

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: P950002

Luminaire Tested: **GALN-SB4C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26806 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

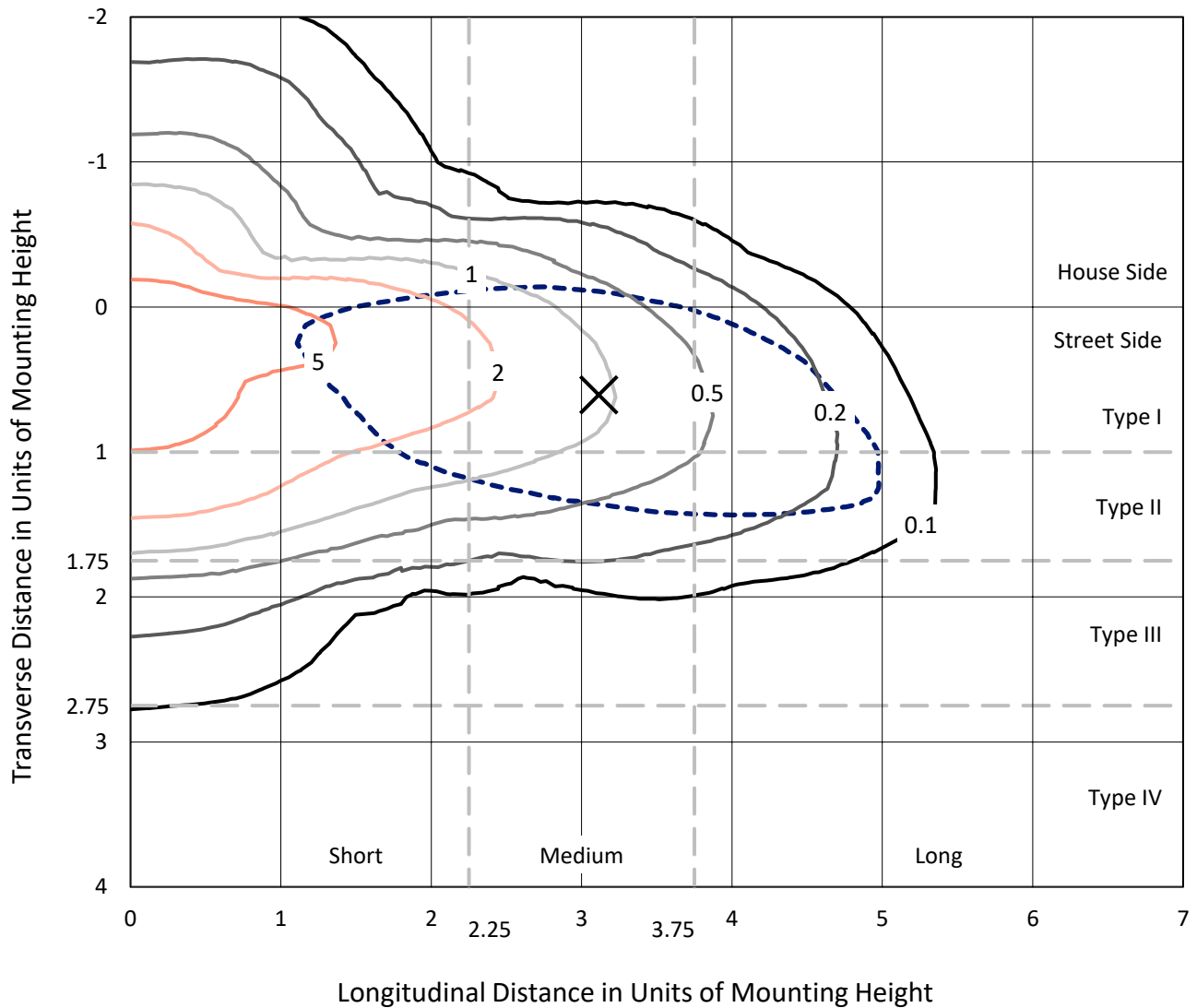
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

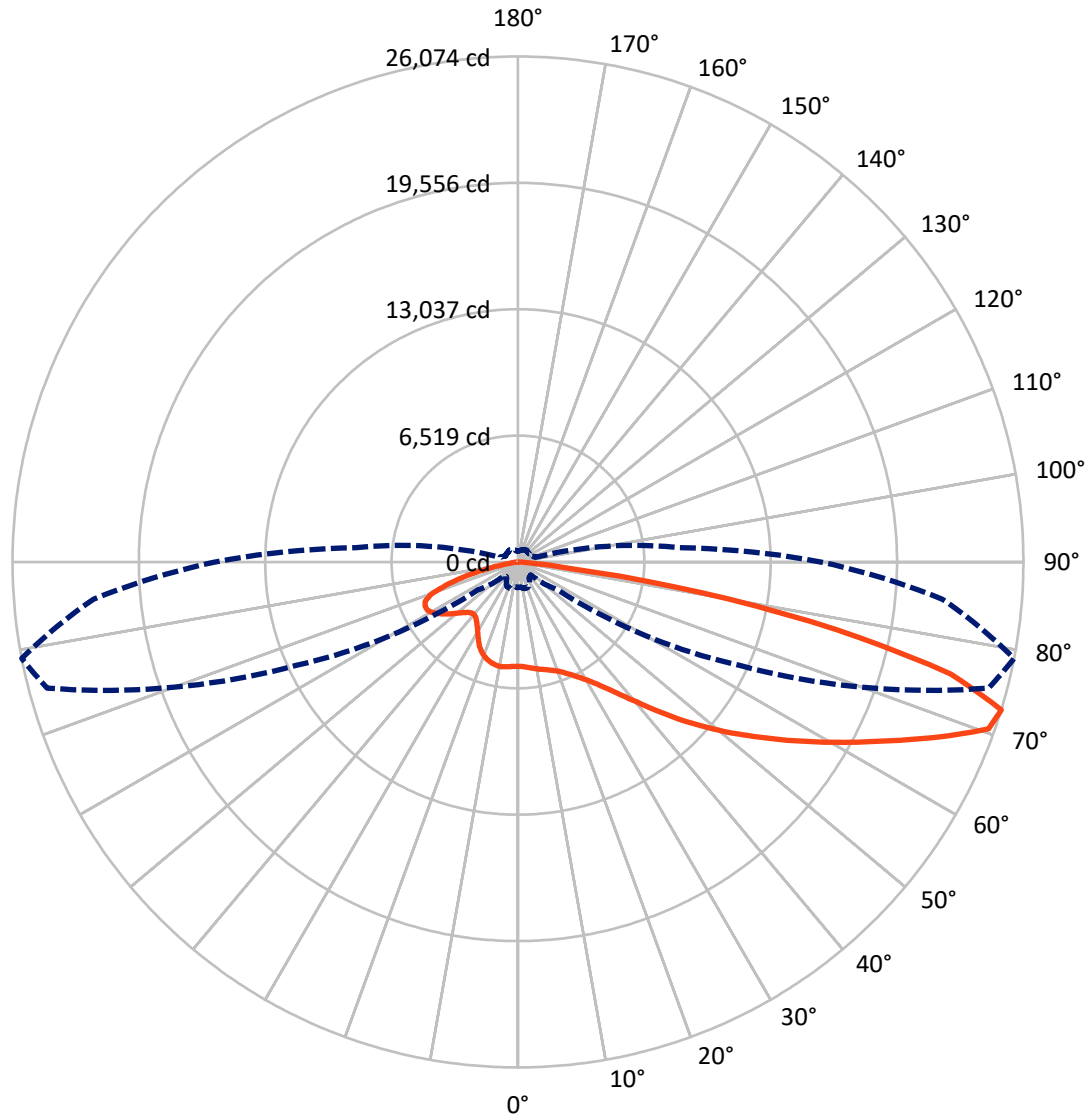
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5898.8	0.0	5898.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	20907.2	0.0	20907.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	26806.0	0.0	26806.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.4	1.8
10°-20°	1277.0	4.8
20°-30°	2060.6	7.7
30°-40°	3092.7	11.5
40°-50°	4387.2	16.4
50°-60°	5540.4	20.7
60°-70°	5627.0	21.0
70°-80°	3835.1	14.3
80°-90°	497.6	1.9
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°	26806.0	100.0
0°-180°	26806.0	100.0



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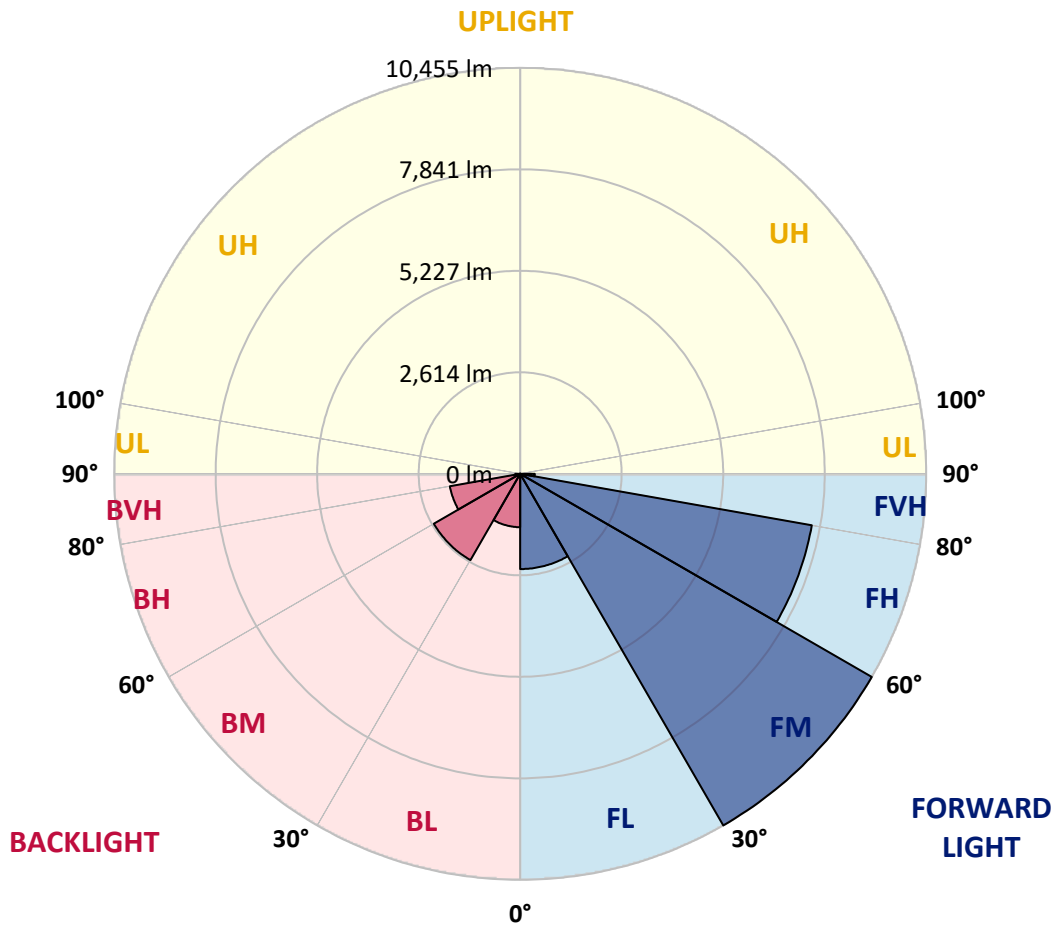
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.1	9.1			
FM (30°-60°)	10454.9	39.0			
FH (60°-80°)	7625.4	28.4			G4/12000
FVH (80°-90°)	374.8	1.4			G3/500
BL (0°-30°)	1374.0	5.1	B3/2500		
BM (30°-60°)	2565.4	9.6	B3/5000		
BH (60°-80°)	1836.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	122.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0
2.5°	5383.9	5358.4	5374.0	5368.3	5375.4	5383.9	5386.7	5391.0	5405.2	5403.7
5°	5372.5	5347.0	5368.3	5361.2	5379.6	5399.5	5416.5	5432.1	5454.8	5464.7
7.5°	5348.4	5331.4	5352.7	5374.0	5408.0	5437.8	5461.9	5497.3	5529.9	5535.6
10°	5208.1	5195.3	5244.9	5300.2	5393.8	5474.6	5527.1	5568.2	5603.7	5609.3
12.5°	5062.0	5046.4	5101.7	5176.9	5328.6	5474.6	5585.2	5639.1	5670.3	5688.7
15°	5037.9	5025.1	5056.3	5121.6	5247.8	5436.3	5624.9	5724.2	5751.1	5772.4
17.5°	5154.2	5130.1	5142.8	5165.5	5239.3	5400.9	5656.1	5820.6	5861.7	5884.4
20°	5423.6	5389.6	5369.7	5324.3	5311.6	5406.6	5653.3	5936.9	5990.8	6019.1
22.5°	5782.3	5759.6	5717.1	5602.2	5477.5	5476.1	5707.2	6085.8	6186.4	6213.4
25°	6216.2	6182.2	6128.3	5972.3	5732.7	5613.6	5797.9	6275.8	6444.5	6451.6
27.5°	6715.3	6664.3	6590.5	6384.9	6061.7	5829.1	5936.9	6494.1	6740.8	6738.0
30°	7241.4	7190.3	7112.3	6862.8	6455.8	6119.8	6129.7	6729.5	7092.5	7076.9
32.5°	7625.6	7587.4	7571.8	7378.9	6909.6	6462.9	6350.9	6990.4	7526.4	7512.2
35°	7920.6	7870.9	7889.4	7791.5	7404.4	6847.2	6621.7	7300.9	8053.9	8052.4
37.5°	8212.7	8168.7	8184.3	8119.1	7862.4	7335.0	6952.1	7680.9	8707.5	8738.7
40°	8479.2	8432.4	8494.8	8433.9	8218.3	7853.9	7327.9	8110.6	9464.7	9524.2
42.5°	8639.5	8602.6	8706.1	8707.5	8527.4	8292.1	7740.5	8584.2	10341.0	10474.3
45°	8694.8	8682.0	8838.0	8870.6	8801.1	8545.9	8112.0	9100.3	11285.3	11523.5
47.5°	8635.2	8611.1	8826.6	8947.1	9002.4	8665.0	8419.7	9658.9	12249.5	12598.3
50°	8334.6	8287.8	8608.3	8862.1	9059.2	8743.0	8730.2	10304.1	13345.6	13727.0
52.5°	7794.4	7758.9	8123.3	8564.3	8934.4	8781.2	9079.0	11008.8	14386.3	14879.8
55°	7103.8	7057.0	7458.3	8034.0	8623.9	8768.5	9427.8	11797.2	15614.3	16114.8
57.5°	6009.2	5915.6	6423.2	7103.8	8117.7	8752.9	9790.8	12581.3	16862.0	17461.8
60°	4412.6	4273.6	4896.1	5702.9	7127.9	8601.2	10240.3	13460.4	18359.4	18899.6
62.5°	2569.3	2488.5	2895.4	3648.3	5372.5	7707.9	10492.7	14482.8	19831.2	20398.4
65°	1995.0	1972.3	2007.8	2065.9	2990.4	5771.0	9714.2	15479.6	21702.9	22099.9
67.5°	1824.9	1807.9	1823.5	1714.3	1517.2	3214.5	7685.2	15731.9	23707.8	23948.9
70°	1622.1	1602.3	1653.3	1559.7	1193.9	1461.9	4965.6	14816.0	25303.0	25755.3
72.5°	1321.5	1298.8	1417.9	1375.4	1005.3	938.7	2494.1	12639.4	25135.7	26074.3
75°	1015.2	1002.5	1144.3	1179.7	819.6	738.7	1196.7	9395.2	22119.7	23065.5
77.5°	788.4	778.4	850.8	979.8	660.8	572.8	735.9	5959.6	16669.2	16835.1
80°	591.3	562.9	629.6	758.6	514.7	418.3	499.1	3475.3	10536.6	9551.2
82.5°	370.1	355.9	411.2	506.2	363.0	287.8	324.7	1919.9	4222.6	2487.1
85°	211.3	205.6	224.0	289.3	197.1	165.9	185.7	847.9	771.4	530.3
87.5°	85.1	82.2	102.1	129.0	72.3	61.0	65.2	204.2	170.2	157.4
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°
5381.0	0°	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0	5381.0
5402.3	2.5°	5396.6	5396.6	5376.8	5345.6	5310.2	5287.5	5250.6	5240.7	5202.4	5191.0
5450.5	5°	5461.9	5450.5	5389.6	5301.6	5181.1	5070.5	4948.6	4872.0	4764.2	4726.0
5545.5	7.5°	5544.1	5512.9	5408.0	5215.2	4962.8	4714.6	4456.6	4260.9	4073.7	4007.1
5623.5	10°	5619.3	5575.3	5396.6	5059.2	4622.5	4192.8	3781.6	3493.8	3275.4	3186.1
5710.0	12.5°	5694.4	5613.6	5321.5	4799.7	4138.9	3556.2	3118.0	2894.0	2759.3	2651.5
5780.9	15°	5765.3	5651.9	5205.2	4452.3	3608.6	3017.4	2694.1	2515.4	2407.6	2336.8
5884.4	17.5°	5847.5	5684.5	5030.8	4011.3	3103.9	2644.4	2380.7	2272.9	2251.7	2243.2
6026.2	20°	5962.4	5714.3	4801.1	3517.9	2732.4	2346.7	2210.6	2200.6	2199.2	2195.0
6196.4	22.5°	6085.8	5749.7	4497.7	3069.8	2416.2	2160.9	2136.8	2117.0	2104.2	2102.8
6402.0	25°	6231.8	5761.1	4117.7	2702.6	2146.7	2073.0	2044.7	2014.9	2006.4	2006.4
6635.9	27.5°	6373.6	5722.8	3675.3	2383.5	1995.0	1992.2	1955.3	1945.4	1944.0	1948.2
6902.5	30°	6515.4	5650.5	3235.7	2088.6	1907.1	1907.1	1894.4	1901.4	1907.1	1921.3
7268.3	32.5°	6706.8	5573.9	2868.5	1870.3	1830.5	1816.4	1829.1	1843.3	1849.0	1867.4
7749.0	35°	6987.6	5520.0	2576.4	1751.1	1751.1	1732.7	1739.8	1737.0	1724.2	1715.7
8330.3	37.5°	7359.1	5517.2	2335.3	1695.8	1684.5	1681.7	1683.1	1664.7	1615.0	1555.5
9033.6	40°	7805.7	5593.7	2149.6	1657.6	1649.1	1666.1	1657.6	1607.9	1471.8	1368.3
9898.6	42.5°	8405.5	5812.1	2030.5	1610.8	1636.3	1657.6	1623.5	1452.0	1359.8	1290.3
10884.0	45°	9111.6	6166.6	1969.5	1561.1	1612.2	1637.7	1473.2	1398.1	1324.3	1240.7
11958.8	47.5°	9911.3	6613.2	1955.3	1514.4	1558.3	1573.9	1409.4	1375.4	1291.7	1201.0
13039.3	50°	10782.0	7142.1	1993.6	1459.1	1480.3	1426.4	1388.2	1357.0	1270.5	1181.1
14146.7	52.5°	11682.3	7724.9	2070.2	1383.9	1402.3	1342.8	1379.6	1352.7	1257.7	1137.2
15291.0	55°	12567.1	8311.9	2143.9	1296.0	1322.9	1267.6	1355.5	1335.7	1199.6	1063.4
16511.8	57.5°	13466.1	8896.1	2216.2	1218.0	1246.4	1195.3	1317.3	1290.3	1134.3	995.4
17844.7	60°	14400.5	9463.3	2250.3	1142.9	1162.7	1128.7	1259.1	1212.3	1060.6	925.9
19154.8	62.5°	15275.4	9935.4	2195.0	1067.7	1080.5	1066.3	1182.6	1120.2	986.9	847.9
20520.3	65°	16153.1	10216.2	2024.8	994.0	996.8	989.7	1074.8	1020.9	900.4	779.9
21715.6	67.5°	16948.5	10373.6	1754.0	914.6	907.5	904.6	974.1	913.1	816.7	711.8
22624.5	70°	17117.3	9973.7	1339.9	821.0	821.0	813.9	863.5	801.1	724.6	639.5
21973.7	72.5°	15634.1	8389.9	951.4	714.6	726.0	711.8	752.9	700.5	631.0	574.3
18937.9	75°	12606.8	6152.4	692.0	605.5	625.3	601.2	639.5	602.6	543.1	541.6
13050.6	77.5°	8662.1	3804.3	501.9	499.1	513.3	482.1	526.1	506.2	452.3	428.2
5680.2	80°	3696.5	1517.2	365.8	385.7	385.7	357.3	408.4	414.0	367.2	355.9
1096.1	82.5°	735.9	431.1	256.6	265.2	249.6	241.0	289.3	320.5	442.4	492.0
330.4	85°	221.2	158.8	154.6	144.6	127.6	129.0	170.2	321.9	397.0	226.9
109.2	87.5°	61.0	39.7	41.1	32.6	26.9	35.4	58.1	243.9	133.3	56.7
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>
5381.0
5209.5
4754.3
4015.6
3205.9
2687.0
2349.5
2248.8
2209.1
2118.4
2014.9
1959.6
1931.2
1883.0
1735.5
1556.9
1365.5
1287.5
1235.0
1193.9
1171.2
1128.7
1056.4
992.6
921.7
846.5
771.4
703.3
636.7
557.2
487.8
401.3
355.9
493.4
195.7
48.2
0.0

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