

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: P951506

Luminaire Tested: **GALN-SB5C-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27874 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

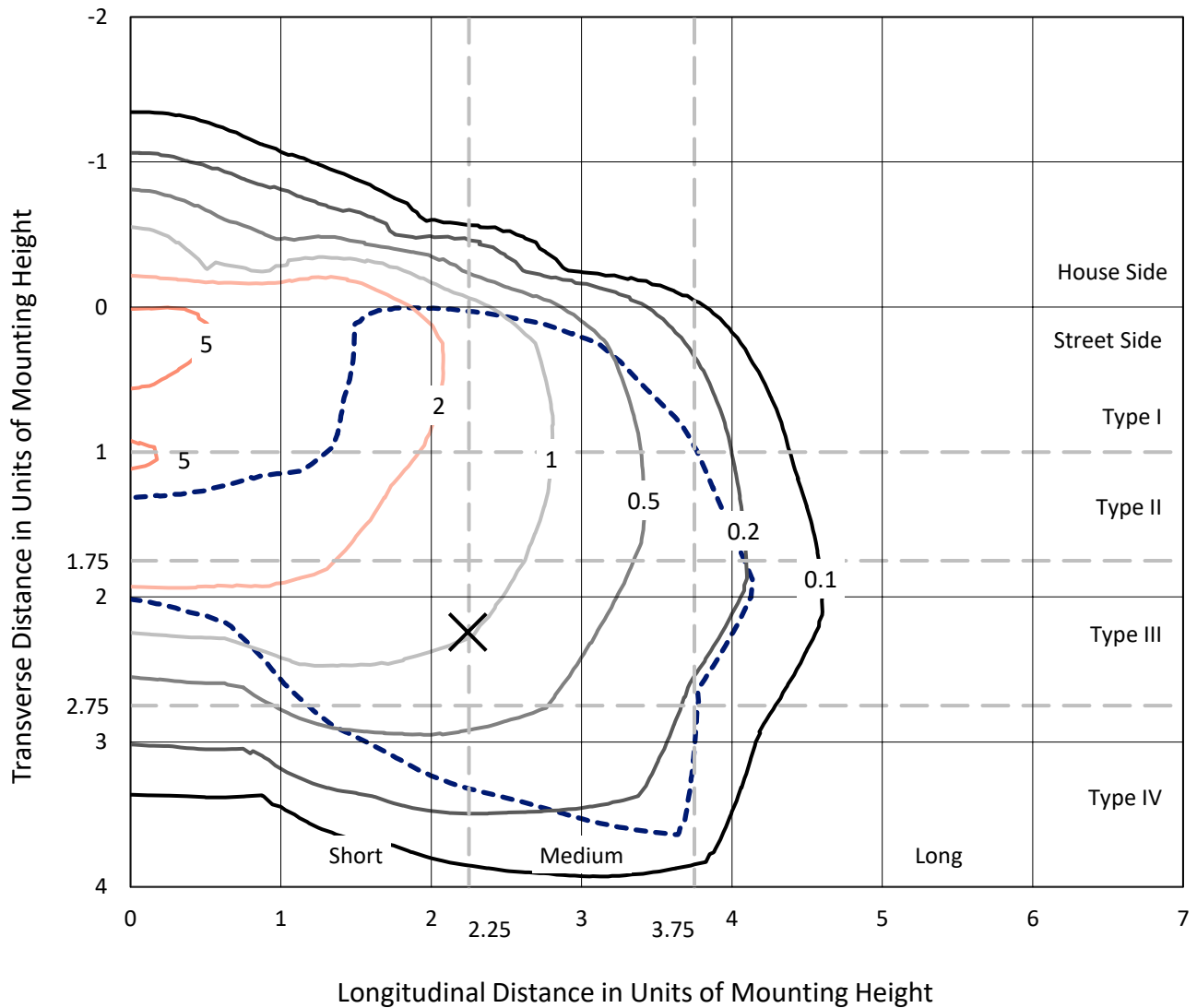
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

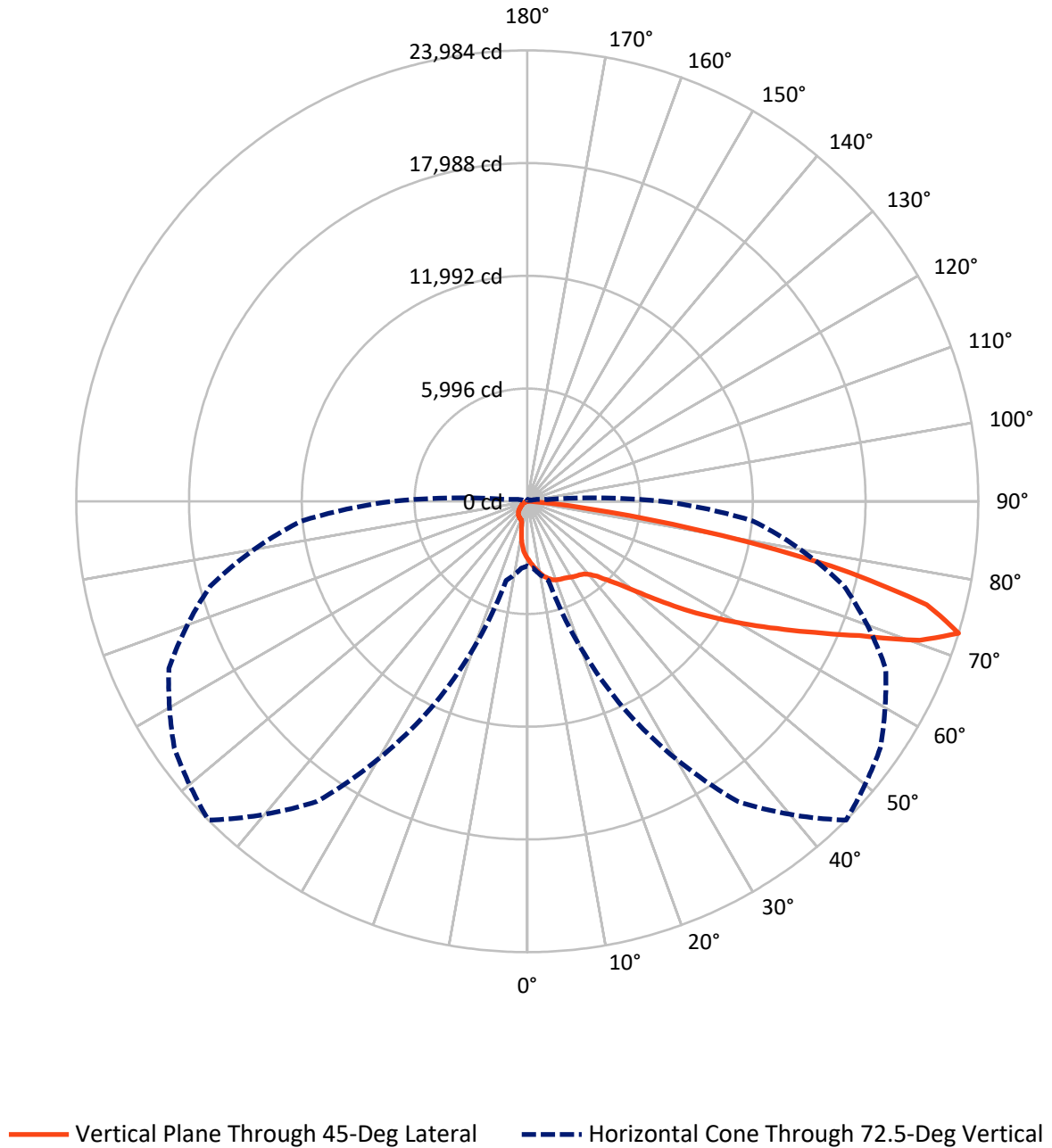
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB5C-850-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2928.8	0.0	2928.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24945.2	0.0	24945.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	27874.0	0.0	27874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.7	1.0
10°-20°	840.9	3.0
20°-30°	1380.8	5.0
30°-40°	1958.4	7.0
40°-50°	3237.0	11.6
50°-60°	5814.8	20.9
60°-70°	8074.2	29.0
70°-80°	5856.8	21.0
80°-90°	423.4	1.5
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°	27874.0	100.0
0°-180°	27874.0	100.0

Coefficient of Utilization



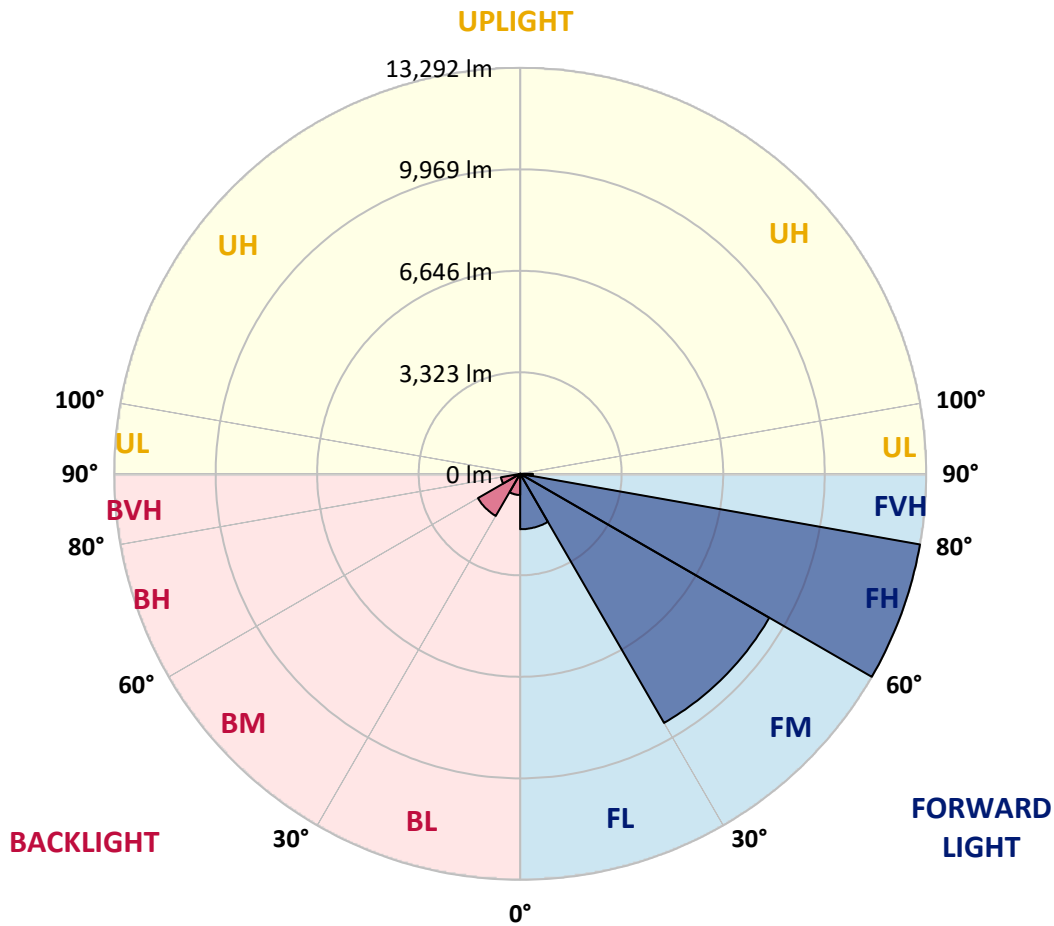
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.7	6.5			
FM (30°-60°)	9417.3	33.8			
FH (60°-80°)	13292.3	47.7			G5
FVH (80°-90°)	419.9	1.5			G3/500
BL (0°-30°)	693.7	2.5	B2/1000		
BM (30°-60°)	1592.8	5.7	B2/2500		
BH (60°-80°)	638.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7
2.5°	3335.2	3340.9	3337.1	3314.3	3276.3	3255.3	3243.9	3205.9	3181.1	3137.4
5°	3641.6	3664.4	3651.1	3605.4	3533.1	3481.7	3466.5	3388.5	3318.1	3236.3
7.5°	3966.9	3978.3	3953.6	3894.6	3797.6	3710.0	3696.7	3588.3	3476.0	3350.5
10°	4248.5	4261.8	4223.7	4138.1	4027.8	3919.3	3900.3	3780.4	3647.3	3493.2
12.5°	4484.4	4497.7	4448.3	4345.5	4223.7	4111.5	4092.5	3966.9	3820.4	3649.2
15°	4663.2	4688.0	4621.4	4511.0	4379.8	4267.5	4258.0	4134.3	3991.6	3801.4
17.5°	4767.9	4792.6	4729.8	4596.7	4484.4	4389.3	4377.9	4275.1	4141.9	3959.3
20°	4785.0	4807.8	4741.3	4625.2	4532.0	4455.9	4450.2	4376.0	4278.9	4103.9
22.5°	4733.6	4762.2	4701.3	4608.1	4543.4	4503.4	4495.8	4454.0	4398.8	4250.4
25°	4680.4	4703.2	4657.5	4575.7	4541.5	4537.7	4543.4	4535.8	4524.4	4398.8
27.5°	4676.6	4701.3	4649.9	4571.9	4552.9	4592.9	4598.6	4634.7	4644.2	4533.9
30°	4708.9	4726.0	4676.6	4594.8	4585.2	4676.6	4678.5	4743.2	4758.4	4648.0
32.5°	4779.3	4798.3	4748.9	4629.0	4615.7	4743.2	4748.9	4834.5	4859.2	4769.8
35°	4944.8	4967.7	4910.6	4724.1	4676.6	4805.9	4823.1	4923.9	4973.4	4899.2
37.5°	5357.7	5291.1	5213.1	4916.3	4815.5	4904.9	4933.4	5051.4	5138.9	5053.3
40°	6383.2	6173.9	5930.4	5243.5	5059.0	5116.1	5138.9	5256.9	5376.7	5293.0
42.5°	7922.4	7675.0	7283.1	5997.0	5426.2	5454.7	5471.8	5574.6	5743.9	5677.3
45°	9294.1	9204.7	8805.2	7283.1	6113.0	5972.2	5993.2	6046.4	6295.7	6270.9
47.5°	10348.2	10296.8	9988.6	8759.5	7273.6	6605.8	6664.8	6689.5	7049.1	7136.6
50°	11158.7	11139.7	10863.8	10072.3	8790.0	7540.0	7560.9	7507.6	8046.1	8262.9
52.5°	11923.5	11988.2	11784.6	11291.9	10409.1	8763.3	8759.5	8508.4	9235.2	9562.4
55°	12614.2	12637.0	12657.9	12536.2	12037.7	10156.0	10119.9	9708.9	10614.5	10953.2
57.5°	13263.0	13272.5	13458.9	13708.2	13732.9	11651.5	11584.9	11092.1	12121.4	12363.0
60°	13698.6	13742.4	14136.2	14828.8	15131.3	13194.5	13158.3	12656.0	13654.9	13767.1
62.5°	13070.8	13337.2	14330.3	15704.0	16451.7	14904.9	14887.8	14415.9	15268.3	15177.0
65°	10580.3	11031.2	12777.8	16295.7	17747.4	16815.1	16839.8	16337.5	16925.4	16628.6
67.5°	7401.1	7876.7	9942.9	16343.2	19195.2	19058.2	19200.9	18413.3	18685.3	18019.4
70°	5118.0	5363.4	6708.5	15319.6	20323.5	22148.0	22144.2	20962.7	20435.7	18653.0
72.5°	3441.8	3569.3	4356.9	12153.7	19493.9	23984.0	23873.7	22911.0	21025.5	17444.8
75°	1451.7	1544.9	2016.7	6830.3	15422.4	21942.6	21643.9	20247.4	18681.5	13736.7
77.5°	460.4	500.4	795.3	2444.8	8495.1	16493.5	16177.7	12644.6	12520.9	6891.2
80°	218.8	254.9	447.1	981.7	3342.8	8970.7	8926.9	5736.3	5386.2	1860.7
82.5°	95.1	112.3	247.3	525.1	1495.4	3200.2	3264.8	1952.1	1615.3	705.9
85°	30.4	40.0	114.2	241.6	631.7	795.3	785.8	464.2	650.7	384.3
87.5°	0.0	0.0	38.1	55.2	64.7	45.7	51.4	40.0	180.7	106.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951506
 CATALOG NUMBER: GALN-SB5C-850-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3053.7	0°	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7	3053.7
3091.7	2.5°	3068.9	3038.4	2985.2	2935.7	2891.9	2848.2	2821.5	2783.5	2779.7	2779.7
3141.2	5°	3089.8	3040.3	2945.2	2844.4	2728.3	2618.0	2507.6	2401.1	2366.8	2342.1
3221.1	7.5°	3150.7	3072.7	2922.4	2730.2	2509.5	2267.9	2098.6	1915.9	1845.5	1807.5
3327.6	10°	3238.2	3131.7	2903.4	2566.6	2208.9	1879.8	1638.1	1440.3	1364.2	1331.8
3443.7	12.5°	3335.2	3204.0	2869.1	2363.0	1879.8	1485.9	1250.0	1158.7	1147.3	1147.3
3582.6	15°	3451.3	3291.5	2810.1	2123.3	1535.4	1175.8	1092.1	1095.9	1107.3	1114.9
3717.7	17.5°	3571.2	3384.7	2716.9	1855.0	1231.0	1057.8	1059.7	1065.5	1075.0	1082.6
3864.2	20°	3700.5	3477.9	2593.2	1569.6	1055.9	1023.6	1029.3	1035.0	1042.6	1046.4
4001.1	22.5°	3839.4	3565.5	2446.7	1290.0	997.0	995.1	997.0	1002.7	1012.2	1012.2
4161.0	25°	3987.8	3662.5	2279.3	1086.4	966.5	966.5	970.3	974.1	981.7	981.7
4315.1	27.5°	4140.0	3751.9	2102.4	979.8	939.9	938.0	938.0	943.7	947.5	949.4
4467.3	30°	4307.5	3856.5	1925.4	957.0	919.0	909.4	903.7	907.5	911.3	913.2
4627.1	32.5°	4478.7	3957.4	1767.5	966.5	898.0	880.9	861.9	858.1	858.1	865.7
4792.6	35°	4669.0	4067.7	1645.7	998.9	886.6	839.0	808.6	791.5	793.4	804.8
4990.5	37.5°	4897.3	4200.9	1556.3	1027.4	879.0	791.5	742.0	721.1	707.8	721.1
5262.6	40°	5196.0	4396.9	1491.6	1050.2	869.5	736.3	669.7	635.5	610.7	618.3
5684.9	42.5°	5635.5	4705.1	1466.9	1052.1	848.6	671.6	595.5	549.8	513.7	515.6
6320.4	45°	6251.9	5192.2	1594.4	1027.4	802.9	601.2	517.5	456.6	433.8	428.1
7269.8	47.5°	7096.7	5901.8	1889.3	976.0	736.3	532.7	441.4	390.0	372.9	363.4
8516.0	50°	8228.7	6813.2	2216.5	919.0	669.7	468.0	378.6	346.3	334.9	325.3
9994.3	52.5°	9541.5	7737.8	2484.8	861.9	603.1	411.0	338.7	319.6	310.1	302.5
11421.2	55°	10745.8	8375.2	2469.6	801.0	538.4	365.3	310.1	298.7	287.3	279.7
12650.3	57.5°	11495.4	8464.6	2035.8	734.4	464.2	329.1	283.5	275.9	262.6	253.0
13713.9	60°	11839.8	7954.7	1426.9	646.9	390.0	294.9	254.9	251.1	234.0	220.7
14720.3	62.5°	11902.6	7007.2	951.3	538.4	325.3	262.6	226.4	220.7	197.9	175.0
15538.4	65°	11647.7	5652.6	658.3	420.5	277.8	228.3	194.1	182.6	157.9	135.1
15732.5	67.5°	10841.0	3968.8	458.5	302.5	235.9	180.7	154.1	150.3	131.3	112.3
14743.2	70°	9362.6	2262.2	306.3	226.4	186.5	123.7	121.8	125.6	106.5	91.3
12045.3	72.5°	7178.5	1035.0	190.3	165.5	127.5	83.7	97.0	98.9	81.8	68.5
7515.2	75°	4225.7	443.3	119.9	106.5	64.7	55.2	70.4	72.3	55.2	43.8
2747.3	77.5°	1438.4	167.4	76.1	62.8	32.3	30.4	45.7	45.7	30.4	17.1
551.8	80°	327.2	62.8	38.1	24.7	15.2	13.3	15.2	13.3	7.6	1.9
169.3	82.5°	93.2	24.7	15.2	9.5	5.7	5.7	1.9	0.0	0.0	0.0
59.0	85°	26.6	11.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
20.9	87.5°	11.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3053.7
2789.2
2353.5
1813.2
1331.8
1147.3
1114.9
1082.6
1048.3
1016.0
983.6
951.3
917.0
871.4
810.5
717.3
614.5
508.0
420.5
357.7
323.4
300.6
275.9
251.1
216.9
163.6
127.5
106.5
83.7
60.9
38.1
13.3
0.0
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