

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: P953605

Luminaire Tested: **GALN-SB7A-835-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-835-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30377 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

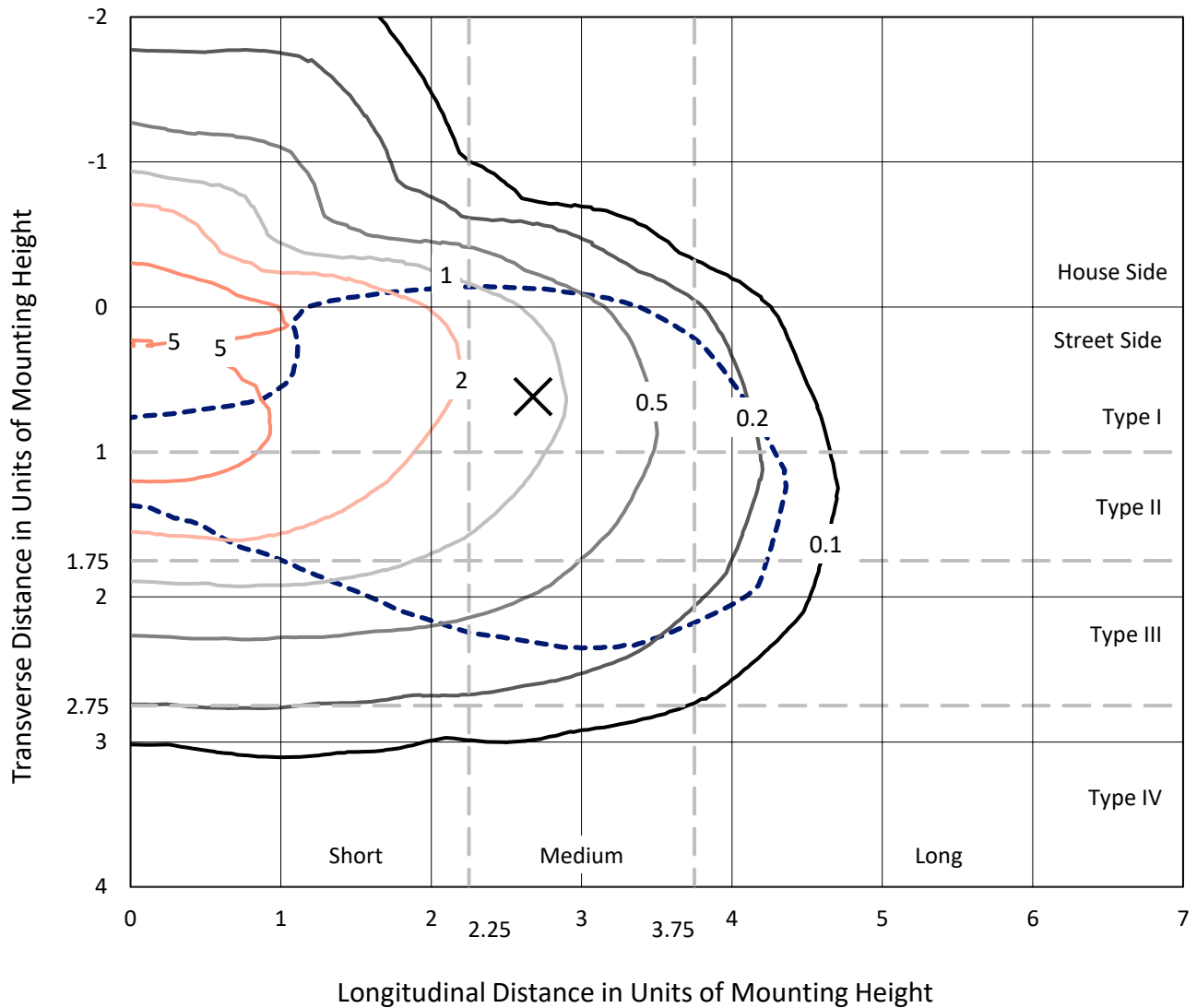
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953605
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Iso-Footcandle Lines of Horizontal Illumination

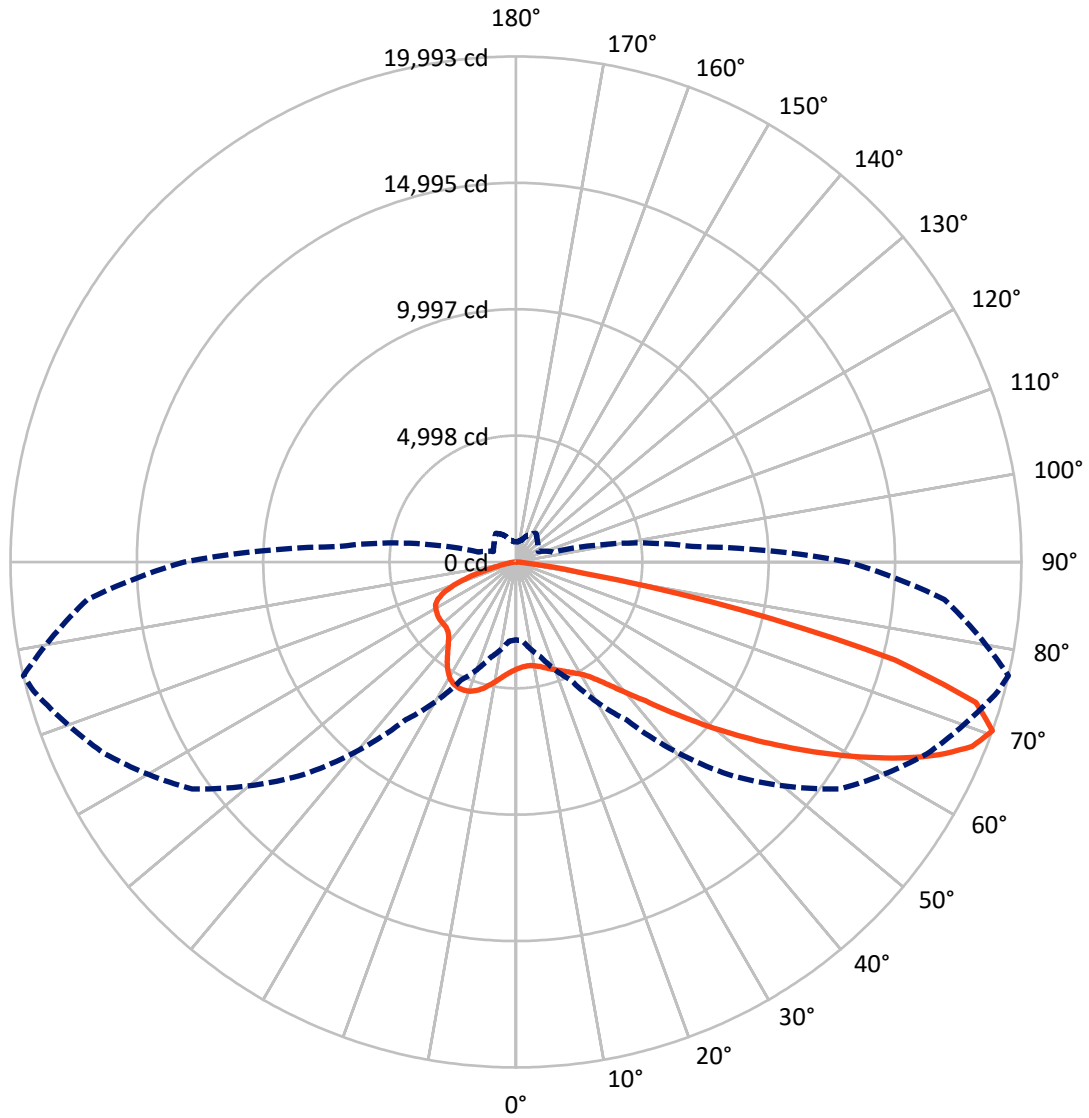
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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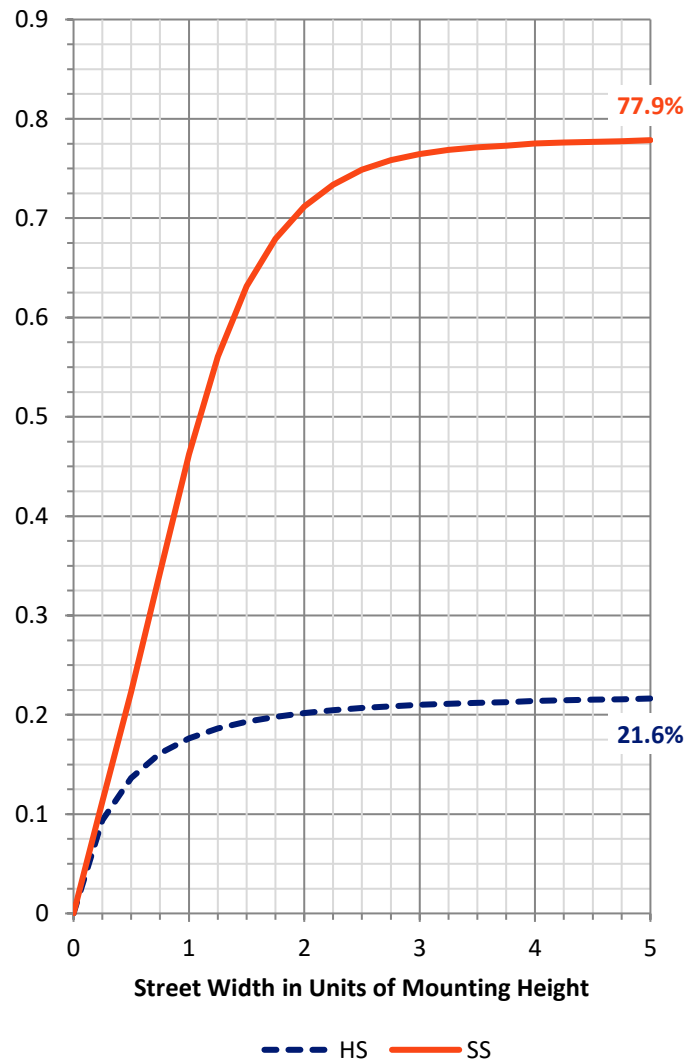
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6652.1	0.0	6652.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23724.9	0.0	23724.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	30377.0	0.0	30377.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	1.3
10°-20°	1166.5	3.8
20°-30°	1994.9	6.6
30°-40°	3208.0	10.6
40°-50°	5008.5	16.5
50°-60°	6690.1	22.0
60°-70°	7130.6	23.5
70°-80°	4389.6	14.5
80°-90°	384.6	1.3
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°	30377.0	100.0
0°-180°	30377.0	100.0



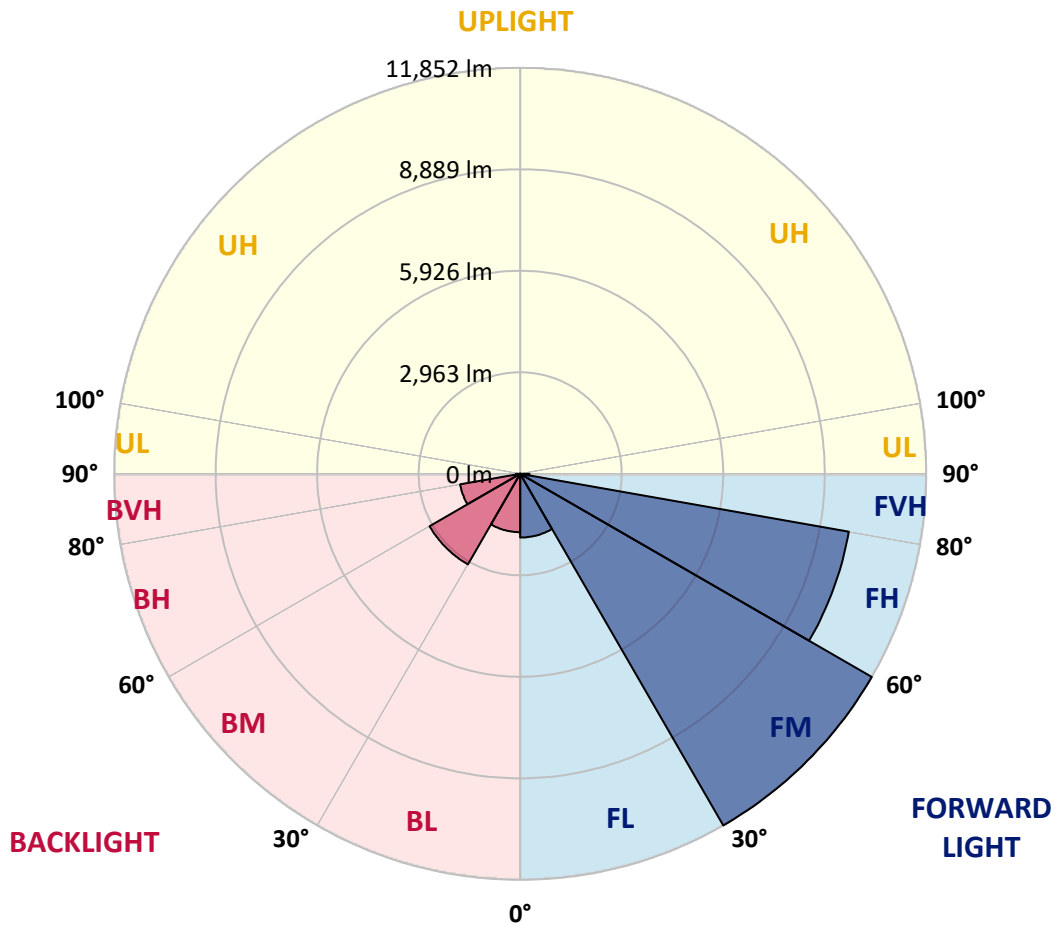
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 CATALOG NUMBER: GALN-SB7A-835-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.1	6.1			
FM (30°-60°)	11852.4	39.0			
FH (60°-80°)	9742.4	32.1			G4/12000
FVH (80°-90°)	269.0	0.9			G3/500
BL (0°-30°)	1704.5	5.6	B3/2500		
BM (30°-60°)	3054.1	10.1	B3/5000		
BH (60°-80°)	1777.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	115.7	0.4			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 III Medium



REPORT NUMBER: P953605
 CATALOG NUMBER: GALN-SB7A-835-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9
2.5°	3906.5	3904.9	3925.2	3931.4	3968.7	3995.2	4045.0	4097.9	4166.3	4174.1
5°	3680.9	3680.9	3704.2	3729.1	3777.4	3830.3	3906.5	3998.3	4116.5	4135.2
7.5°	3489.6	3502.0	3522.2	3570.5	3626.5	3702.7	3819.4	3950.1	4105.6	4135.2
10°	3335.5	3349.5	3374.4	3413.3	3497.3	3603.1	3755.6	3923.6	4132.1	4178.8
12.5°	3287.3	3301.3	3315.3	3344.9	3422.7	3547.1	3729.1	3936.1	4195.9	4242.5
15°	3399.3	3416.4	3405.5	3397.8	3438.2	3551.8	3741.6	3981.2	4275.2	4342.1
17.5°	3657.6	3663.8	3638.9	3565.8	3559.6	3620.2	3800.7	4043.4	4374.8	4447.9
20°	4074.5	4063.6	4012.3	3867.6	3785.1	3772.7	3901.8	4136.7	4477.5	4555.2
22.5°	4640.8	4628.4	4525.7	4297.0	4113.4	3992.1	4048.1	4258.1	4592.6	4679.7
25°	5347.1	5330.0	5179.1	4867.9	4583.2	4283.0	4247.2	4418.3	4734.2	4815.1
27.5°	6171.7	6157.7	5994.3	5583.6	5172.9	4681.3	4494.6	4606.6	4881.9	4973.7
30°	7058.4	7098.9	6809.5	6367.7	5848.1	5200.9	4827.5	4838.4	5073.3	5155.8
32.5°	8100.8	8170.8	7822.3	7262.3	6552.8	5765.6	5247.6	5162.0	5351.8	5420.2
35°	9133.8	9213.2	8923.8	8304.6	7487.8	6431.5	5686.3	5533.8	5722.1	5796.7
37.5°	10026.8	10132.6	9983.3	9445.0	8488.2	7234.2	6258.8	5971.0	6177.9	6271.2
40°	10731.6	10893.4	10882.5	10546.4	9667.4	8208.1	6985.3	6510.8	6744.2	6845.3
42.5°	11304.1	11444.1	11565.5	11548.3	10898.0	9314.3	7839.4	7212.5	7389.8	7506.5
45°	11699.3	11848.6	12110.0	12391.6	12082.0	10498.2	8818.0	8044.8	8206.6	8382.4
47.5°	12052.4	12222.0	12561.1	13007.6	13087.0	11686.8	9889.9	9014.0	9161.8	9343.8
50°	12083.5	12229.8	12755.6	13388.8	13801.1	12828.7	11041.2	10101.5	10240.0	10434.4
52.5°	11332.1	11562.3	12480.2	13377.9	14129.3	13784.0	12184.7	11232.5	11388.1	11621.5
55°	8796.2	9133.8	11672.8	12961.0	14012.7	14401.6	13272.1	12435.1	12634.3	12878.5
57.5°	7576.5	7724.3	9266.1	12201.8	13480.6	14561.8	14190.0	13650.2	13970.7	14238.2
60°	6809.5	6932.4	7844.1	11020.9	12780.5	14308.3	14899.4	14782.8	15336.6	15655.5
62.5°	5988.1	6104.8	6934.0	9202.3	11884.4	13886.6	15347.5	15828.2	16736.8	17085.3
65°	5172.9	5272.4	6067.4	7732.1	10745.6	13465.0	15579.3	16732.1	18032.7	18393.7
67.5°	4264.3	4346.8	5098.2	6523.3	9361.0	12887.9	15694.4	17443.1	19160.6	19470.2
70°	3077.3	3141.1	3917.4	5158.9	7623.2	11895.3	15647.8	17947.2	19745.6	19993.0
72.5°	1454.6	1512.2	2423.9	3349.5	5384.5	9963.0	14703.4	17547.3	19151.3	19028.4
75°	776.3	826.1	1392.4	1837.3	2843.9	6829.8	12032.2	15115.7	16081.8	15484.4
77.5°	525.8	564.7	861.9	1103.0	1299.1	3242.2	7733.6	10465.5	10068.8	9082.5
80°	416.9	457.4	706.3	746.8	628.5	1171.5	3195.5	4844.6	3480.2	2783.2
82.5°	320.5	365.6	594.3	541.4	342.3	480.7	930.3	1532.4	891.4	678.3
85°	196.0	244.3	466.7	345.4	192.9	219.4	315.8	426.3	272.3	227.1
87.5°	99.6	140.0	236.5	126.0	87.1	51.3	84.0	84.0	71.6	62.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953605
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4237.9	0°	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9	4237.9
4216.1	2.5°	4253.4	4284.5	4337.4	4387.2	4426.1	4463.5	4500.8	4521.0	4527.2	4552.1
4239.4	5°	4303.2	4360.8	4463.5	4559.9	4620.6	4657.9	4684.4	4699.9	4703.0	4710.8
4303.2	7.5°	4395.0	4486.8	4629.9	4726.4	4771.5	4768.4	4757.5	4718.6	4703.0	4689.0
4396.6	10°	4524.1	4645.5	4821.3	4888.2	4860.2	4785.5	4689.0	4575.5	4522.6	4471.2
4524.1	12.5°	4684.4	4838.4	5011.1	5008.0	4869.5	4678.1	4454.1	4279.9	4169.4	4090.1
4681.3	15°	4878.8	5056.2	5188.4	5082.6	4779.3	4435.4	4107.2	3880.0	3780.5	3693.4
4839.9	17.5°	5079.5	5269.3	5330.0	5059.3	4552.1	4076.1	3704.2	3525.3	3427.3	3380.6
5011.1	20°	5275.6	5463.8	5414.0	4925.5	4206.8	3668.5	3337.1	3239.1	3218.9	3229.7
5177.5	22.5°	5482.5	5650.5	5431.1	4667.3	3766.5	3251.5	3069.5	3072.6	3117.7	3150.4
5351.8	25°	5694.1	5807.6	5386.0	4293.9	3293.5	2945.0	2899.9	2949.7	3038.4	3102.2
5547.8	27.5°	5897.9	5947.6	5288.0	3831.8	2887.5	2725.7	2733.5	2836.1	2969.9	3058.6
5785.8	30°	6128.1	6072.1	5099.8	3312.2	2605.9	2537.4	2602.8	2722.6	2856.4	2935.7
6086.1	32.5°	6387.9	6179.4	4801.1	2831.5	2406.7	2386.5	2493.9	2571.7	2630.8	2654.1
6484.4	35°	6711.5	6330.4	4418.3	2493.9	2227.8	2276.1	2378.7	2339.9	2316.5	2304.1
7019.6	37.5°	7131.6	6534.2	3970.3	2274.5	2083.2	2196.7	2238.7	2117.4	2025.6	1980.5
7668.3	40°	7637.2	6832.9	3539.3	2104.9	1991.4	2128.3	2055.1	1908.9	1792.2	1728.4
8397.9	42.5°	8198.8	7145.6	3176.8	1977.4	1940.0	2072.3	1919.8	1745.6	1557.3	1537.1
9267.6	45°	8788.4	7467.6	2929.5	1879.3	1915.1	2024.0	1842.0	1560.4	1426.6	1509.1
10140.4	47.5°	9378.1	7763.2	2780.1	1806.2	1902.7	1969.6	1773.6	1457.7	1362.8	1482.6
11075.4	50°	10034.6	8027.7	2713.2	1753.3	1888.7	1947.8	1670.9	1431.3	1295.9	1375.3
12043.1	52.5°	10686.5	8233.0	2663.4	1700.4	1868.5	1930.7	1621.1	1400.2	1215.0	1219.7
13017.0	55°	11336.8	8366.8	2609.0	1630.4	1823.3	1893.4	1616.4	1366.0	1154.4	1132.6
14046.9	57.5°	12030.6	8443.1	2542.1	1552.6	1745.6	1798.4	1611.8	1339.5	1135.7	1099.9
15100.1	60°	12736.9	8555.1	2455.0	1457.7	1641.3	1684.9	1600.9	1330.2	1124.8	1064.1
16092.7	62.5°	13370.1	8594.0	2350.7	1367.5	1507.5	1572.9	1577.5	1322.4	1095.2	991.0
16917.2	65°	13785.5	8426.0	2168.7	1264.8	1362.8	1457.7	1532.4	1295.9	1042.4	938.1
17324.9	67.5°	13768.4	7946.8	1884.0	1132.6	1222.8	1330.2	1467.1	1250.8	978.6	872.8
17016.8	70°	13127.4	7000.9	1523.1	978.6	1068.8	1193.3	1383.1	1183.9	902.3	801.2
15131.2	72.5°	11259.0	5479.4	1106.1	798.1	889.9	1051.7	1274.2	1103.0	824.5	737.4
11182.7	75°	8043.2	3467.8	749.9	613.0	692.3	891.4	1138.8	1008.1	753.0	740.5
5600.7	77.5°	4108.7	1656.9	496.3	448.1	482.3	703.2	956.8	900.8	763.9	611.4
1593.1	80°	1336.4	611.4	312.7	304.9	320.5	468.3	740.5	739.0	578.7	415.4
385.8	82.5°	426.3	262.9	203.8	196.0	188.2	294.0	516.5	585.0	390.5	262.9
138.5	85°	169.6	157.1	119.8	110.5	79.3	138.5	270.7	388.9	290.9	189.8
35.8	87.5°	62.2	62.2	32.7	23.3	17.1	46.7	73.1	116.7	166.5	98.0
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>
4237.9
4566.1
4723.3
4692.1
4455.7
4071.4
3684.0
3394.7
3225.1
3158.2
3119.3
3080.4
2954.4
2666.6
2316.5
1991.4
1733.1
1557.3
1552.6
1538.6
1434.4
1252.4
1148.1
1104.6
1068.8
991.0
938.1
877.4
<i>810.5</i>
732.8
698.5
544.5
367.2
261.4
194.5
96.5
0.0

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