

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: P949542

Luminaire Tested: **GALN-SB4B-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22056 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

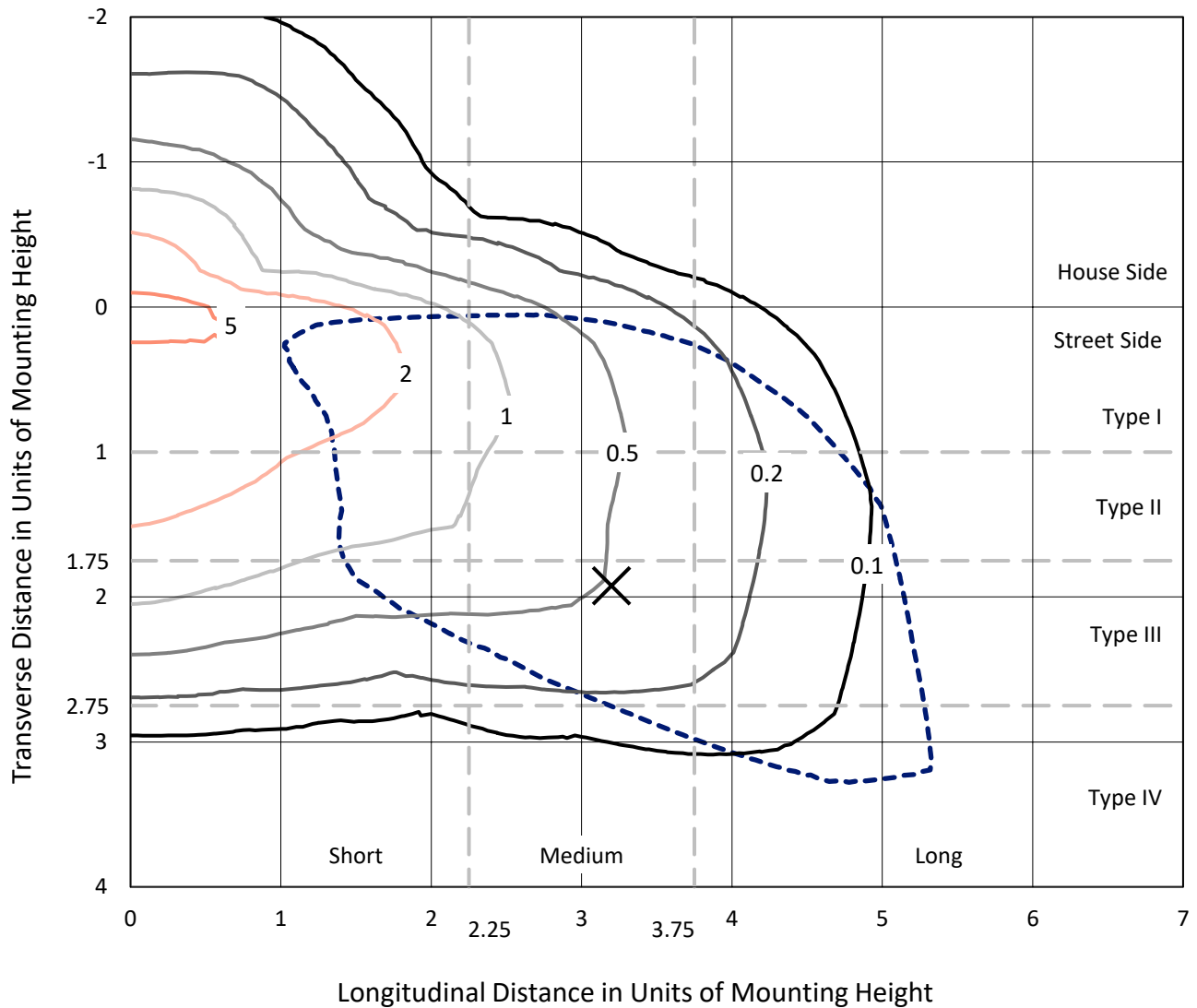
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

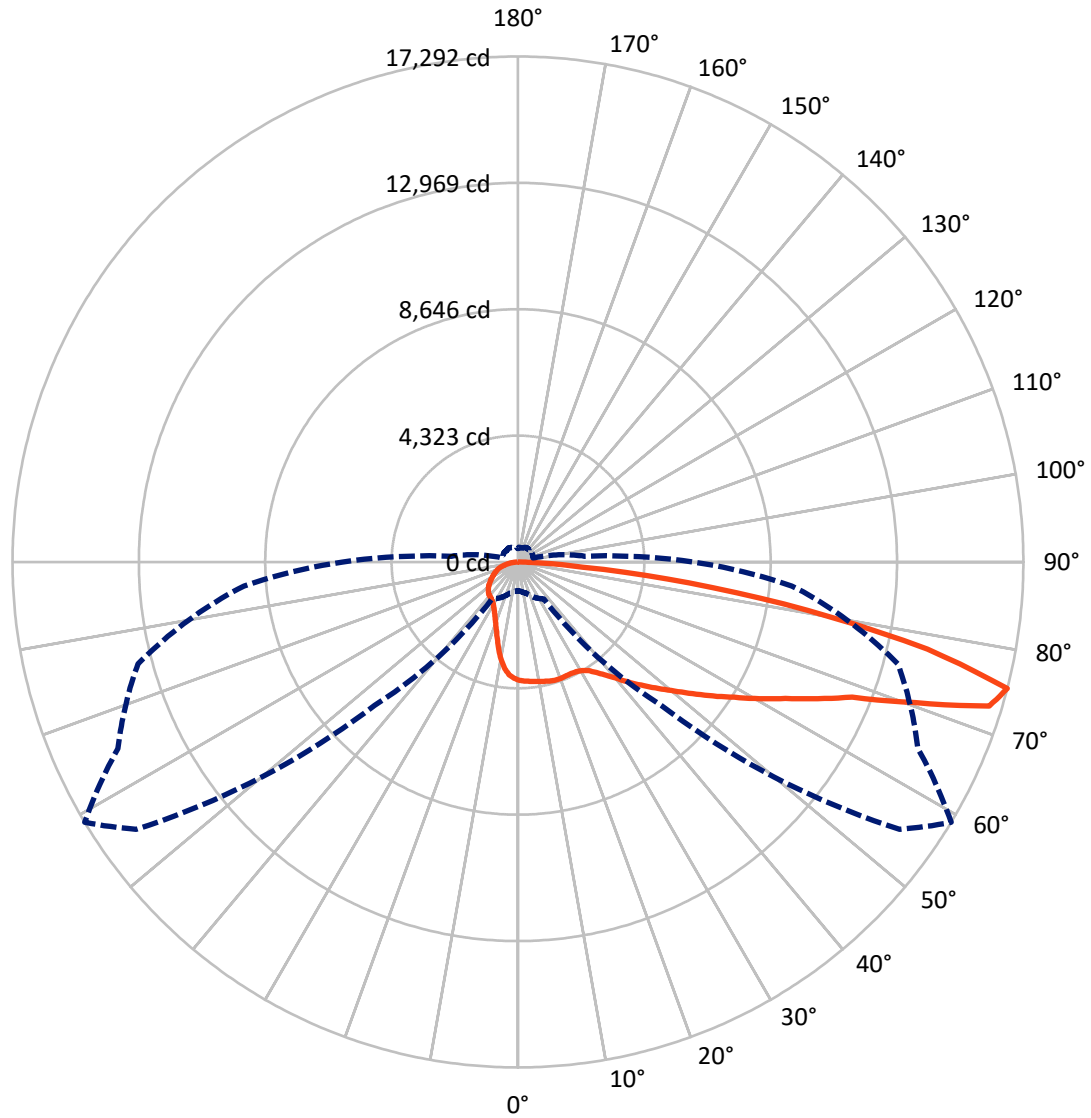
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4136.8	0.0	4136.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17919.3	0.0	17919.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	22056.0	0.0	22056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	1.6
10°-20°	927.8	4.2
20°-30°	1409.3	6.4
30°-40°	2094.9	9.5
40°-50°	3115.5	14.1
50°-60°	4228.9	19.2
60°-70°	5162.8	23.4
70°-80°	4051.7	18.4
80°-90°	701.9	3.2
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°	22056.0	100.0
0°-180°	22056.0	100.0

Coefficient of Utilization



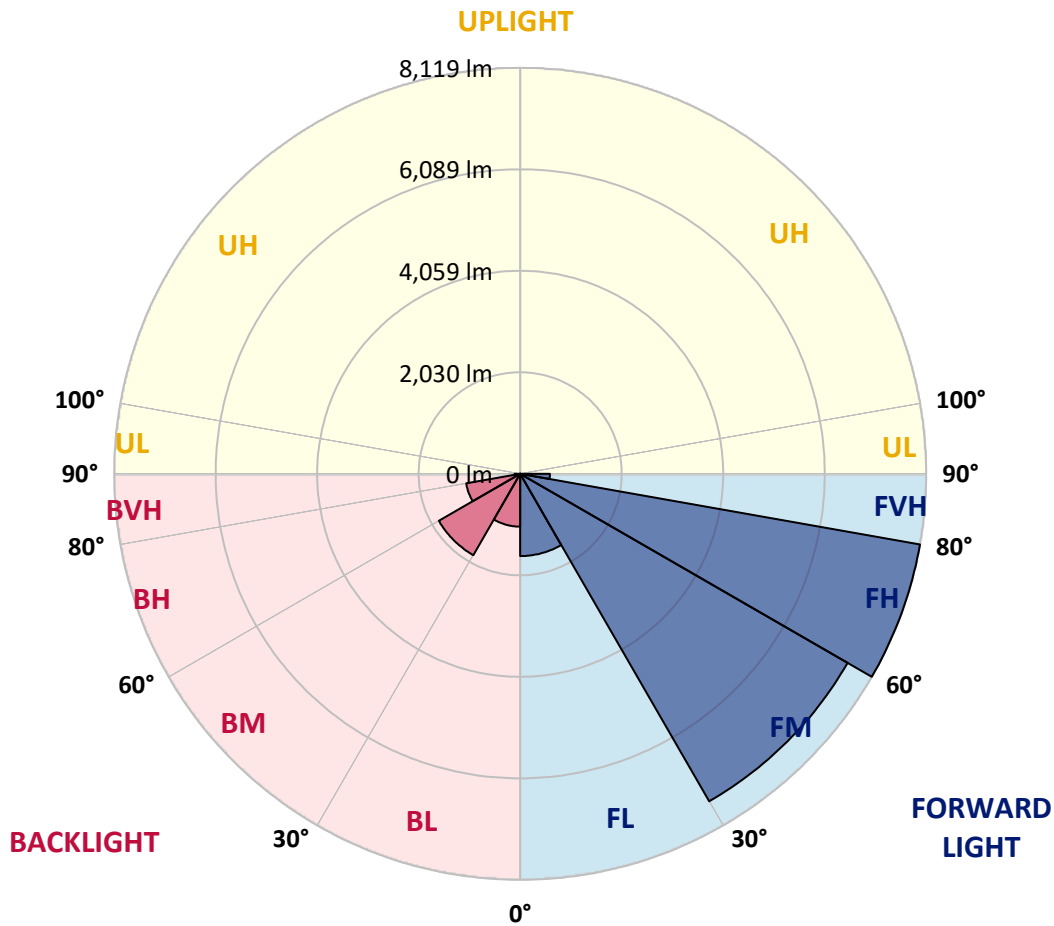
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1644.5	7.5			
FM (30°-60°)	7561.7	34.3			
FH (60°-80°)	8118.6	36.8			G4/12000
FVH (80°-90°)	594.4	2.7			G4/750
BL (0°-30°)	1055.7	4.8	B3/2500		
BM (30°-60°)	1877.7	8.5	B2/2500		
BH (60°-80°)	1096.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	107.4	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3
2.5°	4082.7	4068.5	4082.7	4076.8	4074.4	4069.7	4070.9	4079.2	4074.4	4080.4
5°	4055.4	4047.1	4061.4	4057.8	4073.2	4075.6	4091.0	4100.5	4106.5	4107.7
7.5°	4010.4	4002.1	4022.2	4038.8	4072.1	4081.6	4113.6	4129.0	4137.3	4151.6
10°	3845.4	3841.9	3891.7	3954.6	4032.9	4081.6	4130.2	4156.3	4169.4	4207.3
12.5°	3553.6	3558.3	3623.6	3744.6	3901.2	4057.8	4149.2	4187.1	4207.3	4254.8
15°	3274.7	3273.5	3344.7	3474.1	3693.6	3953.4	4158.7	4223.9	4258.3	4328.3
17.5°	3113.4	3108.6	3158.5	3256.9	3461.0	3793.2	4134.9	4244.1	4317.7	4405.5
20°	3083.7	3074.2	3100.3	3149.0	3293.7	3617.6	4073.2	4244.1	4365.1	4479.0
22.5°	3191.7	3176.3	3165.6	3159.6	3223.7	3472.9	4003.2	4229.9	4435.1	4584.6
25°	3408.8	3385.1	3330.5	3277.1	3258.1	3407.6	3941.5	4226.3	4539.5	4727.0
27.5°	3760.0	3730.3	3620.0	3491.9	3376.8	3440.8	3914.3	4247.7	4654.6	4877.7
30°	4195.5	4163.4	4024.6	3827.6	3621.2	3564.2	3948.7	4310.5	4801.8	5078.2
32.5°	4585.8	4550.2	4431.6	4231.1	3952.2	3777.8	4057.8	4430.4	5033.1	5357.0
35°	4932.3	4890.7	4784.0	4598.9	4358.0	4078.0	4254.8	4642.8	5361.8	5810.3
37.5°	5271.6	5223.0	5106.7	4910.9	4742.4	4477.8	4526.5	4915.7	5798.4	6360.8
40°	5651.3	5581.3	5440.1	5246.7	5083.0	4946.5	4883.6	5250.3	6242.2	6975.4
42.5°	6019.1	5952.7	5784.2	5619.3	5414.0	5374.8	5297.7	5641.8	6727.4	7650.5
45°	6415.4	6335.9	6131.8	5923.0	5793.7	5659.6	5698.7	6033.3	7203.2	8338.7
47.5°	6786.8	6697.8	6456.9	6224.4	6153.2	5899.3	6066.6	6464.0	7698.0	9036.4
50°	6987.3	6899.5	6699.0	6489.0	6433.2	6194.7	6465.2	6937.5	8216.5	9731.7
52.5°	7154.6	7059.7	6797.4	6681.2	6664.6	6516.2	6956.4	7478.5	8735.0	10346.3
55°	7332.6	7227.0	6892.4	6788.0	6863.9	6876.9	7539.0	8091.9	9283.2	10945.4
57.5°	7537.8	7403.7	6983.7	6878.1	7058.5	7299.3	8208.2	8727.9	9821.8	11500.7
60°	7731.2	7596.0	7159.3	7021.7	7268.5	7789.4	8975.9	9497.9	10431.7	11995.5
62.5°	7769.2	7657.7	7299.3	7298.1	7553.2	8361.2	9884.7	10275.1	10964.4	12484.3
65°	7111.9	7041.9	6829.5	7287.5	7961.4	9184.7	10896.8	11269.4	11641.9	12911.5
67.5°	5412.8	5422.3	5406.9	6290.8	7631.6	10367.6	12362.1	12333.6	12478.4	13390.8
70°	2475.0	2530.8	2893.9	4342.6	6114.0	10504.1	14784.9	14415.9	13528.4	14011.3
72.5°	1337.2	1379.9	1528.2	2103.7	3675.8	9338.9	16595.5	16857.8	14925.0	14429.0
75°	981.2	1005.0	1108.2	1337.2	1543.6	6941.0	15946.5	17292.0	15099.4	13454.9
77.5°	734.4	745.1	829.4	1059.5	790.2	3659.2	12741.8	14321.0	12925.7	11054.6
80°	532.7	544.6	607.5	795.0	554.1	1338.4	8749.2	10052.0	8852.5	7046.6
82.5°	367.8	372.6	399.8	541.0	386.8	519.7	4964.3	5894.5	4941.8	2472.7
85°	221.9	227.8	239.7	315.6	219.5	246.8	2142.8	2216.4	1477.2	590.9
87.5°	91.4	97.3	106.8	132.9	86.6	68.8	353.6	443.8	276.5	173.2
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°
4048.3	0°	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3	4048.3
4060.2	2.5°	4054.3	4046.0	4023.4	3992.6	3964.1	3928.5	3913.1	3900.0	3888.2	3865.6
4092.2	5°	4079.2	4056.6	3996.1	3917.8	3828.8	3731.5	3636.6	3571.4	3515.6	3474.1
4129.0	7.5°	4117.1	4074.4	3964.1	3803.9	3599.8	3391.0	3202.4	3068.3	2967.4	2930.6
4181.2	10°	4156.3	4105.3	3913.1	3630.7	3278.3	2956.8	2706.4	2568.8	2488.1	2462.0
4242.9	12.5°	4202.6	4127.8	3833.6	3389.8	2918.8	2566.4	2348.1	2267.4	2225.9	2211.6
4318.9	15°	4270.2	4146.8	3713.7	3088.5	2575.9	2281.6	2140.4	2084.7	2063.3	2062.1
4397.2	17.5°	4321.2	4150.4	3527.5	2765.7	2312.5	2109.6	1993.3	1972.0	1986.2	2007.6
4474.3	20°	4378.2	4118.3	3283.0	2471.5	2127.4	1958.9	1910.3	1924.5	1958.9	1989.8
4576.3	22.5°	4418.5	4060.2	2987.6	2242.5	1967.2	1872.3	1869.9	1899.6	1918.6	1934.0
4696.2	25°	4454.1	3961.7	2674.4	2050.3	1835.5	1820.1	1846.2	1836.7	1823.6	1836.7
4816.0	27.5°	4480.2	3806.3	2394.4	1881.8	1743.0	1784.5	1769.1	1747.7	1746.5	1753.6
4957.2	30°	4471.9	3598.6	2164.2	1721.6	1677.7	1718.0	1681.3	1677.7	1674.1	1677.7
5169.6	32.5°	4471.9	3362.5	1987.4	1611.3	1636.2	1620.8	1617.2	1608.9	1594.7	1593.5
5457.9	35°	4496.8	3126.4	1835.5	1551.9	1601.8	1565.0	1567.4	1547.2	1517.5	1503.3
5839.9	37.5°	4547.8	2936.6	1684.8	1523.5	1541.3	1540.1	1530.6	1496.2	1444.0	1398.9
6316.9	40°	4671.2	2880.8	1581.6	1510.4	1512.8	1527.0	1502.1	1435.7	1317.0	1243.4
6801.0	42.5°	4864.6	2974.5	1559.1	1478.4	1493.8	1508.0	1459.4	1305.1	1220.9	1177.0
7308.8	45°	5110.2	3138.3	1607.7	1432.1	1448.7	1473.6	1328.9	1255.3	1217.3	1218.5
7811.9	47.5°	5421.1	3310.3	1697.9	1391.8	1383.5	1397.7	1242.3	1197.2	1145.0	1158.0
8294.8	50°	5780.6	3484.7	1783.3	1337.2	1311.1	1264.8	1186.5	1143.8	1077.3	1046.5
8761.1	52.5°	6169.8	3653.2	1817.7	1270.7	1232.8	1179.4	1148.5	1096.3	1015.6	964.6
9201.3	55°	6538.8	3806.3	1779.7	1191.2	1154.5	1112.9	1108.2	1076.2	989.5	918.3
9592.8	57.5°	6887.6	3934.4	1684.8	1110.6	1075.0	1050.1	1082.1	1066.7	957.5	866.1
9963.0	60°	7183.1	4022.2	1547.2	1028.7	1003.8	990.7	1039.4	1034.6	912.4	810.4
10295.2	62.5°	7418.0	4056.6	1395.3	950.4	944.5	920.7	980.0	980.0	855.5	755.8
10587.1	65°	7601.9	4023.4	1241.1	873.3	885.1	849.5	907.7	900.6	795.0	707.2
10922.9	67.5°	7764.4	3914.3	1070.2	797.3	824.6	779.5	831.7	815.1	728.5	658.5
11213.6	70°	7836.8	3660.3	875.6	721.4	754.6	710.7	755.8	725.0	653.8	606.3
10894.4	72.5°	7255.4	3042.2	689.4	641.9	670.4	634.8	673.9	638.3	573.1	551.7
9407.7	75°	6002.5	2282.8	530.4	555.3	576.6	549.3	575.5	549.3	490.0	505.4
6949.3	77.5°	4359.2	1541.3	405.8	463.9	473.4	459.2	481.7	452.1	398.7	395.1
3463.4	80°	2167.7	902.9	318.0	366.6	363.1	353.6	379.7	365.4	320.4	339.3
935.0	82.5°	627.7	386.8	231.4	257.5	250.4	252.7	271.7	278.8	417.6	414.1
290.7	85°	197.0	151.9	138.8	143.6	136.4	140.0	160.2	318.0	294.3	172.0
90.2	87.5°	51.0	52.2	34.4	36.8	38.0	45.1	51.0	193.4	92.5	60.5
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>
4048.3
3854.9
3439.7
2866.6
2421.6
2215.2
2066.9
2015.9
2000.4
1942.3
1845.0
1765.5
1690.8
1608.9
1517.5
1414.3
1252.9
1177.0
1224.5
1191.2
1054.8
963.4
918.3
861.4
806.8
752.2
702.4
653.8
596.8
533.9
461.5
377.3
335.8
423.6
186.3
64.1
0.0

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