

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: P949687

Luminaire Tested: **GALN-SB4B-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949687
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-SB4B-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21456 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

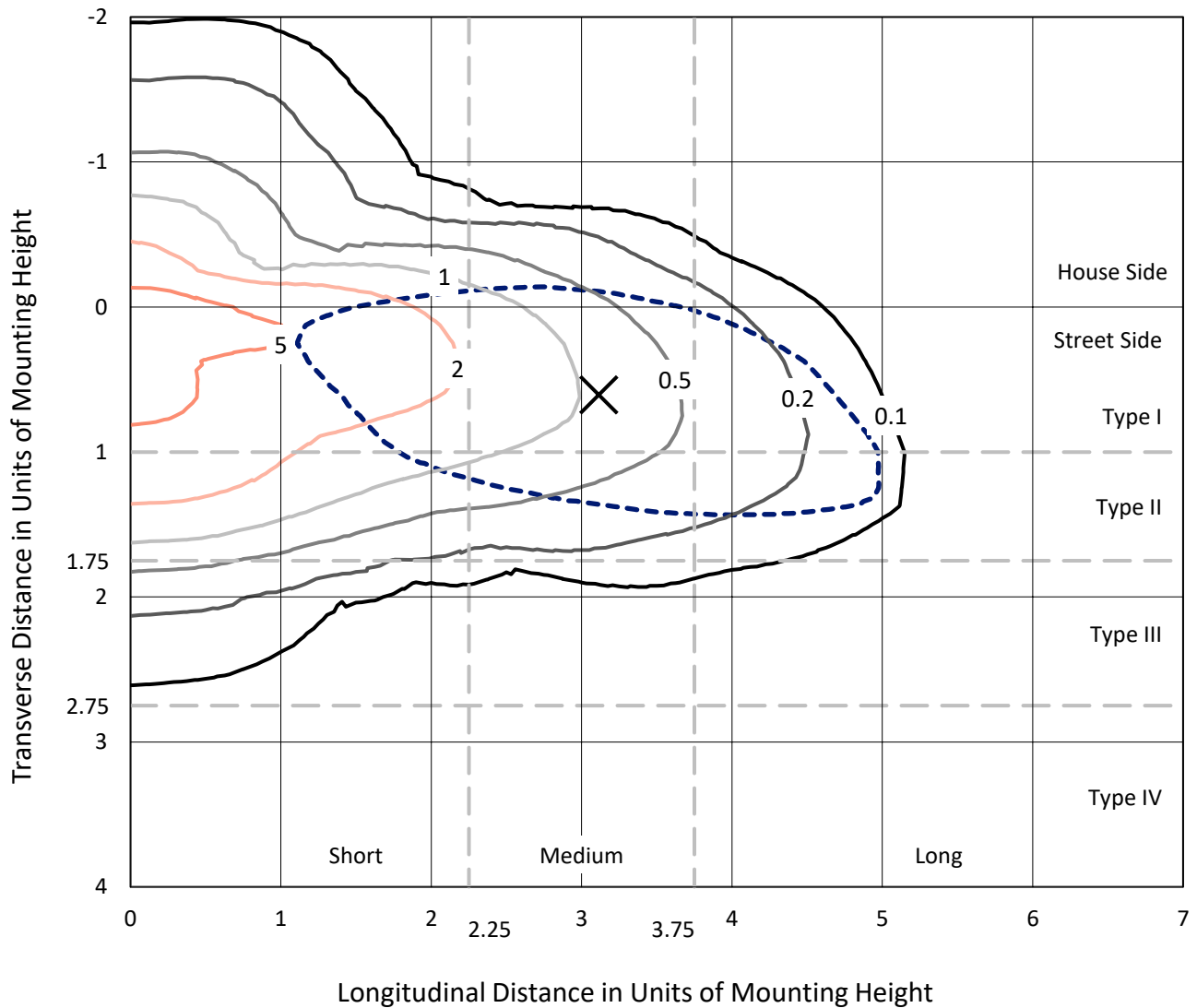
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

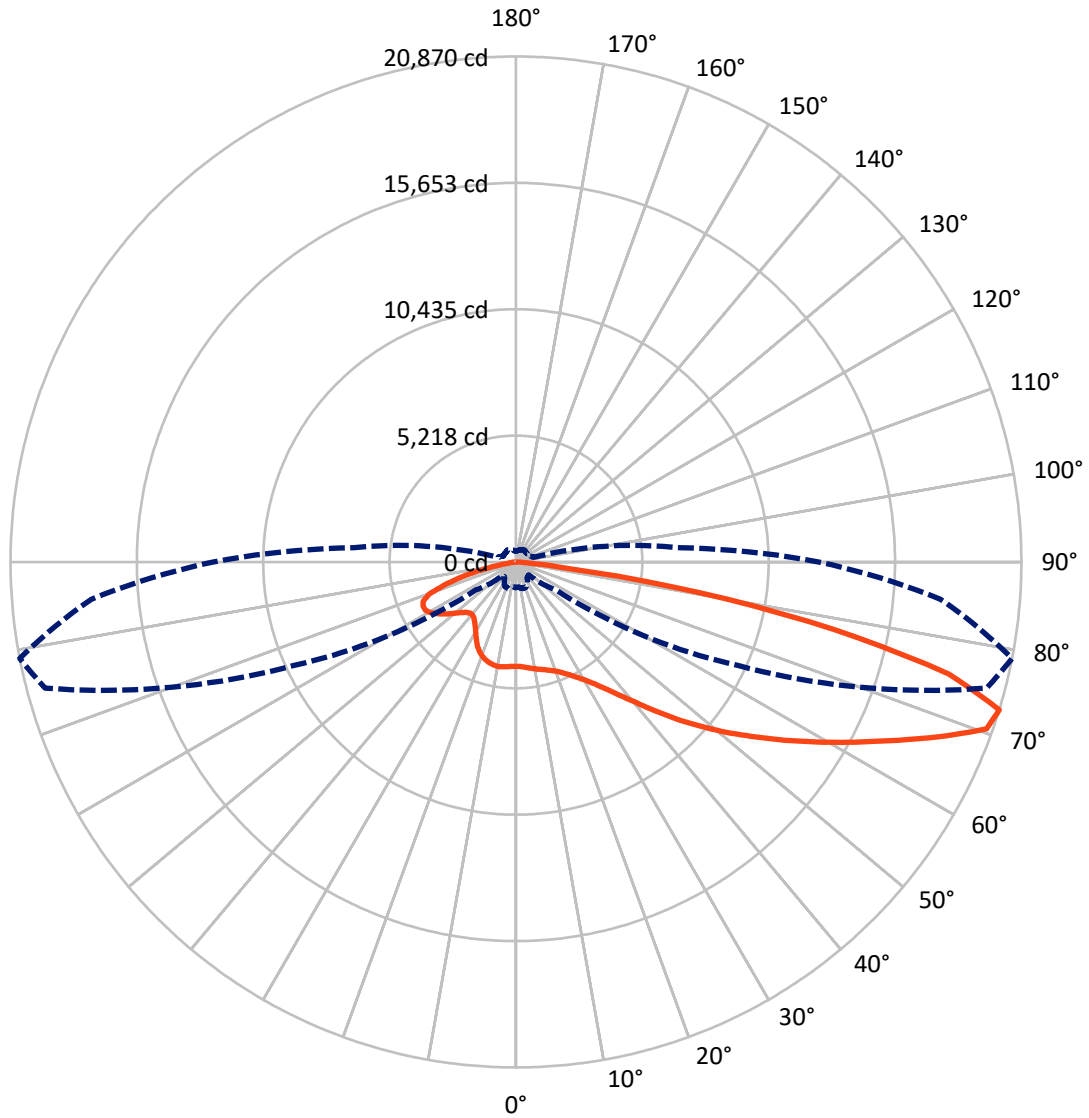
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	4721.5	0.0	4721.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16734.5	0.0	16734.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	21456.0	0.0	21456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	1.8
10°-20°	1022.2	4.8
20°-30°	1649.4	7.7
30°-40°	2475.4	11.5
40°-50°	3511.6	16.4
50°-60°	4434.6	20.7
60°-70°	4504.0	21.0
70°-80°	3069.7	14.3
80°-90°	398.3	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°	21456.0	100.0
0°-180°	21456.0	100.0

Coefficient of Utilization



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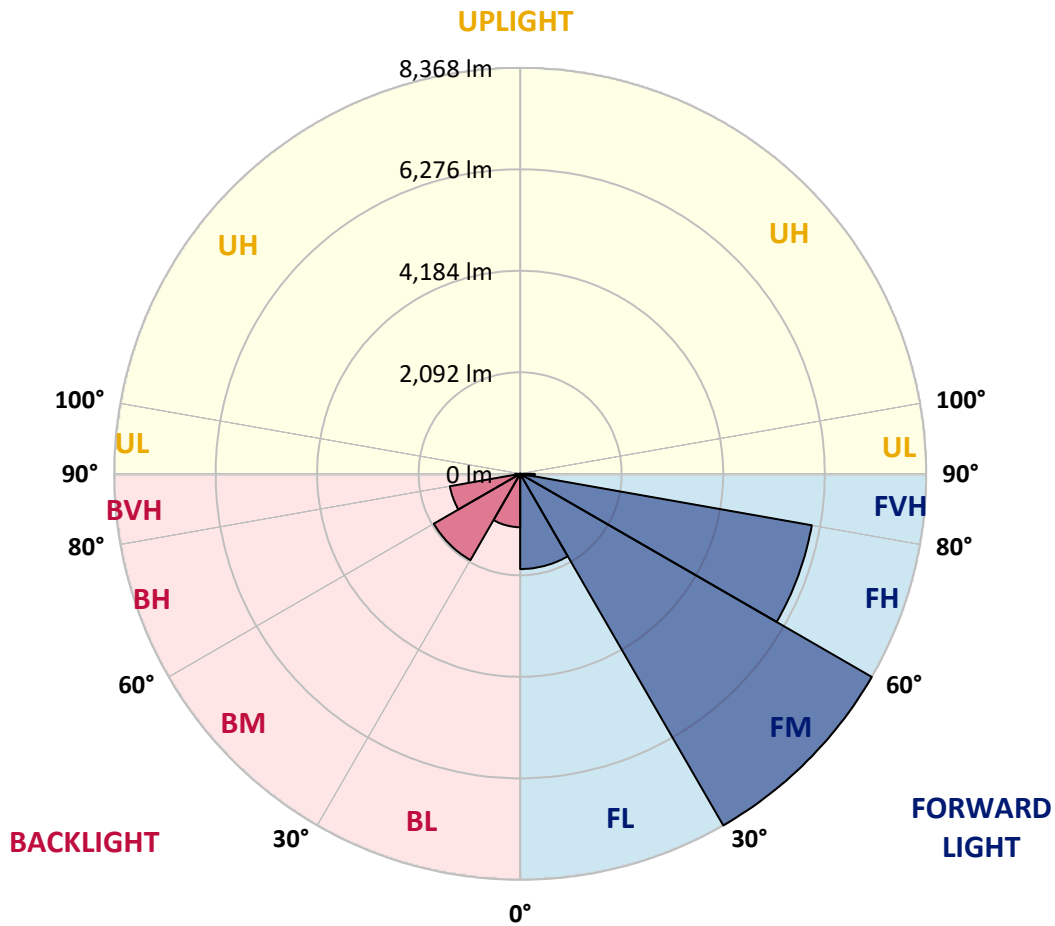
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1962.7	9.1			
FM (30°-60°)	8368.3	39.0			
FH (60°-80°)	6103.5	28.4			G3/7500
FVH (80°-90°)	300.0	1.4			G3/500
BL (0°-30°)	1099.8	5.1	B3/2500		
BM (30°-60°)	2053.4	9.6	B2/2500		
BH (60°-80°)	1470.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	98.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1
2.5°	4309.4	4288.9	4301.4	4296.9	4302.5	4309.4	4311.6	4315.0	4326.4	4325.2
5°	4300.3	4279.8	4296.9	4291.2	4306.0	4321.8	4335.5	4347.9	4366.1	4374.0
7.5°	4281.0	4267.4	4284.4	4301.4	4328.7	4352.5	4371.8	4400.2	4426.3	4430.8
10°	4168.6	4158.4	4198.1	4242.4	4317.3	4382.0	4424.0	4456.9	4485.3	4489.8
12.5°	4051.7	4039.2	4083.5	4143.7	4265.1	4382.0	4470.5	4513.6	4538.6	4553.4
15°	4032.4	4022.2	4047.2	4099.4	4200.4	4351.4	4502.3	4581.7	4603.3	4620.3
17.5°	4125.5	4106.2	4116.4	4134.6	4193.6	4323.0	4527.3	4658.9	4691.8	4710.0
20°	4341.1	4313.9	4298.0	4261.7	4251.5	4327.5	4525.0	4752.0	4795.1	4817.8
22.5°	4628.3	4610.1	4576.1	4484.1	4384.3	4383.1	4568.1	4871.2	4951.7	4973.3
25°	4975.6	4948.3	4905.2	4780.4	4588.6	4493.2	4640.8	5023.2	5158.3	5164.0
27.5°	5375.1	5334.2	5275.2	5110.6	4851.9	4665.7	4752.0	5198.0	5395.5	5393.2
30°	5796.1	5755.3	5692.8	5493.1	5167.4	4898.4	4906.3	5386.4	5677.0	5664.5
32.5°	6103.7	6073.1	6060.6	5906.2	5530.6	5173.0	5083.4	5595.2	6024.2	6012.9
35°	6339.8	6300.0	6314.8	6236.5	5926.6	5480.6	5300.2	5843.8	6446.4	6445.3
37.5°	6573.6	6538.4	6550.9	6498.7	6293.2	5871.0	5564.6	6148.0	6969.7	6994.6
40°	6786.9	6749.5	6799.4	6750.6	6578.1	6286.4	5865.4	6491.8	7575.7	7623.4
42.5°	6915.2	6885.7	6968.5	6969.7	6825.5	6637.1	6195.6	6870.9	8277.1	8383.8
45°	6959.4	6949.2	7074.1	7100.2	7044.6	6840.3	6493.0	7284.0	9033.0	9223.6
47.5°	6911.8	6892.5	7065.0	7161.5	7205.7	6935.6	6739.3	7731.2	9804.7	10083.9
50°	6671.2	6633.7	6890.2	7093.4	7251.1	6998.0	6987.8	8247.6	10682.0	10987.3
52.5°	6238.8	6210.4	6502.1	6855.0	7151.2	7028.7	7267.0	8811.7	11515.1	11910.0
55°	5686.0	5648.6	5969.8	6430.6	6902.7	7018.5	7546.2	9442.7	12497.9	12898.6
57.5°	4809.9	4735.0	5141.3	5686.0	6497.5	7006.0	7836.7	10070.3	13496.7	13976.8
60°	3531.9	3420.7	3918.9	4564.7	5705.3	6884.5	8196.5	10774.0	14695.2	15127.6
62.5°	2056.5	1991.8	2317.5	2920.2	4300.3	6169.5	8398.5	11592.3	15873.2	16327.2
65°	1596.9	1578.7	1607.1	1653.6	2393.6	4619.2	7775.5	12390.1	17371.4	17689.1
67.5°	1460.7	1447.0	1459.5	1372.1	1214.4	2572.9	6151.4	12592.1	18976.2	19169.1
70°	1298.4	1282.5	1323.3	1248.4	955.6	1170.1	3974.6	11859.0	20253.0	20615.0
72.5°	1057.8	1039.6	1134.9	1100.9	804.7	751.3	1996.4	10116.8	20119.0	20870.4
75°	812.6	802.4	915.9	944.3	656.0	591.3	957.9	7520.1	17705.0	18462.0
77.5°	631.0	623.1	681.0	784.2	528.9	458.5	589.0	4770.1	13342.3	13475.1
80°	473.3	450.6	503.9	607.2	412.0	334.8	399.5	2781.7	8433.7	7644.9
82.5°	296.2	284.9	329.1	405.2	290.5	230.4	259.9	1536.7	3379.8	1990.7
85°	169.1	164.6	179.3	231.5	157.8	132.8	148.7	678.7	617.4	424.5
87.5°	68.1	65.8	81.7	103.3	57.9	48.8	52.2	163.4	136.2	126.0
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°
4307.1	0°	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1	4307.1
4324.1	2.5°	4319.6	4319.6	4303.7	4278.7	4250.3	4232.2	4202.7	4194.7	4164.1	4155.0
4362.7	5°	4371.8	4362.7	4313.9	4243.5	4147.1	4058.5	3960.9	3899.6	3813.4	3782.7
4438.7	7.5°	4437.6	4412.6	4328.7	4174.3	3972.3	3773.7	3567.1	3410.5	3260.7	3207.3
4501.2	10°	4497.8	4462.6	4319.6	4049.5	3699.9	3356.0	3026.9	2796.5	2621.7	2550.2
4570.4	12.5°	4557.9	4493.2	4259.4	3841.8	3312.9	2846.4	2495.7	2316.4	2208.6	2122.3
4627.1	15°	4614.7	4523.9	4166.4	3563.7	2888.4	2415.1	2156.4	2013.4	1927.1	1870.4
4710.0	17.5°	4680.5	4550.0	4026.8	3210.7	2484.4	2116.7	1905.6	1819.3	1802.3	1795.5
4823.5	20°	4772.4	4573.8	3842.9	2815.8	2187.0	1878.3	1769.4	1761.4	1760.3	1756.9
4959.7	22.5°	4871.2	4602.2	3600.0	2457.1	1933.9	1729.6	1710.4	1694.5	1684.2	1683.1
5124.2	25°	4988.1	4611.3	3295.9	2163.2	1718.3	1659.3	1636.6	1612.7	1605.9	1605.9
5311.5	27.5°	5101.5	4580.6	2941.8	1907.8	1596.9	1594.6	1565.1	1557.1	1556.0	1559.4
5524.9	30°	5215.0	4522.7	2589.9	1671.8	1526.5	1526.5	1516.3	1522.0	1526.5	1537.8
5817.7	32.5°	5368.3	4461.4	2296.0	1497.0	1465.2	1453.9	1464.1	1475.4	1480.0	1494.7
6202.4	35°	5593.0	4418.3	2062.2	1401.6	1401.6	1386.9	1392.6	1390.3	1380.1	1373.3
6667.8	37.5°	5890.3	4416.0	1869.2	1357.4	1348.3	1346.0	1347.2	1332.4	1292.7	1245.0
7230.7	40°	6247.8	4477.3	1720.6	1326.7	1319.9	1333.6	1326.7	1287.0	1178.1	1095.2
7923.0	42.5°	6727.9	4652.1	1625.2	1289.3	1309.7	1326.7	1299.5	1162.2	1088.4	1032.8
8711.8	45°	7293.1	4935.8	1576.4	1249.6	1290.4	1310.9	1179.2	1119.0	1060.0	993.1
9572.1	47.5°	7933.2	5293.3	1565.1	1212.1	1247.3	1259.8	1128.1	1100.9	1033.9	961.3
10436.9	50°	8630.1	5716.7	1595.7	1167.9	1184.9	1141.7	1111.1	1086.1	1016.9	945.4
11323.3	52.5°	9350.8	6183.1	1657.0	1107.7	1122.5	1074.8	1104.3	1082.7	1006.7	910.2
12239.2	55°	10059.0	6653.0	1716.0	1037.3	1058.9	1014.6	1085.0	1069.1	960.2	851.2
13216.3	57.5°	10778.5	7120.6	1773.9	974.9	997.6	956.8	1054.4	1032.8	908.0	796.7
14283.2	60°	11526.4	7574.6	1801.1	914.8	930.6	903.4	1007.8	970.4	848.9	741.1
15331.9	62.5°	12226.7	7952.5	1756.9	854.6	864.8	853.5	946.5	896.6	789.9	678.7
16424.8	65°	12929.2	8177.2	1620.7	795.6	797.9	792.2	860.3	817.2	720.7	624.2
17381.6	67.5°	13565.9	8303.2	1403.9	732.0	726.4	724.1	779.7	730.9	653.7	569.7
18109.1	70°	13701.0	7983.2	1072.5	657.1	657.1	651.5	691.2	641.2	580.0	511.9
17588.1	72.5°	12513.8	6715.4	761.5	572.0	581.1	569.7	602.7	560.7	505.0	459.6
15158.2	75°	10090.7	4924.5	553.8	484.6	500.5	481.2	511.9	482.3	434.7	433.5
10446.0	77.5°	6933.3	3045.0	401.8	399.5	410.8	385.9	421.1	405.2	362.0	342.8
4546.6	80°	2958.8	1214.4	292.8	308.7	308.7	286.0	326.9	331.4	293.9	284.9
877.3	82.5°	589.0	345.0	205.4	212.2	199.7	192.9	231.5	256.5	354.1	393.8
264.4	85°	177.1	127.1	123.7	115.8	102.1	103.3	136.2	257.6	317.8	181.6
87.4	87.5°	48.8	31.8	32.9	26.1	21.6	28.4	46.5	195.2	106.7	45.4
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>
4307.1
4169.8
3805.4
3214.1
2566.1
2150.7
1880.6
1800.0
1768.2
1695.6
1612.7
1568.5
1545.8
1507.2
1389.2
1246.2
1092.9
1030.5
988.5
955.6
937.5
903.4
845.5
794.5
737.7
677.6
617.4
562.9
509.6
446.0
390.4
321.2
284.9
395.0
156.6
38.6
0.0

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