficient of Utilization



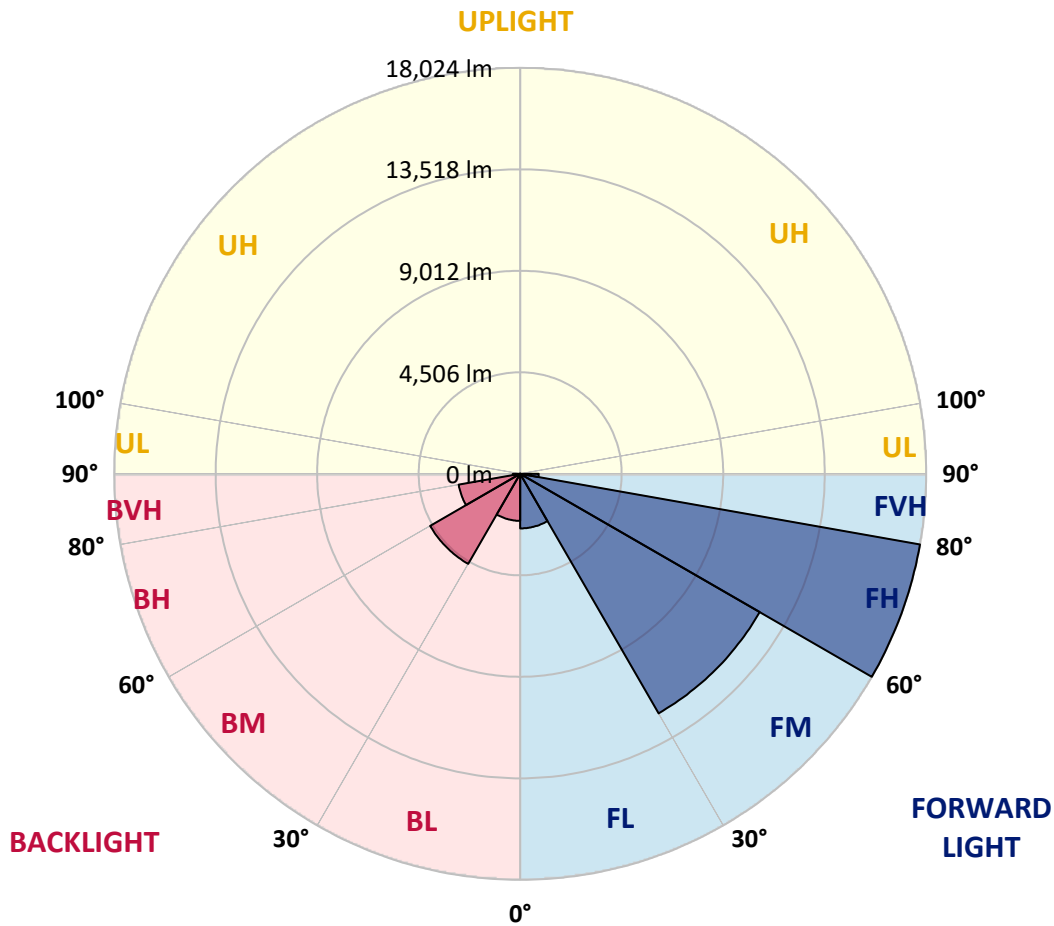
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2424.5	5.6			
FM (30°-60°)	12280.4	28.3			
FH (60°-80°)	18023.9	41.6			G5
FVH (80°-90°)	825.1	1.9			G5
BL (0°-30°)	2086.7	4.8	B3/2500		
BM (30°-60°)	4614.9	10.6	B3/5000		
BH (60°-80°)	2774.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	325.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7
2.5°	4545.0	4574.7	4547.3	4522.1	4510.7	4481.0	4478.7	4460.5	4449.0	4417.1
5°	4862.4	4901.3	4855.6	4805.3	4759.7	4686.6	4677.4	4624.9	4565.5	4497.0
7.5°	5221.0	5255.3	5202.7	5127.4	5047.4	4926.4	4924.1	4828.2	4734.5	4618.1
10°	5533.9	5579.6	5508.8	5406.0	5305.5	5168.5	5152.5	5042.9	4924.1	4773.4
12.5°	5810.3	5842.2	5773.7	5648.1	5531.6	5394.6	5374.0	5253.0	5120.5	4949.2
15°	6029.5	6070.6	5979.3	5844.5	5721.2	5586.4	5568.2	5458.5	5326.1	5145.6
17.5°	6173.4	6207.7	6114.0	5963.3	5844.5	5732.6	5718.9	5627.5	5511.1	5328.3
20°	6228.2	6264.7	6166.5	6013.5	5903.9	5817.1	5810.3	5744.0	5664.1	5497.4
22.5°	6283.0	6317.3	6189.4	6029.5	5933.6	5878.8	5876.5	5833.1	5801.1	5664.1
25°	6504.6	6513.7	6342.4	6111.7	5974.7	5926.7	5924.4	5922.2	5935.9	5828.5
27.5°	6696.4	6694.1	6548.0	6331.0	6118.6	6018.1	6015.8	6038.6	6082.0	5993.0
30°	6977.3	6952.2	6778.6	6552.5	6358.4	6203.1	6189.4	6168.8	6203.1	6132.3
32.5°	7573.4	7493.5	7212.6	6810.6	6557.1	6438.3	6420.1	6292.2	6305.9	6262.5
35°	8427.6	8322.5	7948.0	7299.4	6803.7	6634.7	6625.6	6463.4	6436.0	6397.2
37.5°	9443.9	9313.8	8877.5	8007.4	7228.6	6863.1	6849.4	6703.3	6591.3	6550.2
40°	10464.8	10300.4	9939.5	8870.7	7854.3	7244.5	7201.1	6979.6	6851.7	6783.2
42.5°	11456.1	11319.0	11010.7	9839.1	8626.3	7801.8	7705.9	7326.8	7230.8	7166.9
45°	12333.1	12209.7	11983.6	10873.7	9530.7	8560.1	8466.4	7847.5	7817.8	7817.8
47.5°	13045.7	13018.3	12778.4	11928.8	10597.3	9423.4	9261.2	8571.5	8651.4	8774.8
50°	13835.9	13760.5	13504.7	12968.0	11851.2	10412.3	10279.9	9459.9	9759.1	10097.1
52.5°	14562.2	14603.3	14317.8	14050.6	13267.2	11515.4	11282.5	10508.2	11154.6	11714.1
55°	15309.0	15311.3	15231.4	15194.8	14751.7	12735.0	12479.3	11769.0	12796.7	13491.0
57.5°	16010.2	16014.7	16133.5	16455.5	16473.8	14141.9	13851.9	13317.4	14621.6	15329.6
60°	16636.0	16667.9	16992.2	17745.9	17988.0	15754.4	15480.3	15146.8	16508.1	17220.6
62.5°	16846.1	16962.6	17684.3	18755.4	19484.0	17732.2	17462.7	17264.0	18490.5	19152.8
65°	16489.8	16757.0	18152.5	19589.0	21023.3	20082.4	19815.1	19598.2	20550.6	21174.1
67.5°	15615.0	15959.9	18125.1	20463.8	22891.6	22909.8	22660.9	22151.6	22759.1	22998.9
70°	13310.6	13826.8	16528.6	20790.4	25036.2	26776.5	26536.7	25225.7	24963.1	23802.8
72.5°	8576.1	9270.4	12170.9	18102.2	25513.5	30414.7	30401.0	28000.7	25659.7	22240.7
75°	3128.9	3553.8	5654.9	11362.4	21416.2	30229.7	30318.8	27525.6	23423.7	17179.5
77.5°	1139.7	1247.0	1845.4	4366.8	13171.3	24255.1	24440.1	22005.4	16672.5	8621.7
80°	598.4	657.8	945.5	1694.7	5643.5	14404.6	14694.6	13077.6	7836.1	2596.8
82.5°	331.2	358.6	529.9	920.4	2542.0	6159.7	6333.3	5166.2	2756.7	1100.8
85°	178.1	189.6	248.9	502.5	1242.4	2135.4	2183.4	1543.9	1098.6	646.3
87.5°	52.5	63.9	82.2	159.9	486.5	479.6	491.0	306.0	433.9	326.6
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°
4373.7	0°	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7	4373.7
4407.9	2.5°	4394.2	4387.4	4362.3	4350.8	4337.1	4334.8	4346.3	4348.6	4350.8	4353.1
4458.2	5°	4435.3	4412.5	4389.7	4376.0	4380.5	4382.8	4405.7	4421.6	4433.1	4442.2
4551.8	7.5°	4515.3	4497.0	4458.2	4455.9	4462.7	4483.3	4513.0	4549.5	4570.1	4586.1
4672.9	10°	4634.0	4599.8	4554.1	4561.0	4574.7	4604.3	4666.0	4695.7	4730.0	4759.7
4821.3	12.5°	4755.1	4725.4	4672.9	4677.4	4700.3	4752.8	4812.2	4848.7	4871.6	4894.4
4981.2	15°	4912.7	4860.1	4803.0	4803.0	4844.2	4901.3	4928.7	4958.4	4972.1	4997.2
5152.5	17.5°	5074.8	5006.3	4930.9	4926.4	4976.6	5004.0	5020.0	5024.6	5029.2	5056.6
5319.2	20°	5237.0	5161.6	5054.3	5045.1	5056.6	5052.0	5049.7	5045.1	5052.0	5086.3
5490.5	22.5°	5396.9	5310.1	5161.6	5120.5	5088.5	5045.1	5042.9	5040.6	5045.1	5079.4
5675.5	25°	5584.1	5479.1	5280.4	5157.1	5049.7	4990.3	4997.2	4999.5	5004.0	5031.4
5867.3	27.5°	5787.4	5670.9	5390.0	5145.6	4951.5	4910.4	4899.0	4905.8	4921.8	4965.2
6059.2	30°	5990.7	5853.6	5490.5	5100.0	4828.2	4771.1	4734.5	4750.5	4800.8	4844.2
6225.9	32.5°	6175.7	6038.6	5570.4	4999.5	4670.6	4581.5	4533.5	4554.1	4604.3	4620.3
6410.9	35°	6392.6	6237.3	5604.7	4839.6	4499.3	4362.3	4298.3	4268.6	4293.7	4277.8
6627.9	37.5°	6634.7	6472.6	5600.1	4629.5	4298.3	4140.7	4051.6	3939.7	3887.2	3832.4
6947.6	40°	6993.3	6760.4	5545.3	4376.0	4049.4	3905.5	3745.6	3556.0	3437.3	3329.9
7463.8	42.5°	7482.1	7160.0	5444.8	4097.3	3768.4	3633.7	3416.7	3195.2	3007.9	2829.8
8247.2	45°	8210.6	7683.1	5319.2	3800.4	3464.7	3332.2	3097.0	2848.0	2635.6	2407.2
9359.4	47.5°	9261.2	8386.5	5200.4	3462.4	3144.9	3023.9	2811.5	2580.8	2329.6	2108.0
10967.3	50°	10704.7	9396.0	5090.8	3133.5	2829.8	2738.4	2569.4	2334.1	2080.6	1902.5
12851.5	52.5°	12540.9	10768.6	5045.1	2816.1	2535.1	2500.9	2366.1	2146.9	1907.1	1756.3
15048.6	55°	14649.0	12410.7	5045.1	2512.3	2277.1	2288.5	2194.8	1991.6	1783.7	1649.0
17314.3	57.5°	16800.4	14073.4	4953.8	2231.4	2057.8	2105.8	2046.4	1868.2	1681.0	1541.6
19696.4	60°	18782.8	15466.6	4583.8	1975.6	1863.7	1939.0	1900.2	1747.2	1518.8	1402.3
21687.9	62.5°	20306.2	16252.3	3871.2	1772.3	1703.8	1790.6	1770.0	1587.3	1489.1	1441.1
23323.2	65°	21069.0	16124.4	2959.9	1591.9	1569.0	1703.8	1660.4	1653.5	1575.9	1521.1
23855.4	67.5°	20600.8	15023.5	2146.9	1459.4	1491.4	1623.9	1790.6	1818.0	1674.1	1566.8
22357.1	70°	18547.6	13032.0	1598.7	1333.8	1393.2	1626.1	2041.8	1902.5	1642.1	1516.5
17930.9	72.5°	14110.0	9718.0	1240.2	1201.3	1265.3	1637.6	2153.7	1863.7	1550.8	1676.4
11170.6	75°	8069.0	5335.2	995.8	1039.2	1105.4	1530.2	2096.6	1763.2	1480.0	1539.4
4426.2	77.5°	3076.4	2050.9	822.2	879.3	888.4	1336.1	2005.3	1756.3	1409.2	1374.9
1326.9	80°	1066.6	801.7	680.6	698.9	687.5	1187.6	1923.0	1527.9	1153.4	1032.3
548.1	82.5°	436.2	399.7	539.0	516.2	488.8	922.7	1553.1	1249.3	943.3	833.6
264.9	85°	189.6	253.5	356.3	312.9	283.2	639.5	1244.7	1057.4	797.1	687.5
86.8	87.5°	38.8	95.9	150.7	141.6	146.2	427.1	883.9	751.4	564.1	422.5
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>
4373.7
4362.3
4446.8
4590.6
4752.8
4903.5
5006.3
5065.7
5100.0
5102.2
5068.0
5008.6
4892.1
4677.4
4328.0
3866.6
3336.8
2813.8
2379.8
2082.9
1891.1
1744.9
1635.3
1518.8
1384.0
1425.2
1502.8
1548.5
1496.0
1662.7
1539.4
1253.9
998.1
824.5
685.2
331.2
0.0

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