

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: P949006

Luminaire Tested: **GALN-SB3D-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949006
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-SB3D-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29981 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

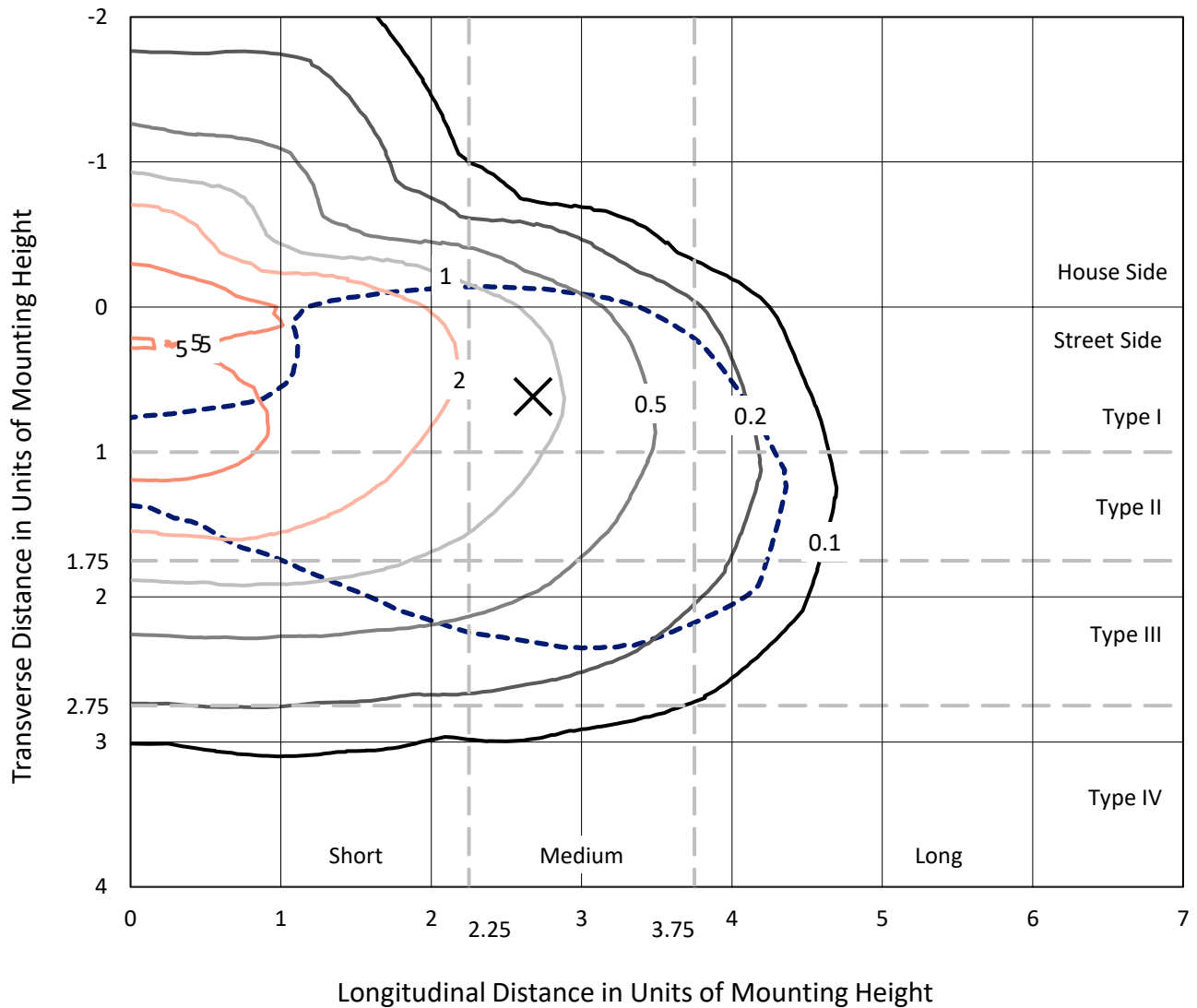
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

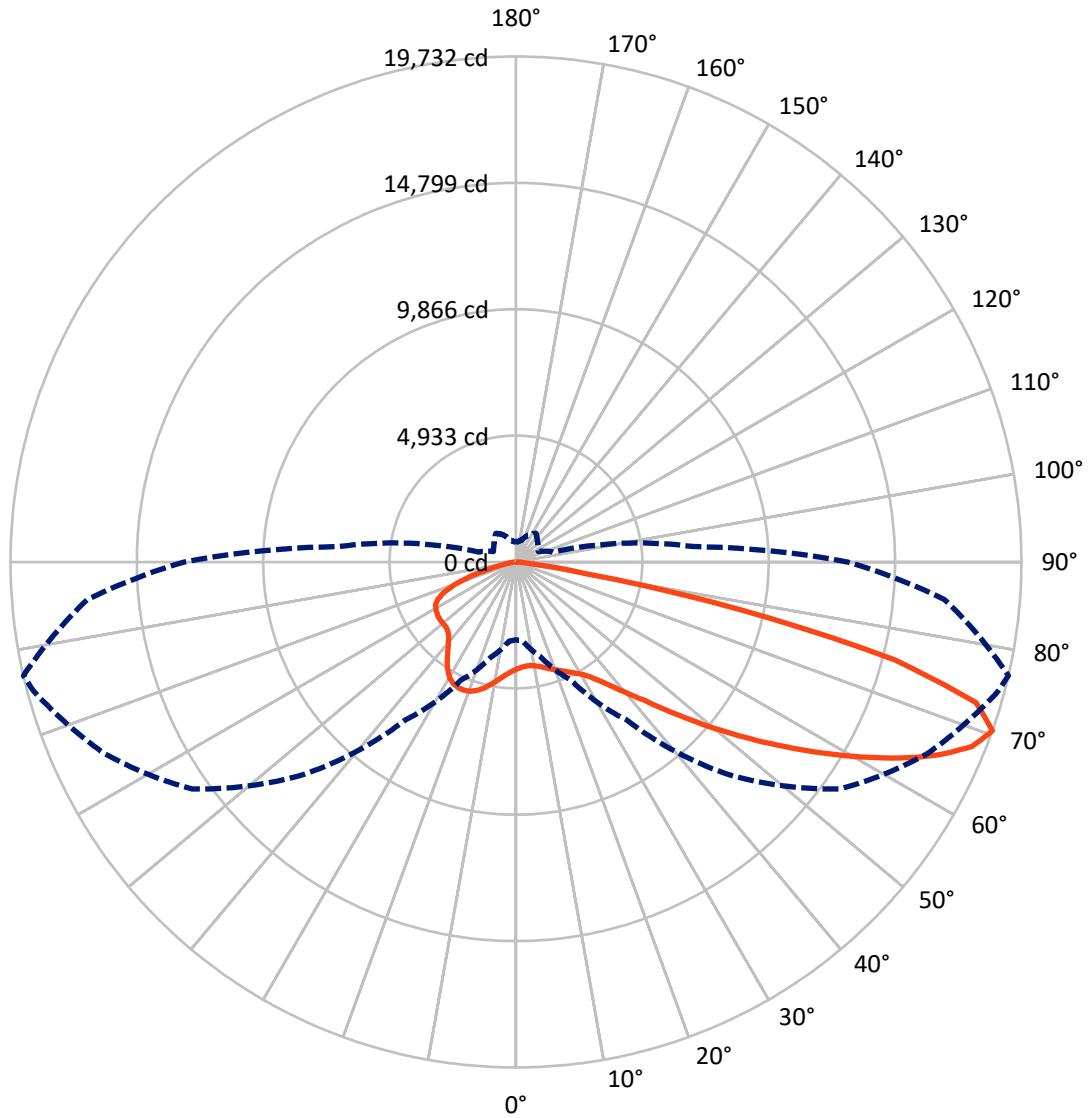
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	6565.4	0.0	6565.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	23415.6	0.0	23415.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	29981.0	0.0	29981.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	1.3
10°-20°	1151.3	3.8
20°-30°	1968.9	6.6
30°-40°	3166.1	10.6
40°-50°	4943.2	16.5
50°-60°	6602.9	22.0
60°-70°	7037.7	23.5
70°-80°	4332.4	14.5
80°-90°	379.6	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°	29981.0	100.0
0°-180°	29981.0	100.0



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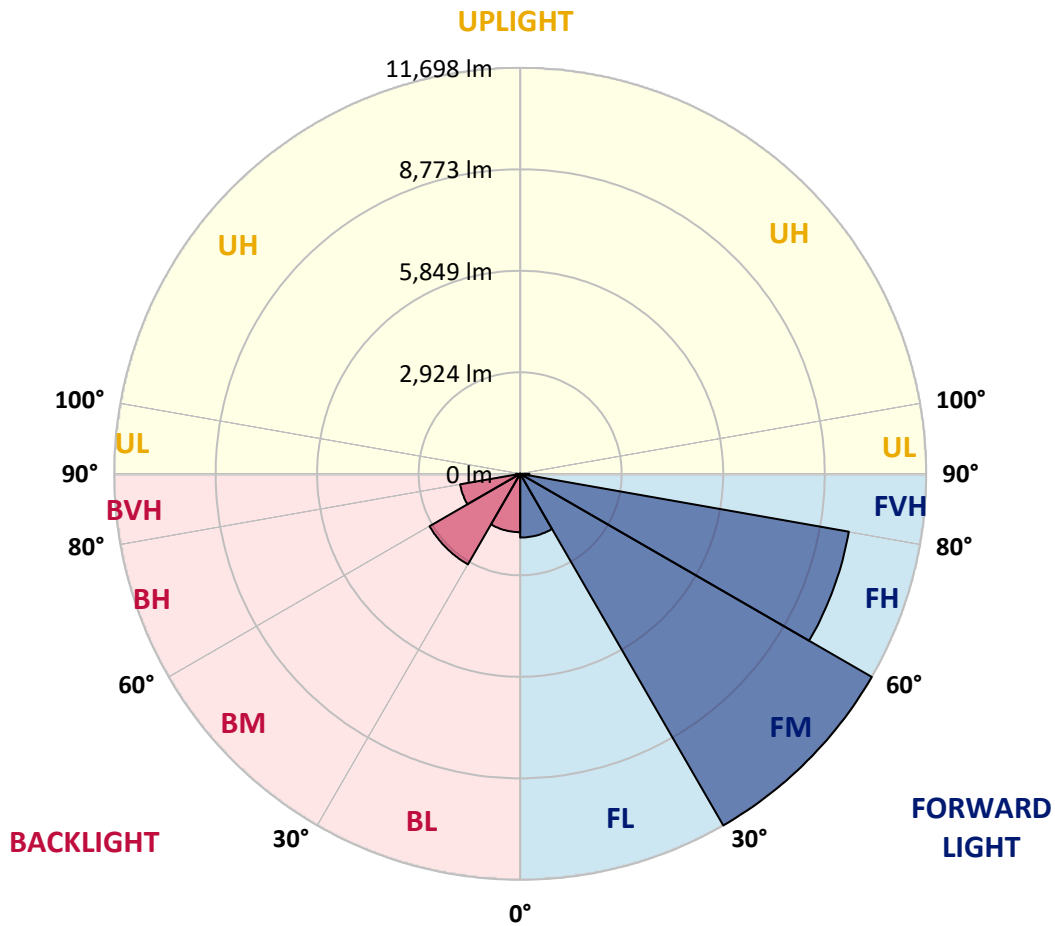
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1836.8	6.1			
FM (30°-60°)	11697.9	39.0			
FH (60°-80°)	9615.4	32.1			G4/12000
FVH (80°-90°)	265.5	0.9			G3/500
BL (0°-30°)	1682.3	5.6	B3/2500		
BM (30°-60°)	3014.3	10.1	B3/5000		
BH (60°-80°)	1754.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	114.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6
2.5°	3855.6	3854.0	3874.0	3880.1	3917.0	3943.1	3992.2	4044.4	4112.0	4119.7
5°	3632.9	3632.9	3656.0	3680.5	3728.1	3780.3	3855.6	3946.2	4062.9	4081.3
7.5°	3444.1	3456.3	3476.3	3523.9	3579.2	3654.4	3769.6	3898.6	4052.1	4081.3
10°	3292.0	3305.9	3330.4	3368.8	3451.7	3556.2	3706.6	3872.5	4078.2	4124.3
12.5°	3244.5	3258.3	3272.1	3301.3	3378.0	3500.9	3680.5	3884.7	4141.2	4187.2
15°	3355.0	3371.9	3361.1	3353.5	3393.4	3505.5	3692.8	3929.3	4219.5	4285.5
17.5°	3609.9	3616.0	3591.5	3519.3	3513.2	3573.0	3751.2	3990.7	4317.7	4389.9
20°	4021.4	4010.7	3960.0	3817.2	3735.8	3723.5	3851.0	4082.8	4419.1	4495.9
22.5°	4580.3	4568.0	4466.7	4241.0	4059.8	3940.0	3995.3	4202.6	4532.7	4618.7
25°	5277.4	5260.5	5111.6	4804.5	4523.5	4227.2	4191.8	4360.7	4672.4	4752.3
27.5°	6091.2	6077.4	5916.2	5510.8	5105.4	4620.2	4436.0	4546.5	4818.3	4908.9
30°	6966.4	7006.4	6720.8	6284.7	5771.8	5133.1	4764.6	4775.3	5007.2	5088.6
32.5°	7995.2	8064.3	7720.3	7167.6	6467.4	5690.5	5179.1	5094.7	5282.0	5349.6
35°	9014.8	9093.1	8807.5	8196.3	7390.2	6347.6	5612.1	5461.7	5647.5	5721.2
37.5°	9896.1	10000.5	9853.1	9321.8	8377.5	7139.9	6177.2	5893.1	6097.4	6189.5
40°	10591.7	10751.4	10740.6	10409.0	9541.4	8101.1	6894.3	6425.9	6656.3	6756.1
42.5°	11156.7	11294.9	11414.7	11397.8	10756.0	9192.9	7737.2	7118.4	7293.5	7408.6
45°	11546.7	11694.1	11952.1	12230.0	11924.5	10361.4	8703.0	7939.9	8099.6	8273.1
47.5°	11895.3	12062.7	12397.4	12838.1	12916.4	11534.5	9761.0	8896.5	9042.4	9222.0
50°	11926.0	12070.3	12589.3	13214.3	13621.2	12661.5	10897.2	9969.8	10106.5	10298.4
52.5°	11184.4	11411.6	12317.5	13203.5	13945.1	13604.3	12025.8	11086.1	11239.6	11470.0
55°	8681.6	9014.8	11520.6	12792.0	13830.0	14213.9	13099.1	12273.0	12469.6	12710.6
57.5°	7477.7	7623.6	9145.3	12042.7	13304.9	14372.0	14005.0	13472.2	13788.5	14052.6
60°	6720.8	6842.1	7741.8	10877.3	12613.9	14121.7	14705.2	14590.0	15136.7	15451.4
62.5°	5910.0	6025.2	6843.6	9082.3	11729.5	13705.6	15147.4	15621.9	16518.6	16862.5
65°	5105.4	5203.7	5988.3	7631.3	10605.5	13289.5	15376.2	16514.0	17797.6	18153.9
67.5°	4208.7	4290.1	5031.7	6438.2	9238.9	12719.8	15489.8	17215.7	18910.9	19216.4
70°	3037.2	3100.1	3866.3	5091.6	7523.8	11740.2	15443.8	17713.2	19488.2	19732.3
72.5°	1435.7	1492.5	2392.3	3305.9	5314.3	9833.2	14511.7	17318.6	18901.6	18780.3
75°	766.2	815.3	1374.2	1813.4	2806.8	6740.7	11875.3	14918.6	15872.2	15282.5
77.5°	519.0	557.4	850.7	1088.6	1282.1	3199.9	7632.8	10329.1	9937.6	8964.1
80°	411.5	451.4	697.1	737.0	620.3	1156.2	3153.9	4781.5	3434.8	2747.0
82.5°	316.3	360.8	586.5	534.3	337.8	474.5	918.2	1512.4	879.8	669.5
85°	193.5	241.1	460.6	340.9	190.4	216.5	311.7	420.7	268.7	224.2
87.5°	98.3	138.2	233.4	124.4	86.0	50.7	82.9	82.9	70.6	61.4
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°
4182.6	0°	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6	4182.6
4161.1	2.5°	4198.0	4228.7	4280.9	4330.0	4368.4	4405.3	4442.1	4462.1	4468.2	4492.8
4184.2	5°	4247.1	4303.9	4405.3	4500.5	4560.3	4597.2	4623.3	4638.7	4641.7	4649.4
4247.1	7.5°	4337.7	4428.3	4569.6	4664.8	4709.3	4706.2	4695.5	4657.1	4641.7	4627.9
4339.2	10°	4465.1	4584.9	4758.4	4824.4	4796.8	4723.1	4627.9	4515.8	4463.6	4412.9
4465.1	12.5°	4623.3	4775.3	4945.8	4942.7	4806.0	4617.2	4396.1	4224.1	4115.1	4036.8
4620.2	15°	4815.2	4990.3	5120.8	5016.4	4717.0	4377.6	4053.6	3829.5	3731.2	3645.2
4776.9	17.5°	5013.3	5200.6	5260.5	4993.4	4492.8	4022.9	3656.0	3479.4	3382.6	3336.6
4945.8	20°	5206.8	5392.6	5343.4	4861.3	4151.9	3620.6	3293.6	3196.9	3176.9	3187.6
5110.0	22.5°	5411.0	5576.8	5360.3	4606.4	3717.4	3209.1	3029.5	3032.6	3077.1	3109.3
5282.0	25°	5619.8	5731.9	5315.8	4237.9	3250.6	2906.6	2862.1	2911.3	2998.8	3061.7
5475.5	27.5°	5821.0	5870.1	5219.1	3781.9	2849.8	2690.1	2697.8	2799.2	2931.2	3018.7
5710.4	30°	6048.2	5992.9	5033.3	3269.0	2571.9	2504.4	2568.8	2687.1	2819.1	2897.4
6006.8	32.5°	6304.6	6098.9	4738.5	2794.6	2375.4	2355.4	2461.4	2538.1	2596.5	2619.5
6399.8	35°	6624.0	6247.8	4360.7	2461.4	2198.8	2246.4	2347.7	2309.3	2286.3	2274.0
6928.0	37.5°	7038.6	6449.0	3918.5	2244.9	2056.0	2168.1	2209.5	2089.8	1999.2	1954.7
7568.3	40°	7537.6	6743.8	3493.2	2077.5	1965.4	2100.5	2028.4	1884.0	1768.9	1705.9
8288.5	42.5°	8091.9	7052.4	3135.4	1951.6	1914.7	2045.2	1894.8	1722.8	1537.0	1517.0
9146.8	45°	8673.9	7370.3	2891.3	1854.8	1890.2	1997.6	1818.0	1540.1	1408.0	1489.4
10008.2	47.5°	9255.8	7662.0	2743.9	1782.7	1877.9	1943.9	1750.4	1438.7	1345.1	1463.3
10931.0	50°	9903.8	7923.0	2677.9	1730.5	1864.1	1922.4	1649.1	1412.6	1279.0	1357.4
11886.1	52.5°	10547.2	8125.7	2628.7	1678.3	1844.1	1905.5	1600.0	1381.9	1199.2	1203.8
12847.3	55°	11189.0	8257.8	2575.0	1609.2	1799.6	1868.7	1595.4	1348.1	1139.3	1117.8
13863.8	57.5°	11873.8	8333.0	2509.0	1532.4	1722.8	1775.0	1590.7	1322.0	1120.9	1085.6
14903.3	60°	12570.9	8443.6	2423.0	1438.7	1619.9	1662.9	1580.0	1312.8	1110.1	1050.3
15882.9	62.5°	13195.8	8481.9	2320.1	1349.7	1487.9	1552.4	1557.0	1305.2	1081.0	978.1
16696.7	65°	13605.8	8316.1	2140.4	1248.3	1345.1	1438.7	1512.4	1279.0	1028.8	925.9
17099.0	67.5°	13588.9	7843.2	1859.5	1117.8	1206.9	1312.8	1447.9	1234.5	965.8	861.4
16795.0	70°	12956.3	6909.6	1503.2	965.8	1054.9	1177.7	1365.0	1168.5	890.6	790.8
14934.0	72.5°	11112.2	5407.9	1091.7	787.7	878.3	1038.0	1257.6	1088.6	813.8	727.8
11037.0	75°	7938.4	3422.6	740.1	605.0	683.3	879.8	1124.0	995.0	743.2	730.9
5527.7	77.5°	4055.2	1635.3	489.8	442.2	476.0	694.0	944.3	889.0	753.9	603.4
1572.3	80°	1319.0	603.4	308.6	301.0	316.3	462.2	730.9	729.3	571.2	410.0
380.8	82.5°	420.7	259.5	201.1	193.5	185.8	290.2	509.8	577.3	385.4	259.5
136.7	85°	167.4	155.1	118.2	109.0	78.3	136.7	267.2	383.9	287.1	187.3
35.3	87.5°	61.4	61.4	32.2	23.0	16.9	46.1	72.2	115.2	164.3	96.7
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>
4182.6
4506.6
4661.7
4631.0
4397.6
4018.3
3636.0
3350.4
3183.0
3117.0
3078.6
3040.2
2915.9
2631.8
2286.3
1965.4
1710.5
1537.0
1532.4
1518.6
1415.7
1236.1
1133.2
1090.2
1054.9
978.1
925.9
866.0
<i>800.0</i>
723.2
689.4
537.4
362.4
258.0
191.9
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0.0

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