

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: P954006

Luminaire Tested: **GALN-SB7B-850-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954006
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-SB7B-850-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38230 lumens
Efficiency: N/A
Efficacy: 148.9 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

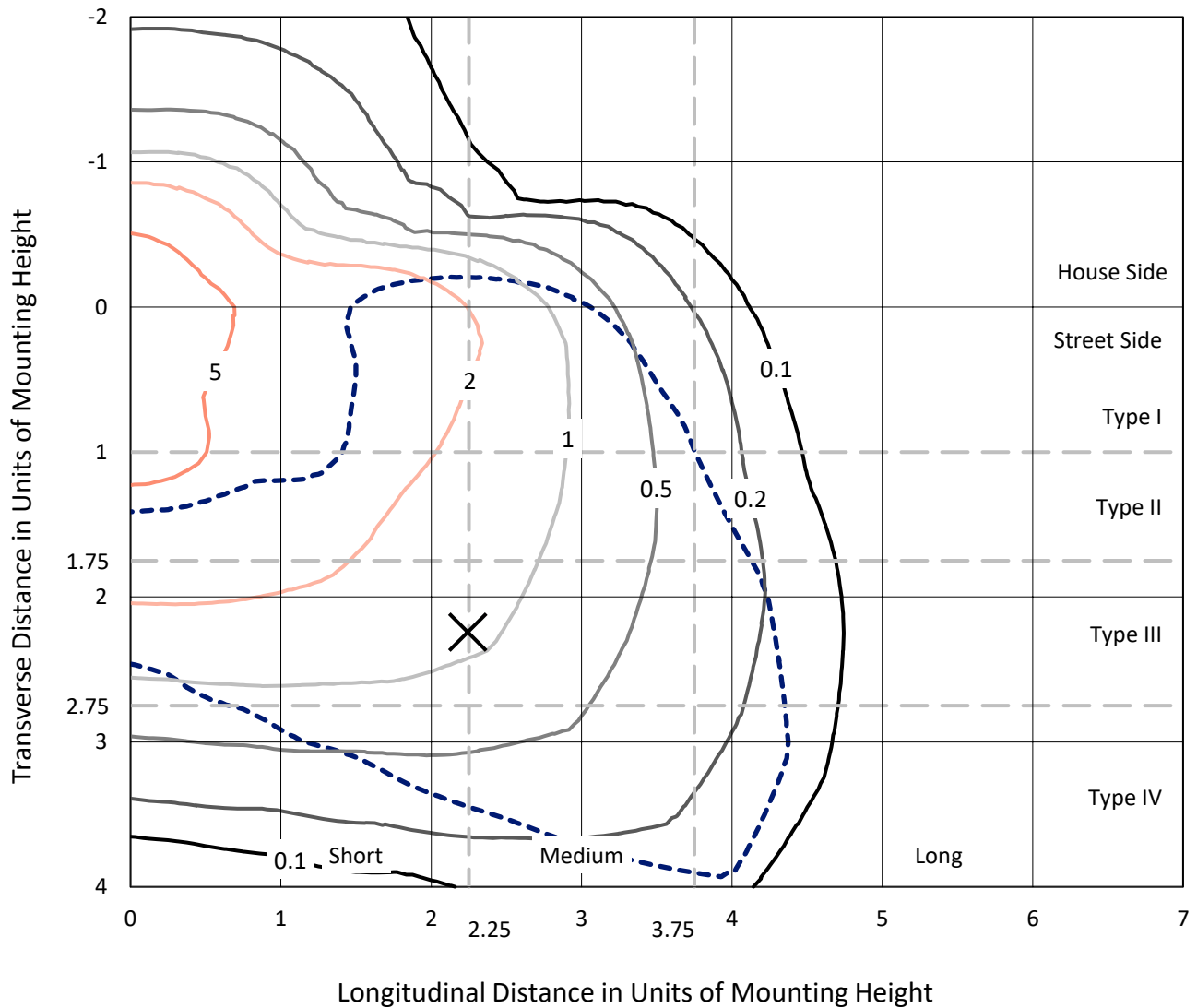
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

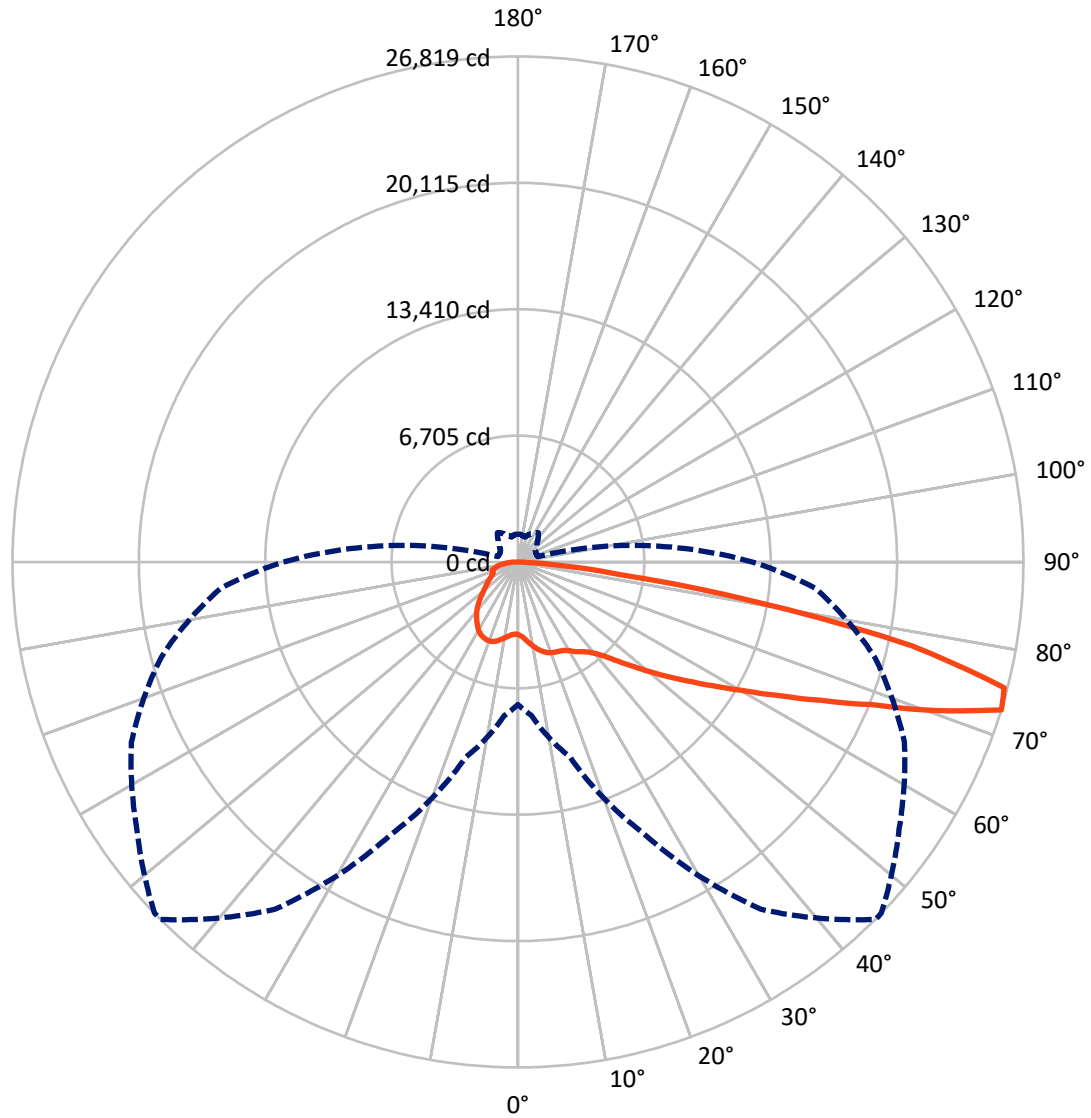
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8642.5	0.0	8642.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29587.5	0.0	29587.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	38230.0	0.0	38230.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.5	1.0
10°-20°	1308.8	3.4
20°-30°	2276.7	6.0
30°-40°	3263.7	8.5
40°-50°	4595.5	12.0
50°-60°	7038.9	18.4
60°-70°	10196.9	26.7
70°-80°	8142.9	21.3
80°-90°	1014.2	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°	38230.0	100.0
0°-180°	38230.0	100.0



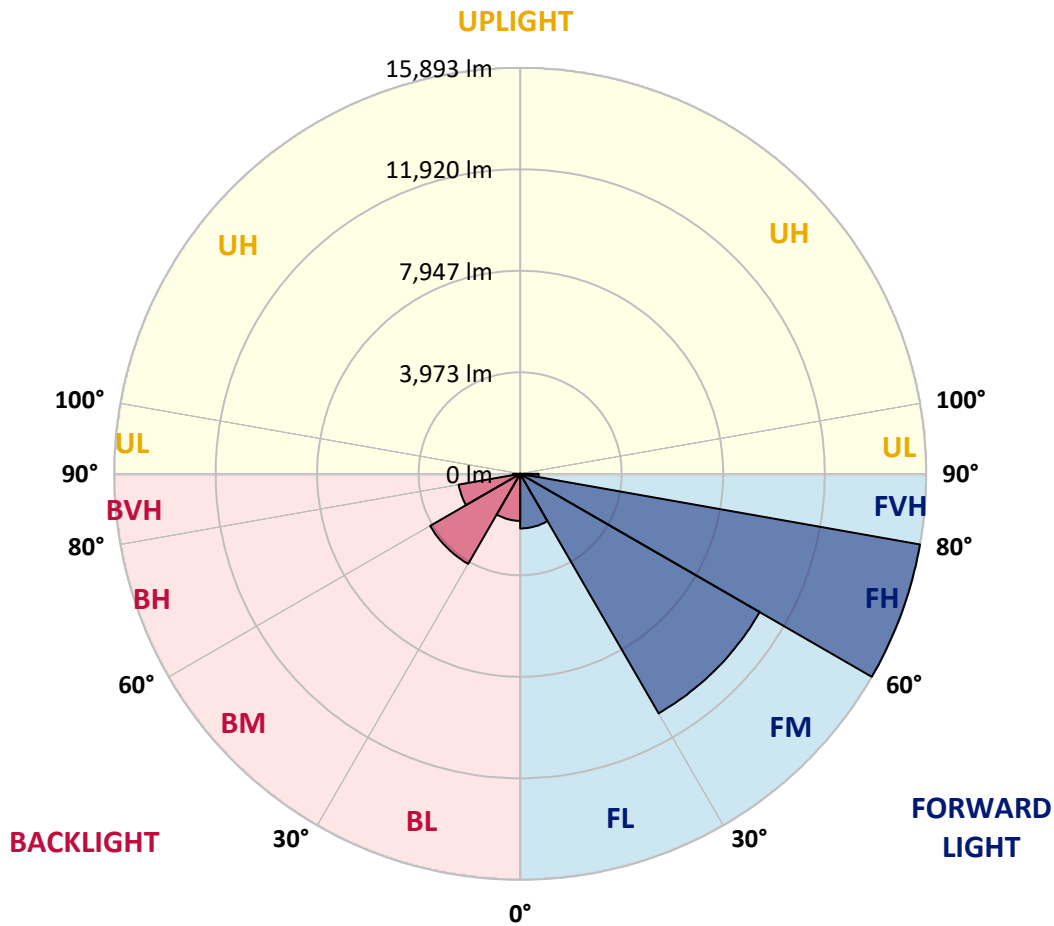
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.9	5.6			
FM (30°-60°)	10828.7	28.3			
FH (60°-80°)	15893.3	41.6			G5
FVH (80°-90°)	727.6	1.9			G4/750
BL (0°-30°)	1840.1	4.8	B3/2500		
BM (30°-60°)	4069.4	10.6	B3/5000		
BH (60°-80°)	2446.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	286.6	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°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	4007.7	4033.9	4009.7	3987.6	3977.5	3951.3	3949.3	3933.2	3923.1	3894.9
5°	4287.6	4321.9	4281.6	4237.3	4197.0	4132.6	4124.5	4078.2	4025.8	3965.4
7.5°	4603.8	4634.0	4587.7	4521.3	4450.8	4344.0	4342.0	4257.4	4174.9	4072.2
10°	4879.7	4920.0	4857.6	4767.0	4678.3	4557.5	4543.4	4446.7	4342.0	4209.1
12.5°	5123.4	5151.6	5091.2	4980.4	4877.7	4756.9	4738.8	4632.0	4515.2	4364.2
15°	5316.8	5353.0	5272.5	5153.6	5044.9	4926.1	4909.9	4813.3	4696.5	4537.4
17.5°	5443.6	5473.8	5391.3	5258.4	5153.6	5054.9	5042.9	4962.3	4859.6	4698.5
20°	5492.0	5524.2	5437.6	5302.7	5206.0	5129.5	5123.4	5065.0	4994.5	4847.5
22.5°	5540.3	5570.5	5457.7	5316.8	5232.2	5183.8	5181.8	5143.6	5115.4	4994.5
25°	5735.7	5743.7	5592.7	5389.3	5268.4	5226.1	5224.1	5222.1	5234.2	5139.5
27.5°	5904.8	5902.8	5773.9	5582.6	5395.3	5306.7	5304.7	5324.8	5363.1	5284.5
30°	6152.5	6130.4	5977.3	5777.9	5606.8	5469.8	5457.7	5439.6	5469.8	5407.4
32.5°	6678.2	6607.7	6360.0	6005.5	5782.0	5677.2	5661.1	5548.4	5560.4	5522.2
35°	7431.4	7338.7	7008.5	6436.5	5999.5	5850.4	5842.4	5699.4	5675.2	5641.0
37.5°	8327.6	8212.8	7828.1	7060.8	6374.1	6051.8	6039.8	5910.9	5812.2	5775.9
40°	9227.8	9082.8	8764.6	7822.1	6925.9	6388.2	6349.9	6154.5	6041.8	5981.4
42.5°	10101.8	9981.0	9709.1	8676.0	7606.6	6879.6	6795.0	6460.7	6376.1	6319.7
45°	10875.2	10766.4	10567.1	9588.3	8404.1	7548.2	7465.6	6919.8	6893.7	6893.7
47.5°	11503.5	11479.4	11267.9	10518.7	9344.6	8309.4	8166.5	7558.3	7628.7	7737.5
50°	12200.3	12133.9	11908.3	11435.1	10450.2	9181.5	9064.7	8341.7	8605.5	8903.6
52.5°	12840.8	12877.0	12625.3	12389.7	11698.9	10154.2	9948.8	9266.1	9836.0	10329.4
55°	13499.3	13501.3	13430.9	13398.6	13007.9	11229.6	11004.1	10377.7	11284.0	11896.2
57.5°	14117.6	14121.6	14226.4	14510.3	14526.4	12470.2	12214.4	11743.2	12893.1	13517.5
60°	14669.4	14697.6	14983.6	15648.2	15861.7	13892.0	13650.4	13356.3	14556.6	15185.0
62.5°	14854.7	14957.4	15593.8	16538.3	17180.8	15636.1	15398.5	15223.2	16304.7	16888.8
65°	14540.5	14776.2	16006.7	17273.4	18538.2	17708.4	17472.8	17281.5	18121.3	18671.1
67.5°	13769.2	14073.3	15982.5	18044.8	20185.6	20201.7	19982.1	19533.0	20068.7	20280.2
70°	11737.1	12192.3	14574.8	18332.7	22076.6	23611.2	23399.8	22243.8	22012.2	20989.1
72.5°	7562.3	8174.5	10732.2	15962.4	22497.5	26819.4	26807.3	24690.7	22626.4	19611.6
75°	2759.1	3133.7	4986.5	10019.3	18884.6	26656.3	26734.8	24271.8	20654.8	15148.7
77.5°	1004.9	1099.6	1627.2	3850.6	11614.3	21387.9	21551.0	19404.1	14701.6	7602.6
80°	527.6	580.0	833.8	1494.3	4976.4	12701.8	12957.6	11531.7	6909.8	2289.8
82.5°	292.0	316.2	467.2	811.6	2241.5	5431.6	5584.6	4555.5	2430.8	970.7
85°	157.1	167.2	219.5	443.1	1095.6	1883.0	1925.3	1361.4	968.7	569.9
87.5°	46.3	56.4	72.5	141.0	429.0	422.9	433.0	269.9	382.6	288.0
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°
3856.7	0°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
3886.9	2.5°	3874.8	3868.7	3846.6	3836.5	3824.4	3822.4	3832.5	3834.5	3836.5	3838.5
3931.2	5°	3911.0	3890.9	3870.8	3858.7	3862.7	3864.7	3884.9	3899.0	3909.0	3917.1
4013.7	7.5°	3981.5	3965.4	3931.2	3929.2	3935.2	3953.3	3979.5	4011.7	4029.9	4044.0
4120.5	10°	4086.3	4056.0	4015.8	4021.8	4033.9	4060.1	4114.4	4140.6	4170.8	4197.0
4251.4	12.5°	4193.0	4166.8	4120.5	4124.5	4144.7	4191.0	4243.3	4275.6	4295.7	4315.8
4392.4	15°	4331.9	4285.6	4235.3	4235.3	4271.5	4321.9	4346.0	4372.2	4384.3	4406.5
4543.4	17.5°	4474.9	4414.5	4348.1	4344.0	4388.3	4412.5	4426.6	4430.6	4434.7	4458.8
4690.4	20°	4617.9	4551.5	4456.8	4448.8	4458.8	4454.8	4452.8	4448.8	4454.8	4485.0
4841.5	22.5°	4758.9	4682.4	4551.5	4515.2	4487.0	4448.8	4446.7	4444.7	4448.8	4479.0
5004.6	25°	4924.0	4831.4	4656.2	4547.4	4452.8	4400.4	4406.5	4408.5	4412.5	4436.7
5173.8	27.5°	5103.3	5000.6	4752.9	4537.4	4366.2	4329.9	4319.9	4325.9	4340.0	4378.3
5342.9	30°	5282.5	5161.7	4841.5	4497.1	4257.4	4207.1	4174.9	4189.0	4233.3	4271.5
5490.0	32.5°	5445.6	5324.8	4912.0	4408.5	4118.5	4039.9	3997.6	4015.8	4060.1	4074.2
5653.1	35°	5637.0	5500.0	4942.2	4267.5	3967.4	3846.6	3790.2	3764.0	3786.2	3772.1
5844.4	37.5°	5850.4	5707.5	4938.1	4082.2	3790.2	3651.2	3572.7	3474.0	3427.7	3379.4
6126.4	40°	6166.6	5961.2	4889.8	3858.7	3570.7	3443.8	3302.8	3135.7	3031.0	2936.3
6581.5	42.5°	6597.6	6313.6	4801.2	3613.0	3323.0	3204.2	3012.8	2817.5	2652.3	2495.3
7272.3	45°	7240.1	6774.8	4690.4	3351.2	3055.1	2938.3	2730.9	2511.4	2324.1	2122.7
8253.1	47.5°	8166.5	7395.1	4585.7	3053.1	2773.2	2666.4	2479.1	2275.7	2054.2	1858.9
9670.9	50°	9439.3	8285.3	4489.0	2763.1	2495.3	2414.7	2265.7	2058.2	1834.7	1677.6
11332.3	52.5°	11058.5	9495.6	4448.8	2483.2	2235.5	2205.2	2086.4	1893.1	1681.6	1548.7
13269.7	55°	12917.3	10943.7	4448.8	2215.3	2007.9	2018.0	1935.4	1756.1	1572.9	1454.1
15267.6	57.5°	14814.4	12409.8	4368.2	1967.6	1814.5	1856.8	1804.5	1647.4	1482.2	1359.4
17368.1	60°	16562.5	13638.3	4041.9	1742.0	1643.4	1709.8	1675.6	1540.7	1339.3	1236.5
19124.2	62.5°	17905.8	14331.1	3413.6	1562.8	1502.4	1578.9	1560.8	1399.7	1313.1	1270.8
20566.2	65°	18578.4	14218.3	2610.0	1403.7	1383.6	1502.4	1464.1	1458.1	1389.6	1341.3
21035.4	67.5°	18165.6	13247.6	1893.1	1286.9	1315.1	1431.9	1578.9	1603.1	1476.2	1381.6
19714.3	70°	16355.1	11491.4	1409.7	1176.1	1228.5	1433.9	1800.4	1677.6	1448.0	1337.2
15811.3	72.5°	12442.0	8569.2	1093.6	1059.3	1115.7	1444.0	1899.1	1643.4	1367.5	1478.2
9850.1	75°	7115.2	4704.5	878.1	916.3	974.7	1349.3	1848.8	1554.7	1305.0	1357.4
3903.0	77.5°	2712.8	1808.5	725.0	775.4	783.4	1178.1	1768.2	1548.7	1242.6	1212.4
1170.1	80°	940.5	706.9	600.1	616.3	606.2	1047.2	1695.7	1347.3	1017.0	910.3
483.3	82.5°	384.7	352.4	475.3	455.1	431.0	813.6	1369.5	1101.6	831.8	735.1
233.6	85°	167.2	223.5	314.2	275.9	249.7	563.9	1097.6	932.4	702.9	606.2
76.5	87.5°	34.2	84.6	132.9	124.9	128.9	376.6	779.4	662.6	497.4	372.6
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>
3856.7
3846.6
3921.1
4048.0
4191.0
4323.9
4414.5
4466.9
4497.1
4499.1
4468.9
4416.5
4313.8
4124.5
3816.4
3409.6
2942.3
2481.2
2098.5
1836.7
1667.5
1538.6
1442.0
1339.3
1220.4
1256.7
1325.2
1365.4
1319.1
1466.1
1357.4
1105.6
880.1
727.0
604.2
292.0
0.0

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