

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: P955056

Luminaire Tested: **GALN-SB8A-840-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-840-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34628 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

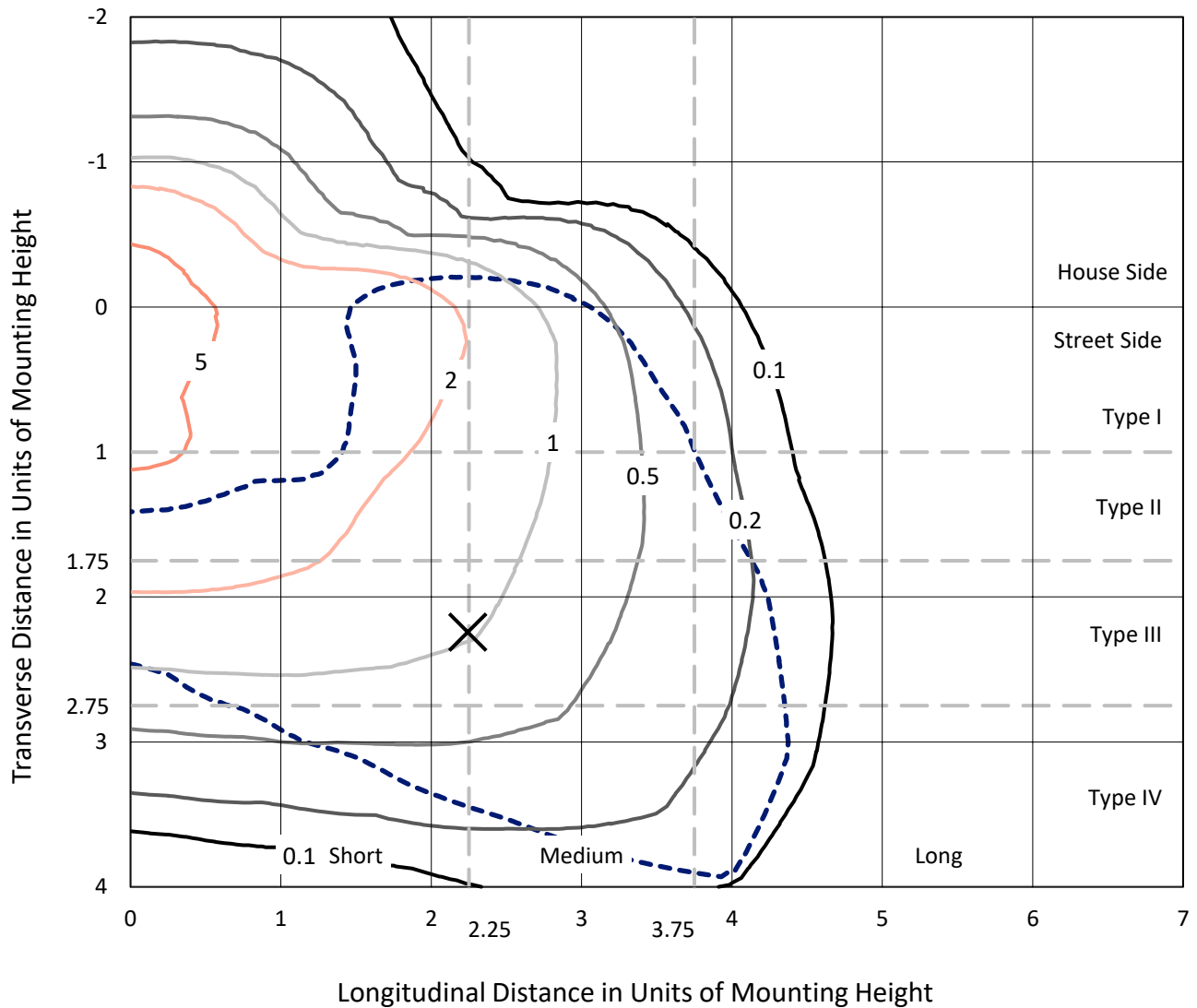
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

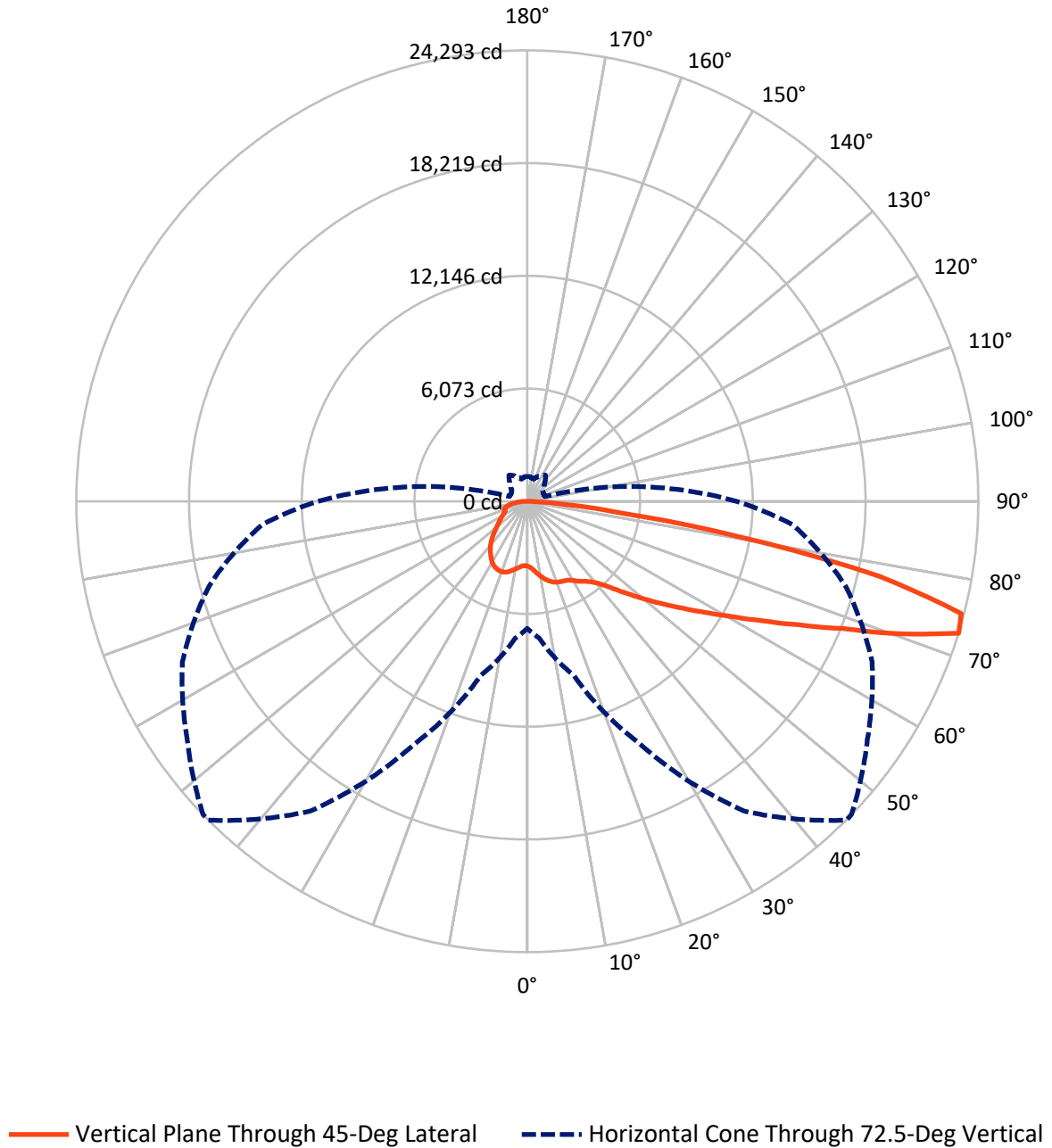
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7828.2	0.0	7828.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26799.8	0.0	26799.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	34628.0	0.0	34628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.5	1.0
10°-20°	1185.4	3.4
20°-30°	2062.1	6.0
30°-40°	2956.2	8.5
40°-50°	4162.5	12.0
50°-60°	6375.7	18.4
60°-70°	9236.2	26.7
70°-80°	7375.6	21.3
80°-90°	918.6	2.7
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°	34628.0	100.0
0°-180°	34628.0	100.0

Coefficient of Utilization



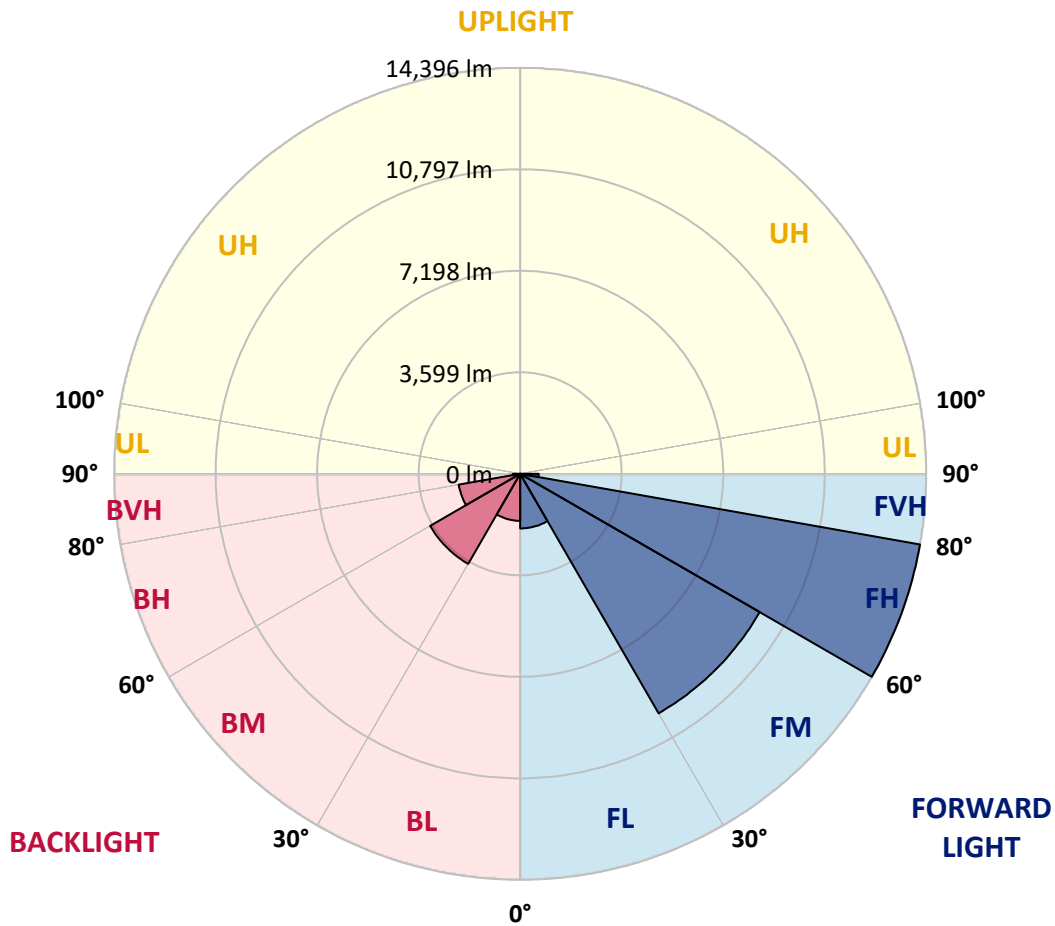
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.5	5.6			
FM (30°-60°)	9808.5	28.3			
FH (60°-80°)	14395.9	41.6			G5
FVH (80°-90°)	659.0	1.9			G4/750
BL (0°-30°)	1666.7	4.8	B3/2500		
BM (30°-60°)	3686.0	10.6	B3/5000		
BH (60°-80°)	2216.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	259.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3
2.5°	3630.1	3653.8	3631.9	3611.9	3602.7	3579.0	3577.2	3562.6	3553.5	3528.0
5°	3883.7	3914.7	3878.2	3838.1	3801.6	3743.2	3735.9	3694.0	3646.5	3591.8
7.5°	4170.1	4197.4	4155.5	4095.3	4031.4	3934.7	3932.9	3856.3	3781.5	3688.5
10°	4420.0	4456.5	4399.9	4317.8	4237.6	4128.1	4115.3	4027.8	3932.9	3812.5
12.5°	4640.7	4666.2	4611.5	4511.2	4418.1	4308.7	4292.3	4195.6	4089.8	3953.0
15°	4815.8	4848.7	4775.7	4668.1	4569.6	4461.9	4447.3	4359.8	4254.0	4109.9
17.5°	4930.7	4958.1	4883.3	4762.9	4668.1	4578.7	4567.7	4494.8	4401.7	4255.8
20°	4974.5	5003.7	4925.3	4803.0	4715.5	4646.2	4640.7	4587.8	4523.9	4390.8
22.5°	5018.3	5045.7	4943.5	4815.8	4739.2	4695.4	4693.6	4658.9	4633.4	4523.9
25°	5195.2	5202.5	5065.7	4881.5	4772.0	4733.7	4731.9	4730.1	4741.0	4655.3
27.5°	5348.5	5346.7	5229.9	5056.6	4887.0	4806.7	4804.9	4823.1	4857.8	4786.6
30°	5572.8	5552.8	5414.1	5233.6	5078.5	4954.5	4943.5	4927.1	4954.5	4897.9
32.5°	6049.0	5985.1	5760.7	5439.7	5237.2	5142.3	5127.8	5025.6	5036.5	5001.9
35°	6731.2	6647.3	6348.1	5830.1	5434.2	5299.2	5291.9	5162.4	5140.5	5109.5
37.5°	7543.0	7439.0	7090.6	6395.6	5773.5	5481.6	5470.7	5353.9	5264.6	5231.7
40°	8358.4	8227.0	7938.8	7085.1	6273.3	5786.3	5751.6	5574.7	5472.5	5417.8
42.5°	9150.1	9040.6	8794.3	7858.5	6889.9	6231.4	6154.8	5851.9	5775.3	5724.3
45°	9850.5	9752.0	9571.4	8684.9	7612.3	6837.0	6762.2	6267.9	6244.1	6244.1
47.5°	10419.7	10397.8	10206.2	9527.7	8464.2	7526.5	7397.0	6846.1	6910.0	7008.5
50°	11050.8	10990.6	10786.3	10357.7	9465.6	8316.4	8210.6	7555.7	7794.7	8064.7
52.5°	11630.9	11663.8	11435.7	11222.3	10596.6	9197.5	9011.4	8393.0	8909.3	9356.2
55°	12227.4	12229.3	12165.4	12136.2	11782.3	10171.6	9967.3	9400.0	10220.8	10775.4
57.5°	12787.5	12791.1	12886.0	13143.2	13157.8	11295.3	11063.6	10636.8	11678.4	12243.8
60°	13287.3	13312.8	13571.8	14173.8	14367.2	12583.1	12364.2	12097.9	13185.1	13754.3
62.5°	13455.1	13548.1	14124.6	14980.1	15562.0	14162.9	13947.6	13788.9	14768.5	15297.5
65°	13170.5	13384.0	14498.5	15645.9	16791.5	16040.0	15826.5	15653.2	16413.9	16911.9
67.5°	12471.9	12747.3	14476.6	16344.6	18283.7	18298.3	18099.4	17692.7	18177.9	18369.4
70°	10631.3	11043.5	13201.5	16605.4	19996.6	21386.6	21195.1	20148.0	19938.2	19011.5
72.5°	6849.8	7404.3	9721.0	14458.4	20377.8	24292.5	24281.6	22364.4	20494.6	17763.8
75°	2499.1	2838.4	4516.7	9075.3	17105.3	24144.8	24215.9	21984.9	18708.7	13721.4
77.5°	910.3	996.0	1473.9	3487.8	10520.0	19372.7	19520.5	17575.9	13316.5	6886.3
80°	477.9	525.4	755.2	1353.5	4507.5	11505.1	11736.7	10445.2	6258.7	2074.1
82.5°	264.5	286.4	423.2	735.1	2030.3	4919.8	5058.4	4126.3	2201.8	879.3
85°	142.3	151.4	198.8	401.3	992.4	1705.6	1743.9	1233.1	877.4	516.2
87.5°	42.0	51.1	65.7	127.7	388.5	383.1	392.2	244.4	346.6	260.9
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°
3493.3	0°	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3	3493.3
3520.7	2.5°	3509.7	3504.2	3484.2	3475.0	3464.1	3462.3	3471.4	3473.2	3475.0	3476.9
3560.8	5°	3542.5	3524.3	3506.1	3495.1	3498.8	3500.6	3518.8	3531.6	3540.7	3548.0
3635.6	7.5°	3606.4	3591.8	3560.8	3559.0	3564.4	3580.9	3604.6	3633.8	3650.2	3662.9
3732.3	10°	3701.2	3673.9	3637.4	3642.9	3653.8	3677.5	3726.8	3750.5	3777.9	3801.6
3850.8	12.5°	3797.9	3774.2	3732.3	3735.9	3754.1	3796.1	3843.5	3872.7	3891.0	3909.2
3978.5	15°	3923.8	3881.8	3836.2	3836.2	3869.1	3914.7	3936.6	3960.3	3971.2	3991.3
4115.3	17.5°	4053.3	3998.6	3938.4	3934.7	3974.9	3996.8	4009.5	4013.2	4016.8	4038.7
4248.5	20°	4182.8	4122.6	4036.9	4029.6	4038.7	4035.1	4033.2	4029.6	4035.1	4062.4
4385.3	22.5°	4310.5	4241.2	4122.6	4089.8	4064.3	4029.6	4027.8	4025.9	4029.6	4057.0
4533.1	25°	4460.1	4376.2	4217.5	4119.0	4033.2	3985.8	3991.3	3993.1	3996.8	4018.7
4686.3	27.5°	4622.5	4529.4	4305.0	4109.9	3954.8	3922.0	3912.9	3918.3	3931.1	3965.8
4839.5	30°	4784.8	4675.4	4385.3	4073.4	3856.3	3810.7	3781.5	3794.3	3834.4	3869.1
4972.7	32.5°	4932.6	4823.1	4449.2	3993.1	3730.4	3659.3	3621.0	3637.4	3677.5	3690.3
5120.5	35°	5105.9	4981.8	4476.5	3865.4	3593.6	3484.2	3433.1	3409.4	3429.4	3416.7
5293.7	37.5°	5299.2	5169.7	4472.9	3697.6	3433.1	3307.2	3236.1	3146.7	3104.7	3061.0
5549.1	40°	5585.6	5399.6	4429.1	3495.1	3234.3	3119.3	2991.6	2840.2	2745.4	2659.6
5961.4	42.5°	5976.0	5718.8	4348.8	3272.6	3009.9	2902.3	2729.0	2552.0	2402.4	2260.2
6587.1	45°	6557.9	6136.5	4248.5	3035.4	2767.3	2661.5	2473.6	2274.7	2105.1	1922.7
7475.5	47.5°	7397.0	6698.4	4153.6	2765.4	2511.9	2415.2	2245.6	2061.3	1860.7	1683.7
8759.7	50°	8549.9	7504.6	4066.1	2502.8	2260.2	2187.2	2052.2	1864.3	1661.8	1519.5
10264.6	52.5°	10016.5	8601.0	4029.6	2249.2	2024.8	1997.5	1889.8	1714.7	1523.2	1402.8
12019.5	55°	11700.2	9912.6	4029.6	2006.6	1818.7	1827.8	1753.0	1590.7	1424.7	1317.1
13829.1	57.5°	13418.6	11240.6	3956.6	1782.2	1643.6	1681.9	1634.5	1492.2	1342.6	1231.3
15731.7	60°	15002.0	12353.3	3661.1	1577.9	1488.5	1548.7	1517.7	1395.5	1213.1	1120.0
17322.3	62.5°	16218.7	12980.8	3092.0	1415.6	1360.8	1430.2	1413.7	1267.8	1189.4	1151.1
18628.5	65°	16828.0	12878.7	2364.1	1271.4	1253.2	1360.8	1326.2	1320.7	1258.7	1214.9
19053.5	67.5°	16454.0	11999.4	1714.7	1165.6	1191.2	1297.0	1430.2	1452.0	1337.1	1251.4
17856.8	70°	14814.1	10408.7	1276.9	1065.3	1112.7	1298.8	1630.8	1519.5	1311.6	1211.3
14321.6	72.5°	11269.7	7761.9	990.5	959.5	1010.6	1307.9	1720.2	1488.5	1238.6	1338.9
8922.0	75°	6444.8	4261.3	795.3	830.0	882.9	1222.2	1674.6	1408.3	1182.1	1229.5
3535.2	77.5°	2457.2	1638.1	656.7	702.3	709.6	1067.1	1601.6	1402.8	1125.5	1098.2
1059.8	80°	851.9	640.3	543.6	558.2	549.1	948.6	1536.0	1220.4	921.2	824.5
437.8	82.5°	348.4	319.2	430.5	412.3	390.4	737.0	1240.4	997.8	753.4	665.8
211.6	85°	151.4	202.5	284.6	249.9	226.2	510.8	994.2	844.6	636.6	549.1
69.3	87.5°	31.0	76.6	120.4	113.1	116.7	341.1	706.0	600.2	450.6	337.5
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>
3493.3
3484.2
3551.7
3666.6
3796.1
3916.5
3998.6
4046.0
4073.4
4075.2
4047.8
4000.4
3907.4
3735.9
3456.8
3088.3
2665.1
2247.4
1900.8
1663.6
1510.4
1393.7
1306.1
1213.1
1105.4
1138.3
1200.3
1236.8
1194.8
<i>1328.0</i>
1229.5
1001.5
797.2
658.5
547.3
264.5
0.0

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