

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: P950613

Luminaire Tested: **GALN-SB5A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950613
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-SB5A-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22146 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

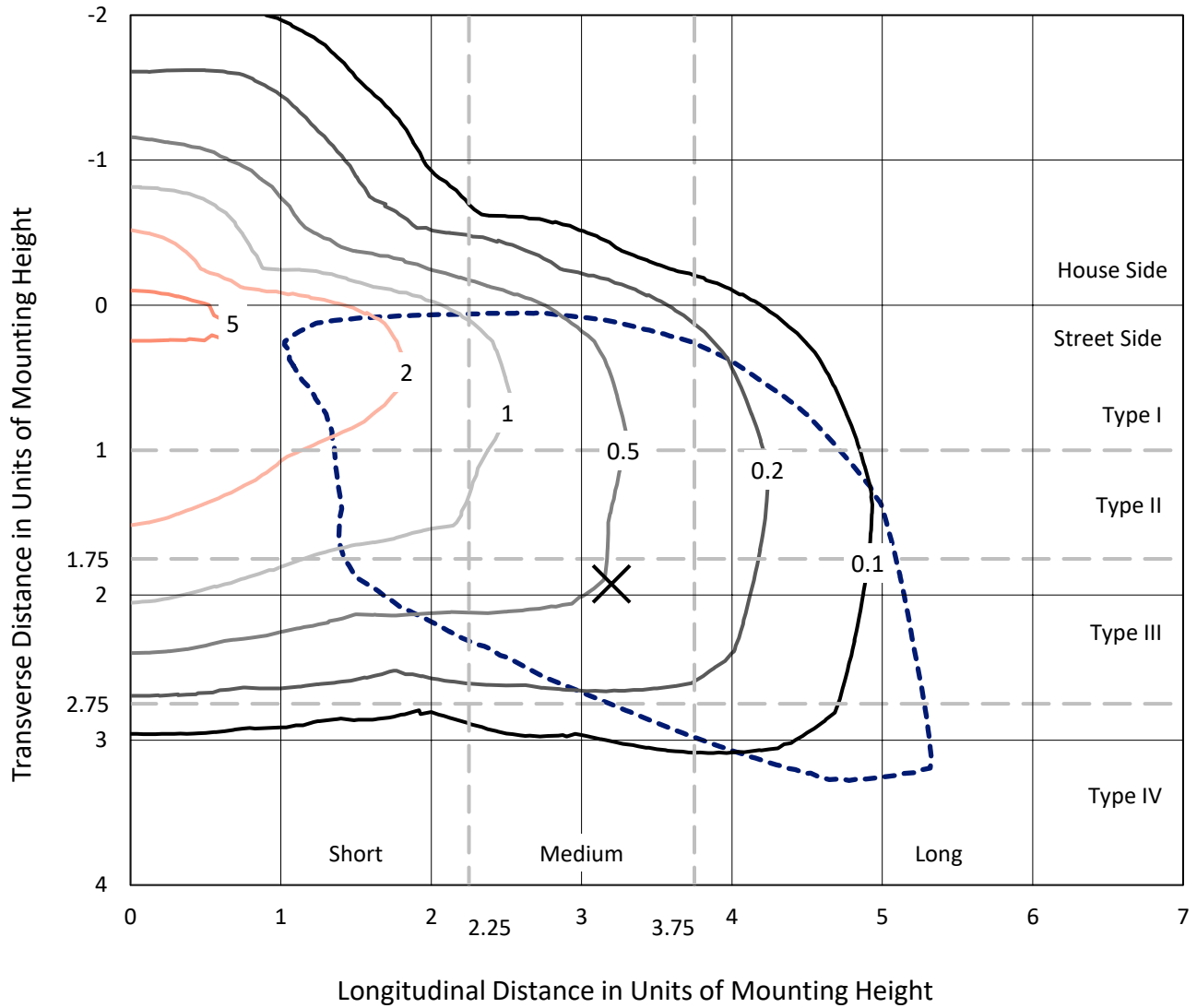
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

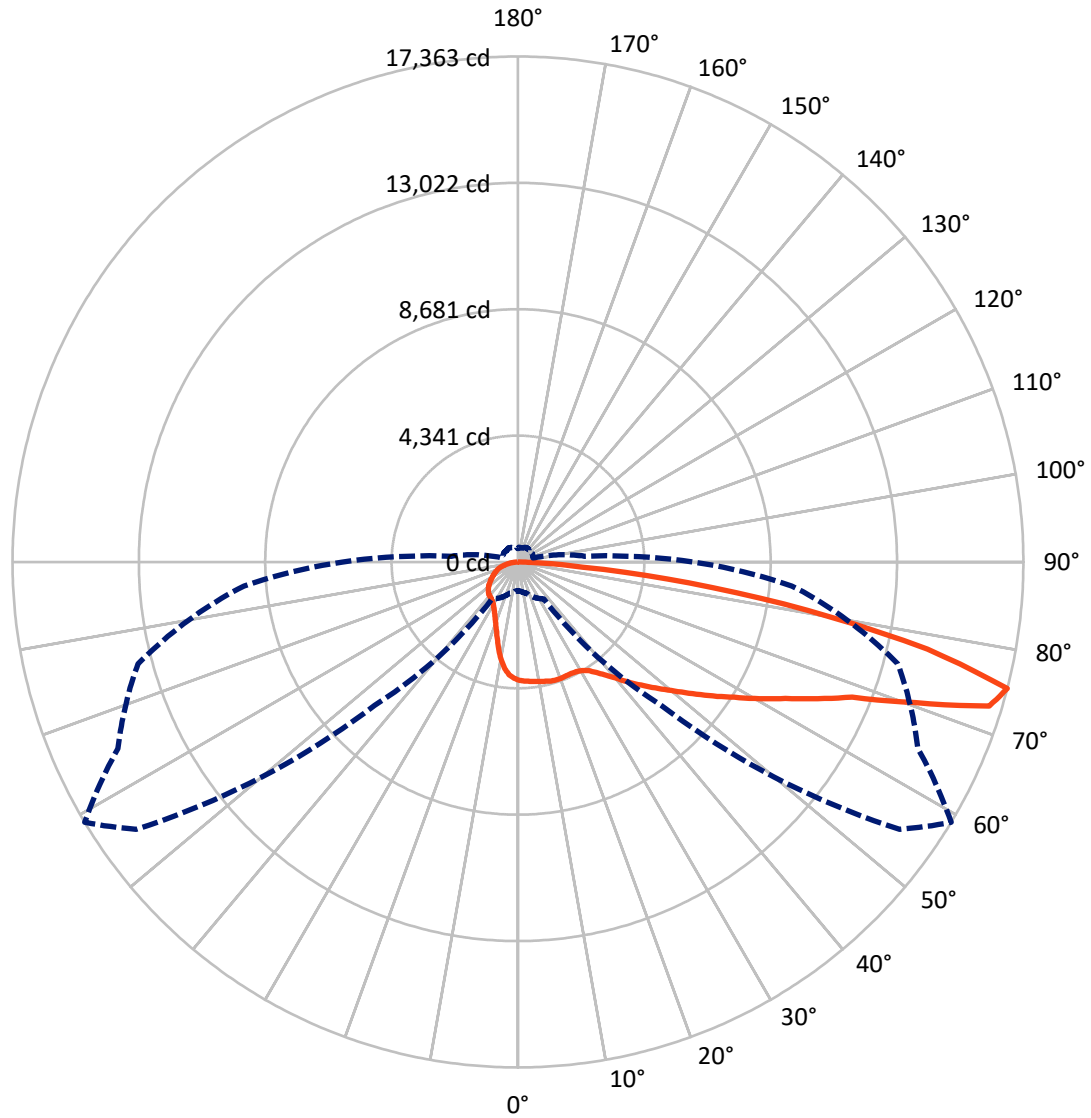
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4153.6	0.0	4153.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	17992.4	0.0	17992.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	22146.0	0.0	22146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.5	1.6
10°-20°	931.6	4.2
20°-30°	1415.1	6.4
30°-40°	2103.5	9.5
40°-50°	3128.2	14.1
50°-60°	4246.2	19.2
60°-70°	5183.9	23.4
70°-80°	4068.3	18.4
80°-90°	704.7	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°	22146.0	100.0
0°-180°	22146.0	100.0



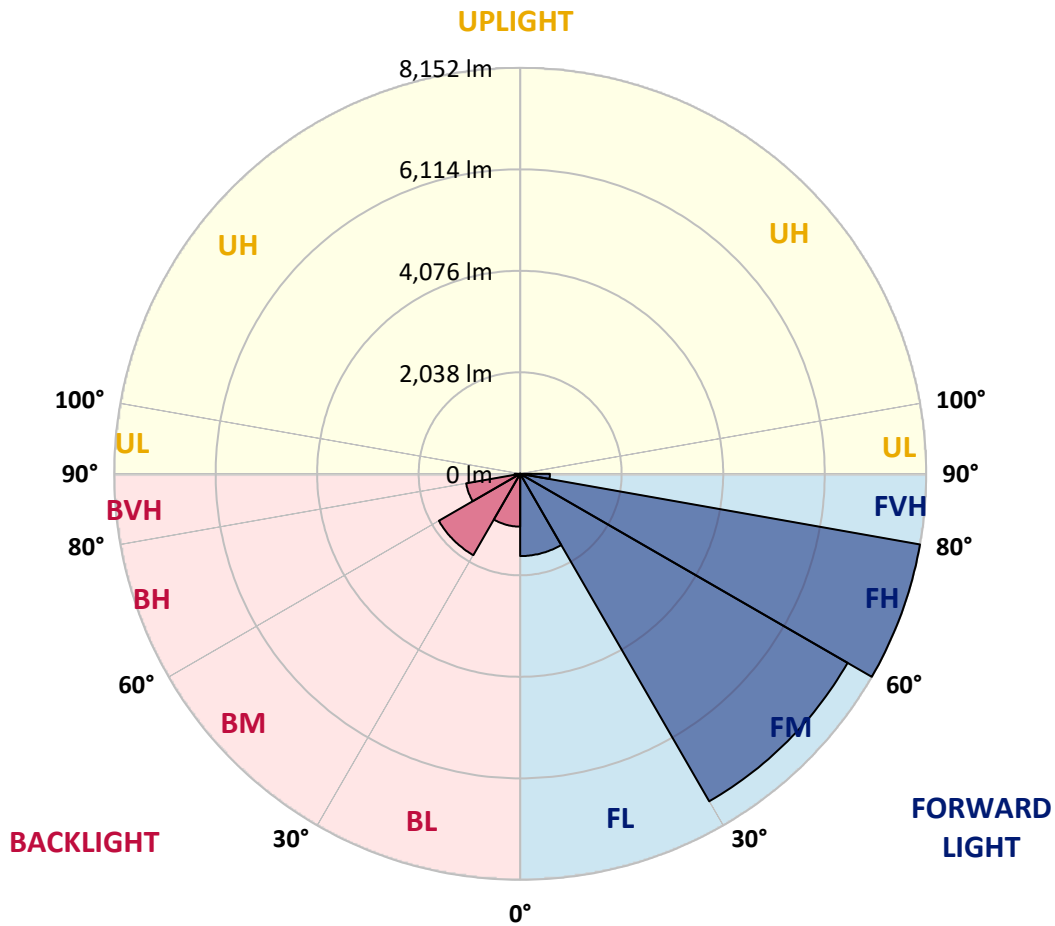
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.2	7.5			
FM (30°-60°)	7592.6	34.3			
FH (60°-80°)	8151.7	36.8			G4/12000
FVH (80°-90°)	596.9	2.7			G4/750
BL (0°-30°)	1060.0	4.8	B3/2500		
BM (30°-60°)	1885.3	8.5	B2/2500		
BH (60°-80°)	1100.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	107.9	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



REPORT NUMBER: P950613

CATALOG NUMBER: GALN-SB5A-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8
2.5°	4099.4	4085.1	4099.4	4093.4	4091.1	4086.3	4087.5	4095.8	4091.1	4097.0
5°	4072.0	4063.7	4078.0	4074.4	4089.9	4092.2	4107.7	4117.3	4123.2	4124.4
7.5°	4026.7	4018.4	4038.6	4055.3	4088.7	4098.2	4130.4	4145.9	4154.2	4168.5
10°	3861.1	3857.6	3907.6	3970.7	4049.4	4098.2	4147.1	4173.3	4186.4	4224.5
12.5°	3568.1	3572.8	3638.3	3759.9	3917.1	4074.4	4166.1	4204.2	4224.5	4272.1
15°	3288.1	3286.9	3358.4	3488.2	3708.6	3969.5	4175.6	4241.2	4275.7	4346.0
17.5°	3126.1	3121.3	3171.3	3270.2	3475.1	3808.7	4151.8	4261.4	4335.3	4423.4
20°	3096.3	3086.8	3113.0	3161.8	3307.2	3632.4	4089.9	4261.4	4382.9	4497.3
22.5°	3204.7	3189.2	3178.5	3172.5	3236.9	3487.0	4019.6	4247.1	4453.2	4603.3
25°	3422.7	3398.9	3344.1	3290.5	3271.4	3421.5	3957.6	4243.5	4558.1	4746.3
27.5°	3775.4	3745.6	3634.8	3506.1	3390.6	3454.9	3930.2	4265.0	4673.6	4897.6
30°	4212.6	4180.4	4041.0	3843.3	3636.0	3578.8	3964.8	4328.1	4821.3	5098.9
32.5°	4604.5	4568.8	4449.7	4248.3	3968.4	3793.2	4074.4	4448.5	5053.7	5378.9
35°	4952.4	4910.7	4803.5	4617.6	4375.8	4094.6	4272.1	4661.7	5383.7	5834.0
37.5°	5293.1	5244.3	5127.5	4931.0	4761.8	4496.1	4545.0	4935.7	5822.1	6386.8
40°	5674.3	5604.1	5462.3	5268.1	5103.7	4966.7	4903.6	5271.7	6267.6	7003.9
42.5°	6043.7	5976.9	5807.8	5642.2	5436.1	5396.8	5319.3	5664.8	6754.9	7681.8
45°	6441.6	6361.8	6156.8	5947.2	5817.3	5682.7	5722.0	6058.0	7232.6	8372.7
47.5°	6814.5	6725.1	6483.3	6249.8	6178.3	5923.3	6091.3	6490.4	7729.4	9073.2
50°	7015.8	6927.6	6726.3	6515.4	6459.4	6220.0	6491.6	6965.8	8250.0	9771.4
52.5°	7183.8	7088.5	6825.2	6708.4	6691.8	6542.8	6984.8	7509.0	8770.6	10388.5
55°	7362.5	7256.4	6920.5	6815.7	6891.9	6905.0	7569.8	8124.9	9321.0	10990.1
57.5°	7568.6	7434.0	7012.2	6906.2	7087.3	7329.1	8241.7	8763.5	9861.9	11547.6
60°	7762.8	7627.0	7188.5	7050.3	7298.1	7821.1	9012.5	9536.7	10474.3	12044.4
62.5°	7800.9	7688.9	7329.1	7327.9	7584.1	8395.4	9925.0	10317.0	11009.2	12535.3
65°	7140.9	7070.6	6857.3	7317.2	7993.9	9222.2	10941.3	11315.3	11689.4	12964.2
67.5°	5434.9	5444.4	5428.9	6316.5	7662.7	10409.9	12412.6	12384.0	12529.3	13445.5
70°	2485.1	2541.1	2905.7	4360.3	6139.0	10546.9	14845.3	14474.8	13583.6	14068.5
72.5°	1342.6	1385.5	1534.4	2112.2	3690.8	9377.0	16663.3	16926.5	14985.9	14487.9
75°	985.2	1009.1	1112.7	1342.6	1549.9	6969.3	16011.6	17362.6	15161.0	13509.8
77.5°	737.4	748.2	832.7	1063.9	793.4	3674.1	12793.8	14379.5	12978.4	11099.7
80°	534.9	546.8	610.0	798.2	556.4	1343.8	8784.9	10093.0	8888.6	7075.4
82.5°	369.3	374.1	401.5	543.3	388.4	521.8	4984.6	5918.6	4961.9	2482.8
85°	222.8	228.7	240.7	316.9	220.4	247.8	2151.6	2225.4	1483.2	593.3
87.5°	91.7	97.7	107.2	133.4	87.0	69.1	355.0	445.6	277.6	173.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950613
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4064.8	0°	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8	4064.8
4076.8	2.5°	4070.8	4062.5	4039.8	4008.9	3980.3	3944.5	3929.0	3915.9	3904.0	3881.4
4108.9	5°	4095.8	4073.2	4012.4	3933.8	3844.5	3746.8	3651.5	3585.9	3529.9	3488.2
4145.9	7.5°	4133.9	4091.1	3980.3	3819.4	3614.5	3404.8	3215.4	3080.8	2979.5	2942.6
4198.3	10°	4173.3	4122.0	3929.0	3645.5	3291.7	2968.8	2717.4	2579.2	2498.2	2472.0
4260.2	12.5°	4219.7	4144.7	3849.2	3403.7	2930.7	2576.9	2357.7	2276.6	2235.0	2220.7
4336.5	15°	4287.6	4163.7	3728.9	3101.1	2586.4	2290.9	2149.2	2093.2	2071.7	2070.5
4415.1	17.5°	4338.9	4167.3	3541.9	2777.0	2321.9	2118.2	2001.4	1980.0	1994.3	2015.7
4492.5	20°	4396.0	4135.1	3296.4	2481.6	2136.1	1966.9	1918.1	1932.4	1966.9	1997.9
4595.0	22.5°	4436.5	4076.8	2999.8	2251.6	1975.2	1879.9	1877.6	1907.3	1926.4	1941.9
4715.3	25°	4472.3	3977.9	2685.3	2058.6	1843.0	1827.5	1853.7	1844.2	1831.1	1844.2
4835.6	27.5°	4498.5	3821.8	2404.1	1889.5	1750.1	1791.8	1776.3	1754.8	1753.7	1760.8
4977.4	30°	4490.2	3613.3	2173.0	1728.6	1684.6	1725.1	1688.1	1684.6	1681.0	1684.6
5190.7	32.5°	4490.2	3376.3	1995.5	1617.8	1642.9	1627.4	1623.8	1615.5	1601.2	1600.0
5480.2	35°	4515.2	3139.2	1843.0	1558.3	1608.3	1571.4	1573.8	1553.5	1523.7	1509.4
5863.8	37.5°	4566.4	2948.6	1691.7	1529.7	1547.5	1546.4	1536.8	1502.3	1449.9	1404.6
6342.7	40°	4690.3	2892.6	1588.1	1516.6	1519.0	1533.3	1508.2	1441.5	1322.4	1248.5
6828.8	42.5°	4884.5	2986.7	1565.4	1484.4	1499.9	1514.2	1465.3	1310.5	1225.9	1181.8
7338.6	45°	5131.1	3151.1	1614.3	1437.9	1454.6	1479.6	1334.3	1260.4	1222.3	1223.5
7843.8	47.5°	5443.2	3323.8	1704.8	1397.4	1389.1	1403.4	1247.3	1202.1	1149.6	1162.7
8328.7	50°	5804.2	3499.0	1790.6	1342.6	1316.4	1270.0	1191.3	1148.5	1081.7	1050.8
8796.8	52.5°	6195.0	3668.1	1825.1	1275.9	1237.8	1184.2	1153.2	1100.8	1019.8	968.6
9238.8	55°	6565.5	3821.8	1787.0	1196.1	1159.2	1117.5	1112.7	1080.5	993.6	922.1
9632.0	57.5°	6915.7	3950.5	1691.7	1115.1	1079.4	1054.3	1086.5	1071.0	961.4	869.7
10003.7	60°	7212.4	4038.6	1553.5	1032.9	1007.9	994.8	1043.6	1038.8	916.1	813.7
10337.2	62.5°	7448.3	4073.2	1401.0	954.3	948.3	924.5	984.0	984.0	859.0	758.9
10630.3	65°	7632.9	4039.8	1246.1	876.8	888.7	853.0	911.4	904.2	798.2	710.0
10967.5	67.5°	7796.1	3930.2	1074.6	800.6	828.0	782.7	835.1	818.4	731.5	661.2
11259.3	70°	7868.8	3675.3	879.2	724.3	757.7	713.6	758.9	727.9	656.4	608.8
10938.9	72.5°	7285.0	3054.6	692.2	644.5	673.1	637.4	676.7	640.9	575.4	554.0
9446.1	75°	6027.0	2292.1	532.5	557.5	579.0	551.6	577.8	551.6	492.0	507.5
6977.7	77.5°	4377.0	1547.5	407.4	465.8	475.3	461.0	483.7	453.9	400.3	396.7
3477.5	80°	2176.6	906.6	319.3	368.1	364.5	355.0	381.2	366.9	321.7	340.7
938.8	82.5°	630.2	388.4	232.3	258.5	251.4	253.8	272.8	280.0	419.4	415.8
291.9	85°	197.8	152.5	139.4	144.2	137.0	140.6	160.8	319.3	295.5	172.7
90.5	87.5°	51.2	52.4	34.5	36.9	38.1	45.3	51.2	194.2	92.9	60.8
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>
4064.8
3870.7
3453.7
2878.3
2431.5
2224.2
2075.3
2024.1
2008.6
1950.2
1852.5
1772.7
1697.7
1615.5
1523.7
1420.1
1258.1
1181.8
1229.5
1196.1
1059.1
967.4
922.1
864.9
810.1
755.3
705.3
656.4
599.2
536.1
463.4
378.8
337.1
425.3
187.0
64.3
0.0

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