

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: P951355

Luminaire Tested: **GALN-SB5C-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30588 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

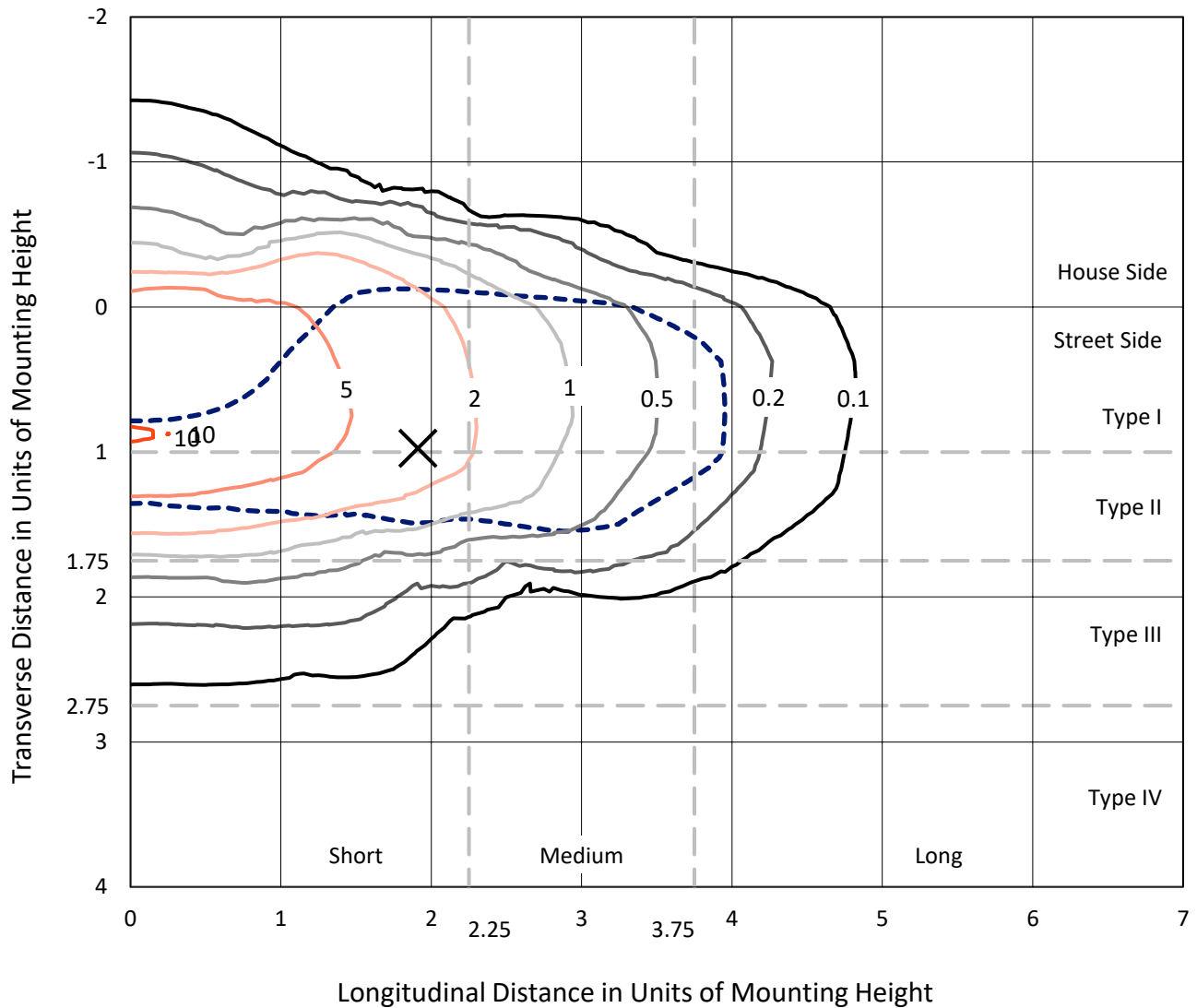
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

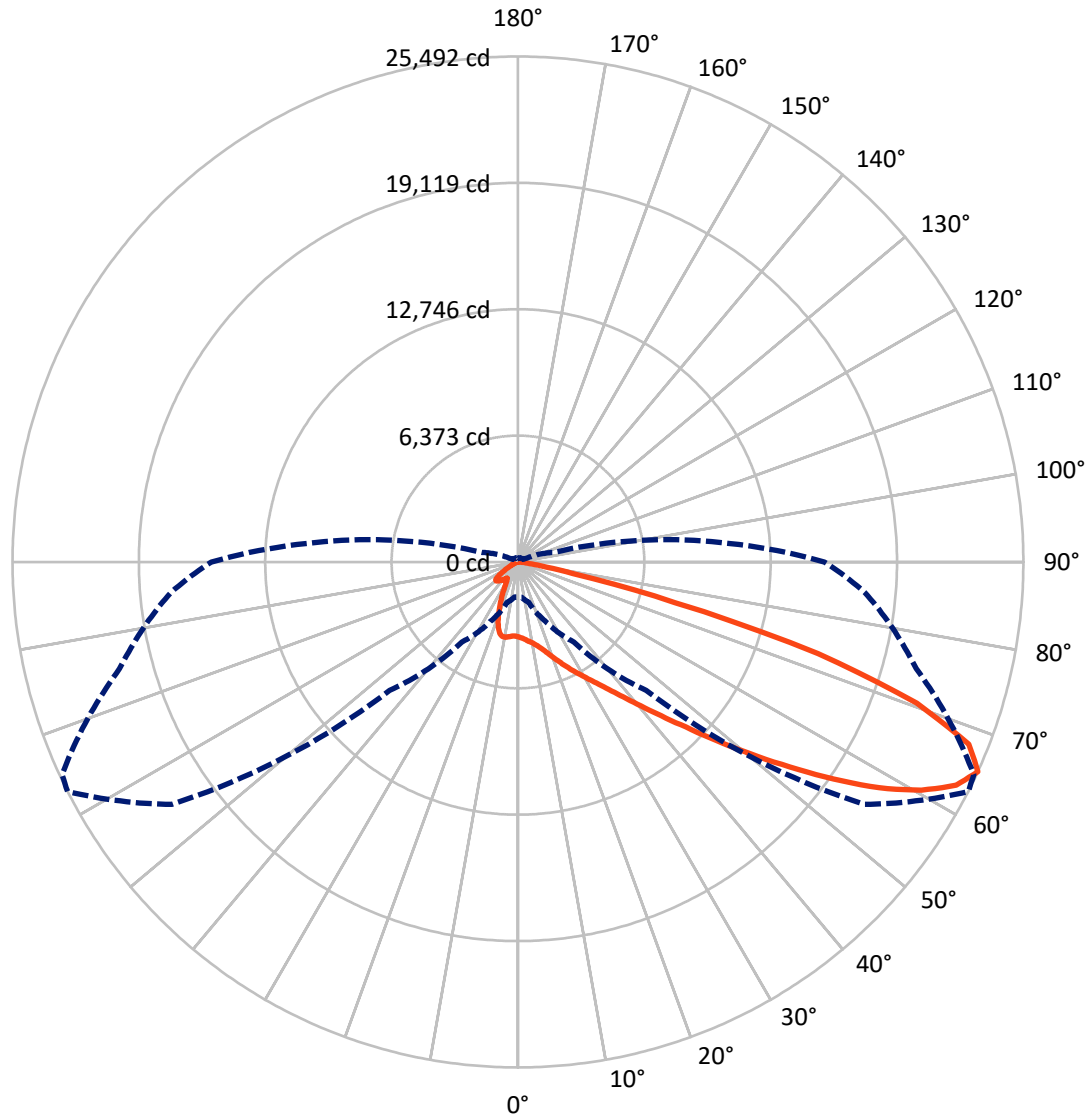
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4496.2	0.0	4496.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26091.8	0.0	26091.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	30588.0	0.0	30588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.7	1.2
10°-20°	986.9	3.2
20°-30°	1718.5	5.6
30°-40°	3097.3	10.1
40°-50°	6143.0	20.1
50°-60°	8367.8	27.4
60°-70°	6679.1	21.8
70°-80°	3022.5	9.9
80°-90°	217.2	0.7
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°	30588.0	100.0
0°-180°	30588.0	100.0

Coefficient of Utilization



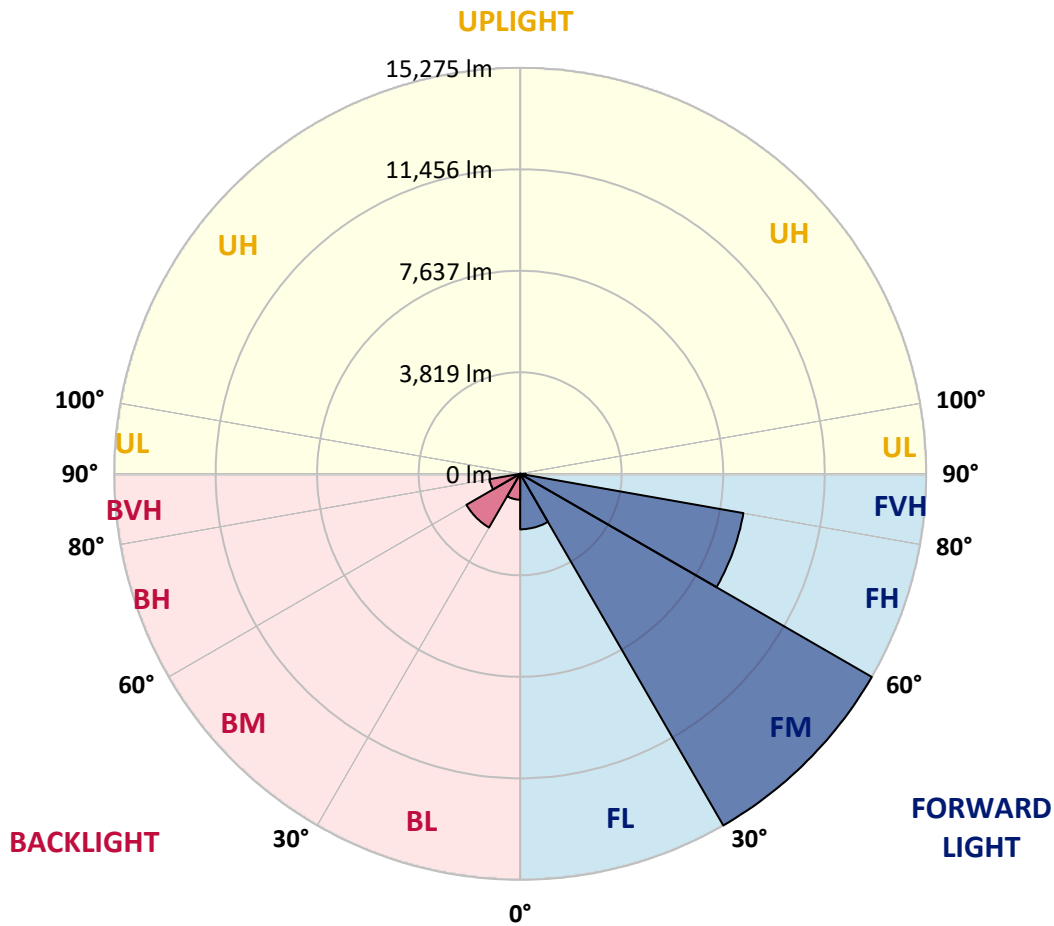
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.0	6.8			
FM (30°-60°)	15274.9	49.9			
FH (60°-80°)	8527.8	27.9			G4/12000
FVH (80°-90°)	201.1	0.7			G2/225
BL (0°-30°)	973.1	3.2	B2/1000		
BM (30°-60°)	2333.3	7.6	B2/2500		
BH (60°-80°)	1173.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1
2.5°	3863.5	3853.0	3867.7	3861.4	3857.2	3848.8	3844.6	3840.4	3832.0	3825.6
5°	3874.0	3867.7	3882.5	3895.1	3907.7	3920.3	3926.6	3935.1	3926.6	3909.8
7.5°	3785.7	3781.5	3813.0	3850.9	3907.7	3956.1	4008.7	4038.2	4040.3	4034.0
10°	3779.3	3768.8	3800.4	3846.7	3920.3	4006.6	4099.2	4162.3	4170.7	4198.1
12.5°	3878.2	3867.7	3911.9	3962.4	4038.2	4128.7	4242.3	4330.7	4343.3	4381.2
15°	4044.5	4029.8	4080.3	4145.5	4242.3	4345.4	4465.4	4545.3	4555.8	4602.1
17.5°	4238.1	4223.4	4282.3	4351.7	4456.9	4597.9	4736.8	4825.2	4837.8	4867.3
20°	4486.4	4467.5	4513.8	4576.9	4688.4	4856.8	5023.0	5149.3	5147.1	5147.1
22.5°	4774.7	4745.2	4785.2	4835.7	4940.9	5145.0	5366.0	5515.4	5515.4	5456.5
25°	5084.0	5054.6	5098.7	5145.0	5237.6	5469.1	5727.9	5913.1	5921.5	5820.5
27.5°	5471.2	5433.3	5467.0	5521.7	5576.4	5812.1	6119.3	6334.0	6338.2	6182.5
30°	6216.1	6108.8	6003.6	5944.7	5969.9	6203.5	6531.8	6769.6	6790.6	6576.0
32.5°	7579.7	7558.7	7188.3	6704.3	6451.8	6624.4	6992.6	7278.8	7291.4	7015.8
35°	9698.8	9673.5	9078.0	8156.3	7333.5	7188.3	7552.4	7891.2	7882.8	7571.3
37.5°	12228.2	12205.0	11420.1	10187.0	8854.9	8040.6	8274.2	8629.8	8682.4	8274.2
40°	14389.3	14303.0	13806.4	12617.5	10875.1	9454.7	9301.1	9536.7	9591.5	9107.5
42.5°	16026.4	15952.8	15700.3	14957.5	13320.3	11546.4	10511.0	10601.5	10662.6	10081.8
45°	16874.5	16857.6	16958.7	16889.2	15811.8	14113.6	12240.8	11864.1	11887.3	11161.3
47.5°	16994.4	16986.0	17446.9	18099.2	17954.0	17009.2	14460.8	13438.1	13356.1	12379.7
50°	16287.4	16270.5	17154.4	18377.0	19384.9	19441.7	16981.8	15212.1	15031.1	13640.2
52.5°	14029.5	14025.2	15477.2	17512.1	19887.9	21571.3	19473.3	17160.7	16857.6	14974.3
55°	10795.1	10873.0	12537.5	14942.7	18970.4	22596.1	21710.2	19323.9	18858.9	16316.8
57.5°	7647.1	7760.7	9406.3	11548.5	16125.3	21990.1	23223.2	21491.3	20990.5	17655.2
60°	4107.6	4208.6	5856.3	8413.0	11996.7	19730.0	24020.7	23372.6	22899.1	18926.2
62.5°	2447.3	2481.0	3162.8	5431.2	8114.2	15073.2	23681.9	24805.6	24416.3	19993.1
65°	1757.1	1763.4	2106.4	3316.4	4926.2	9158.0	21306.2	25491.6	25371.7	20796.9
67.5°	1479.3	1475.1	1618.2	2203.2	3356.4	4587.4	16329.5	24521.6	25030.8	21306.2
70°	1268.9	1275.2	1443.6	1614.0	2523.1	2596.7	8118.4	21350.4	22436.2	21440.8
72.5°	944.8	965.9	1121.6	1470.9	1904.4	1786.6	2802.9	15830.7	17794.1	20201.4
75°	667.1	677.6	789.1	1237.3	1420.4	1300.5	1430.9	8183.7	10700.4	15487.7
77.5°	513.5	532.4	597.6	864.9	1399.4	913.3	875.4	2832.4	4351.7	9355.8
80°	277.8	311.4	431.4	625.0	982.7	646.0	433.5	1127.9	1475.1	4374.9
82.5°	143.1	159.9	300.9	450.3	559.7	564.0	214.6	469.3	608.1	1351.0
85°	56.8	69.4	202.0	248.3	288.3	277.8	96.8	189.4	218.8	374.6
87.5°	12.6	21.0	73.7	56.8	54.7	58.9	23.1	44.2	42.1	44.2
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°
3775.1	0°	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1	3775.1
3800.4	2.5°	3798.3	3789.9	3766.7	3741.5	3712.0	3695.2	3684.7	3682.5	3667.8	3657.3
3884.6	5°	3861.4	3853.0	3808.8	3756.2	3699.4	3655.2	3613.1	3575.2	3520.5	3510.0
4006.6	7.5°	3987.7	3964.5	3893.0	3821.4	3714.1	3585.7	3430.0	3251.2	3091.2	3042.8
4168.6	10°	4143.4	4111.8	4021.3	3895.1	3657.3	3308.0	2931.3	2582.0	2304.2	2226.4
4360.1	12.5°	4320.2	4292.8	4172.9	3939.3	3419.5	2786.1	2209.5	1776.0	1506.7	1439.3
4564.3	15°	4530.6	4490.6	4324.4	3871.9	2994.4	2116.9	1517.2	1260.5	1163.7	1151.1
4797.8	17.5°	4753.6	4688.4	4459.0	3629.9	2422.1	1504.6	1172.1	1098.5	1056.4	1043.7
5033.5	20°	4957.8	4873.6	4539.0	3263.8	1809.7	1172.1	1050.1	1001.7	963.8	949.0
5269.2	22.5°	5161.9	5041.9	4539.0	2765.1	1357.3	1039.5	963.8	919.6	875.4	856.5
5521.7	25°	5374.4	5214.5	4459.0	2209.5	1092.1	953.3	881.7	833.3	795.4	772.3
5761.6	27.5°	5580.6	5359.7	4276.0	1683.5	972.2	877.5	806.0	759.7	723.9	707.0
6022.5	30°	5776.3	5502.8	4019.2	1277.3	894.3	803.8	736.5	696.5	660.8	643.9
6361.3	32.5°	6041.5	5683.7	3745.7	1047.9	827.0	734.4	673.4	635.5	603.9	591.3
6801.1	35°	6409.7	5951.0	3510.0	1029.0	770.2	677.6	616.6	580.8	549.2	538.7
7369.3	37.5°	6931.6	6382.4	3385.8	1155.3	723.9	627.1	570.3	532.4	502.9	494.5
8091.1	40°	7575.5	6967.4	3453.2	1281.5	692.3	582.9	528.2	490.3	465.1	454.5
8920.2	42.5°	8339.4	7689.2	3825.6	1378.3	671.3	545.0	488.2	446.1	429.3	425.1
9860.8	45°	9216.9	8482.5	4395.9	1481.4	637.6	509.2	448.2	416.7	404.0	401.9
10883.5	47.5°	10214.3	9353.7	5056.7	1609.8	603.9	475.6	416.7	395.6	385.1	380.9
11950.4	50°	11203.4	10231.2	5736.4	1681.3	576.6	444.0	391.4	374.6	366.2	364.0
13078.3	52.5°	12238.7	11133.9	6285.6	1614.0	553.4	418.8	370.4	357.7	349.3	347.2
14117.8	55°	13225.6	11864.1	6380.3	1369.9	507.1	393.5	347.2	340.9	330.4	330.4
15172.1	57.5°	14075.7	12230.3	5711.1	1005.9	460.8	355.6	324.1	317.8	309.3	307.2
16123.2	60°	14856.4	12125.1	4408.5	677.6	410.3	317.8	294.6	290.4	282.0	271.5
16950.2	62.5°	15296.2	11662.1	3015.5	441.9	359.8	277.8	260.9	258.8	239.9	218.8
17562.6	65°	15462.5	10711.0	1881.3	322.0	300.9	237.8	225.2	221.0	193.6	170.4
17909.8	67.5°	15317.3	9145.3	949.0	254.6	237.8	197.8	185.2	185.2	166.2	145.2
17888.8	70°	14736.5	6855.9	399.8	204.1	183.1	151.5	151.5	159.9	141.0	117.8
16960.8	72.5°	13476.0	4612.7	212.5	155.7	136.8	107.3	124.2	130.5	111.5	88.4
13882.2	75°	10713.1	2813.5	147.3	115.7	86.3	75.8	94.7	98.9	75.8	58.9
9517.8	77.5°	7327.2	1616.1	98.9	73.7	54.7	44.2	65.2	61.0	40.0	27.4
3669.9	80°	3217.5	673.4	56.8	33.7	21.0	16.8	23.1	16.8	12.6	8.4
502.9	82.5°	376.7	157.8	21.0	12.6	8.4	4.2	2.1	0.0	0.0	0.0
153.6	85°	77.9	18.9	10.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
27.4	87.5°	14.7	4.2	2.1	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

180°
3775.1
3667.8
3505.8
3019.7
2196.9
1420.4
1138.4
1037.4
940.6
845.9
763.9
707.0
646.0
591.3
538.7
492.4
452.4
425.1
399.8
380.9
364.0
347.2
328.3
305.1
269.4
214.6
168.3
143.1
115.7
88.4
56.8
29.5
8.4
0.0
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