

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: P941816

Luminaire Tested: **GALN-SB5C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31390 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

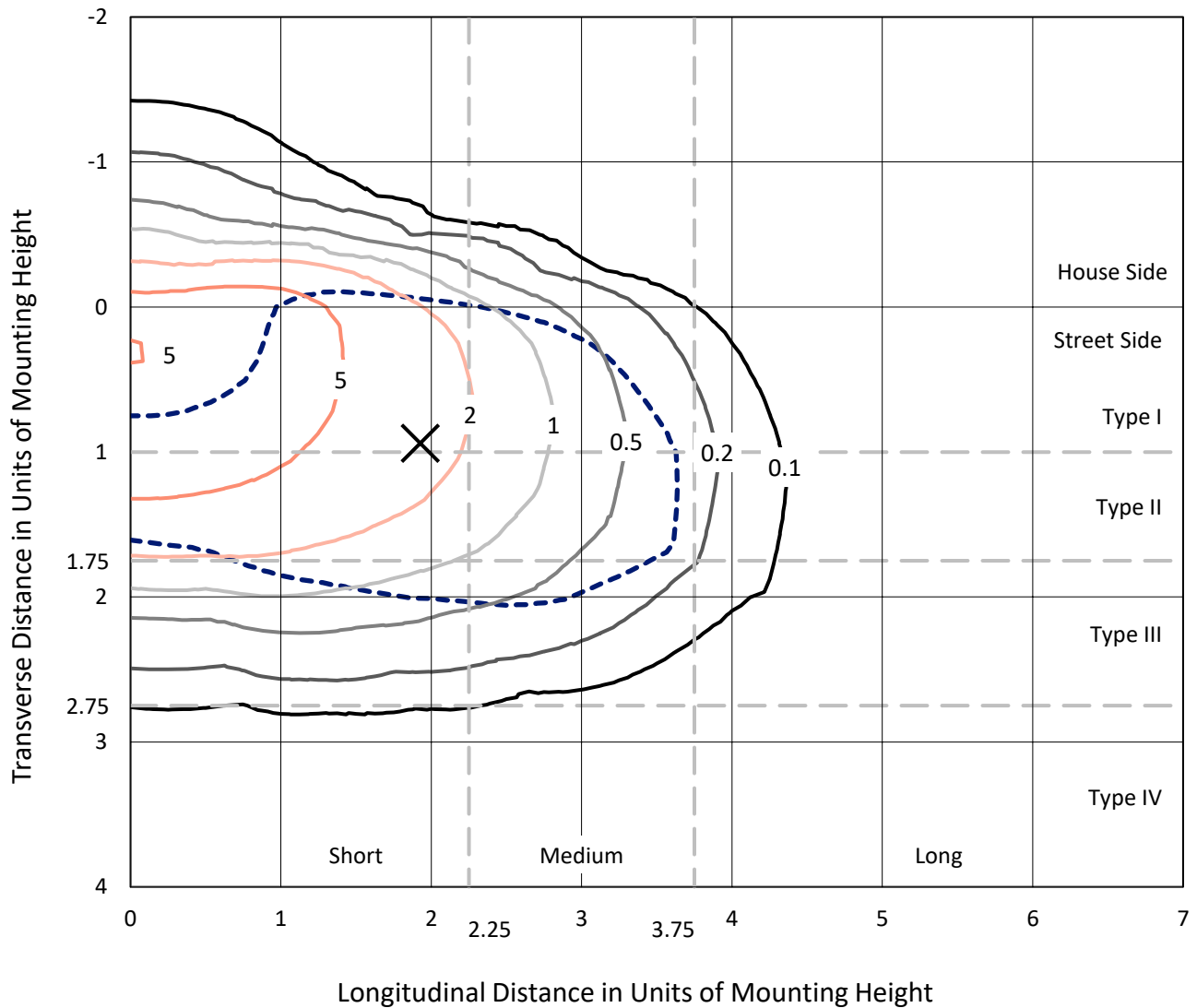
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

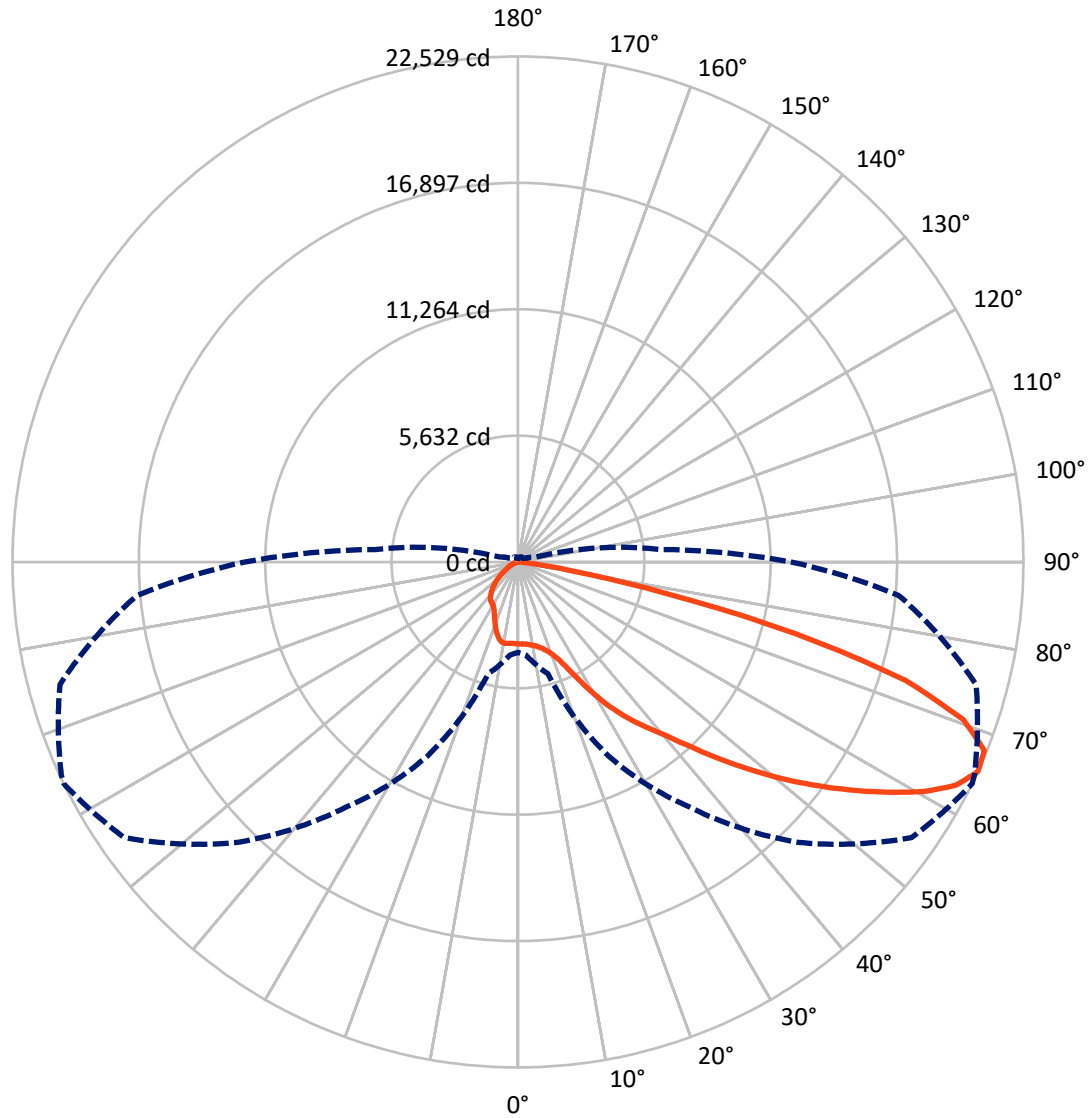
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4197.8	0.0	4197.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27192.2	0.0	27192.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	31390.0	0.0	31390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	1.1
10°-20°	913.6	2.9
20°-30°	1731.2	5.5
30°-40°	3503.1	11.2
40°-50°	5967.6	19.0
50°-60°	8115.5	25.9
60°-70°	7620.9	24.3
70°-80°	3053.3	9.7
80°-90°	147.9	0.5
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°	31390.0	100.0
0°-180°	31390.0	100.0

Coefficient of Utilization



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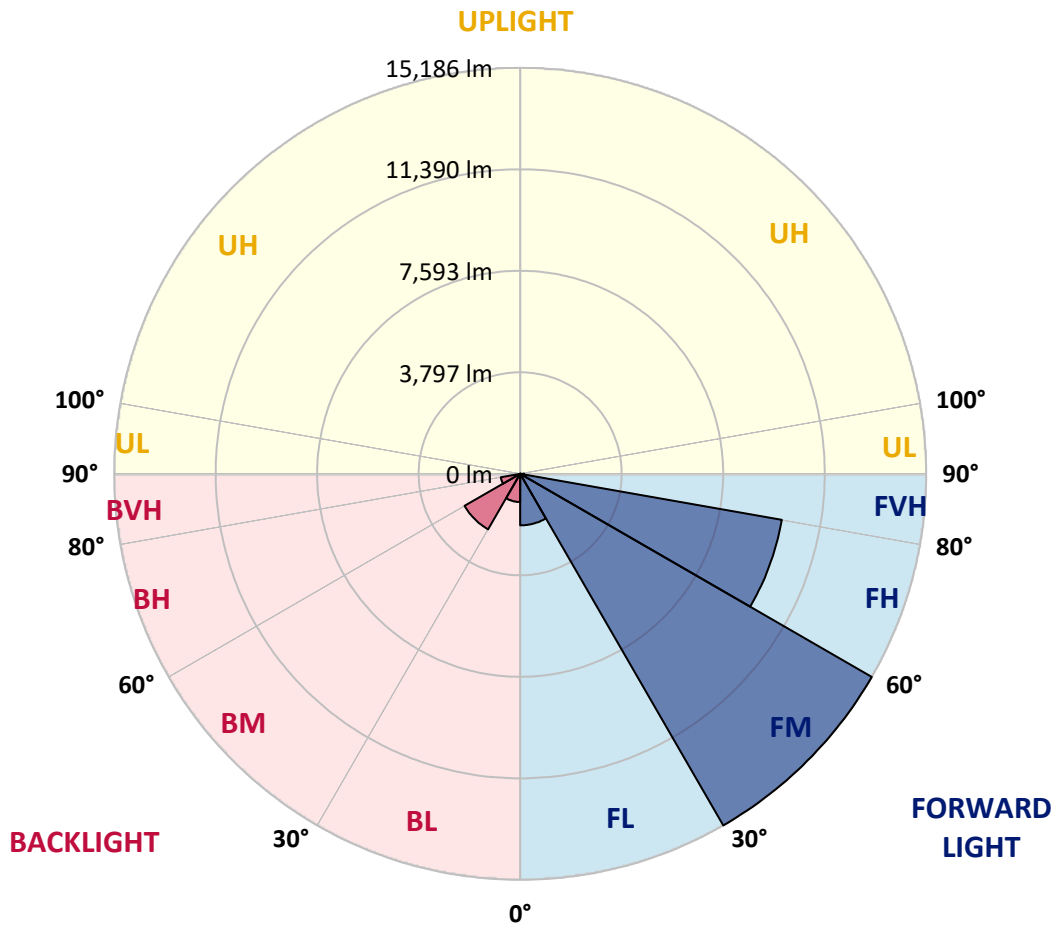
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.7	6.1			
FM (30°-60°)	15186.4	48.4			
FH (60°-80°)	9937.4	31.7			G4/12000
FVH (80°-90°)	140.7	0.4			G2/225
BL (0°-30°)	1053.9	3.4	B3/2500		
BM (30°-60°)	2399.9	7.6	B2/2500		
BH (60°-80°)	736.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0
2.5°	3638.4	3663.6	3657.3	3651.0	3648.9	3653.1	3655.2	3653.1	3653.1	3653.1
5°	3568.9	3590.0	3590.0	3604.7	3625.7	3651.0	3669.9	3674.1	3678.3	3684.7
7.5°	3436.3	3453.2	3465.8	3514.2	3566.8	3634.1	3691.0	3720.4	3724.6	3747.8
10°	3345.9	3366.9	3387.9	3438.4	3514.2	3615.2	3712.0	3783.6	3794.1	3848.8
12.5°	3341.6	3362.7	3390.0	3444.8	3533.1	3640.5	3758.3	3861.4	3880.4	3960.3
15°	3385.8	3411.1	3436.3	3503.7	3598.4	3728.8	3855.1	3983.5	4002.4	4116.0
17.5°	3476.3	3510.0	3528.9	3596.3	3697.3	3842.5	4008.7	4156.0	4172.9	4305.4
20°	3655.2	3695.2	3701.5	3756.2	3855.1	4010.8	4208.6	4391.7	4412.7	4564.3
22.5°	4025.6	4082.4	4031.9	4059.2	4147.6	4303.3	4518.0	4749.4	4778.9	4951.4
25°	4677.9	4757.9	4627.4	4581.1	4619.0	4781.0	5050.4	5342.9	5376.5	5515.4
27.5°	5959.4	5856.3	5658.5	5464.9	5351.3	5443.9	5746.9	6108.8	6150.9	6285.6
30°	7367.2	7276.7	7009.5	6580.2	6310.8	6296.1	6576.0	6980.0	7028.4	7156.8
32.5°	8777.1	8690.8	8400.4	7872.2	7405.1	7173.6	7367.2	7815.4	7840.7	7922.7
35°	10163.8	10075.5	9785.1	9244.2	8669.8	8143.7	8105.8	8610.8	8619.3	8705.5
37.5°	11559.0	11485.3	11176.0	10645.7	10079.7	9353.7	9002.3	9364.2	9374.7	9458.9
40°	12554.3	12585.9	12373.4	11963.0	11476.9	10683.6	10008.1	10165.9	10102.8	10243.8
42.5°	13408.7	13471.8	13286.6	13080.4	12798.4	12099.8	11253.9	11226.5	11125.5	11201.3
45°	14147.3	14199.9	14033.7	13985.3	13979.0	13488.6	12615.4	12451.2	12310.2	12295.5
47.5°	14418.8	14519.8	14591.3	14753.3	15069.0	14862.8	14023.1	13768.5	13610.7	13495.0
50°	14521.9	14629.2	14873.3	15344.6	16091.7	16180.1	15424.6	15138.4	14944.8	14734.4
52.5°	14383.0	14574.5	14902.7	15696.1	16779.8	17236.4	16769.3	16518.9	16297.9	15954.9
55°	13564.4	13755.9	14427.2	15691.9	17122.8	17977.1	18040.3	17928.7	17680.4	17139.6
57.5°	11838.9	12122.9	13185.6	15157.4	17116.5	18614.8	19286.0	19366.0	19088.2	18313.8
60°	9448.4	9833.5	11129.7	13972.6	16588.3	18959.9	20378.2	20778.0	20483.4	19471.2
62.5°	6592.8	7038.9	8265.7	12116.6	15380.4	18711.6	21175.7	21914.3	21691.3	20506.5
65°	4021.3	4164.4	5153.5	9534.6	13326.6	17672.0	21421.9	22528.8	22455.1	21139.9
67.5°	2678.8	2798.7	3082.8	6538.1	10344.8	15595.1	20832.7	22421.5	22442.5	21036.8
70°	1614.0	1717.1	1902.3	3802.5	6704.3	12343.9	19008.3	21053.7	21175.7	19658.5
72.5°	665.0	734.4	902.8	1723.4	3472.1	7834.4	15136.3	18076.0	18360.1	16529.4
75°	376.7	412.4	530.3	864.9	1506.7	3651.0	9168.5	12832.1	13250.9	11392.8
77.5°	250.4	267.2	343.0	559.7	848.0	1245.8	3918.2	6685.4	7485.0	6222.5
80°	168.3	183.1	235.7	374.6	551.3	534.5	1247.9	2476.8	3047.0	2138.0
82.5°	113.6	115.7	168.3	246.2	349.3	258.8	368.3	770.2	968.0	618.7
85°	65.2	63.1	124.2	143.1	155.7	107.3	111.5	231.5	303.0	260.9
87.5°	8.4	12.6	48.4	37.9	21.0	23.1	23.1	40.0	58.9	63.1
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°
3651.0	0°	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0
3655.2	2.5°	3655.2	3653.1	3646.8	3640.5	3625.7	3617.3	3621.5	3617.3	3615.2	3617.3
3682.5	5°	3682.5	3676.2	3659.4	3638.4	3608.9	3573.1	3550.0	3516.3	3484.7	3465.8
3756.2	7.5°	3756.2	3749.9	3726.7	3667.8	3573.1	3423.7	3286.9	3167.0	3076.5	3023.9
3874.0	10°	3874.0	3863.5	3827.7	3697.3	3449.0	3122.8	2851.3	2626.2	2478.9	2409.4
4012.9	12.5°	4012.9	4000.3	3937.2	3669.9	3213.3	2704.0	2329.5	2079.1	1942.3	1881.3
4172.9	15°	4177.1	4160.2	4036.1	3539.5	2870.3	2241.1	1898.1	1710.8	1622.4	1567.7
4377.0	17.5°	4381.2	4351.7	4109.7	3343.8	2497.8	1887.6	1632.9	1492.0	1414.1	1361.5
4644.2	20°	4646.3	4597.9	4168.6	3110.2	2154.8	1664.5	1454.1	1336.2	1277.3	1231.0
5023.0	22.5°	5016.7	4947.2	4240.2	2857.7	1912.8	1510.9	1321.5	1235.2	1186.8	1134.2
5551.2	25°	5475.4	5393.4	4328.6	2624.1	1746.6	1378.3	1224.7	1153.2	1096.3	1035.3
6243.5	27.5°	6117.2	5969.9	4433.8	2432.6	1603.5	1264.7	1136.3	1056.4	991.1	940.6
7028.4	30°	6832.7	6590.7	4526.4	2316.8	1473.0	1159.5	1020.6	940.6	879.6	843.8
7733.4	32.5°	7510.3	7182.0	4587.4	2266.3	1355.2	1039.5	894.3	808.1	761.8	751.2
8423.6	35°	8150.0	7716.5	4581.1	2217.9	1250.0	919.6	770.2	681.8	646.0	652.3
9166.4	37.5°	8886.5	8286.8	4536.9	2142.2	1163.7	810.2	662.9	585.0	553.4	555.5
10069.1	40°	9743.0	8945.4	4509.5	1999.1	1069.0	709.2	574.5	511.3	488.2	479.8
11020.3	42.5°	10656.2	9583.0	4513.8	1837.1	951.1	618.7	513.5	460.8	439.8	433.5
12078.8	45°	11573.7	10191.2	4520.1	1668.7	827.0	549.2	469.3	425.1	412.4	404.0
13152.0	47.5°	12436.5	10708.8	4402.2	1487.7	704.9	496.6	433.5	404.0	393.5	383.0
14229.4	50°	13240.3	11054.0	4118.1	1277.3	608.1	454.5	406.1	385.1	374.6	364.0
15205.8	52.5°	13865.3	11108.7	3648.9	1060.6	540.8	423.0	389.3	370.4	357.7	347.2
15994.9	55°	14143.1	10765.7	2981.8	858.6	488.2	395.6	372.5	353.5	338.8	328.3
16615.7	57.5°	14071.5	10043.9	2325.3	690.2	437.7	368.3	351.4	338.8	322.0	305.1
17118.6	60°	13720.1	9078.0	1752.9	574.5	391.4	338.8	328.3	317.8	294.6	269.4
17312.2	62.5°	13112.0	7863.8	1250.0	475.6	340.9	305.1	300.9	292.5	258.8	212.5
17026.0	65°	12181.9	6388.7	841.7	395.6	292.5	267.2	269.4	254.6	210.4	157.8
15978.0	67.5°	10822.5	4671.6	538.7	324.1	244.1	223.1	225.2	216.7	178.9	134.7
13991.6	70°	9090.6	3093.3	351.4	246.2	195.7	172.6	185.2	187.3	151.5	109.4
10738.3	72.5°	6664.4	1826.5	246.2	183.1	143.1	119.9	151.5	155.7	122.1	82.1
6460.2	75°	3798.3	867.0	185.2	132.6	88.4	84.2	117.8	117.8	84.2	54.7
2796.6	77.5°	1595.1	361.9	130.5	86.3	50.5	48.4	80.0	73.7	42.1	25.3
681.8	80°	460.8	162.0	69.4	42.1	21.0	18.9	31.6	23.1	10.5	4.2
258.8	82.5°	181.0	71.5	27.4	16.8	8.4	8.4	4.2	0.0	0.0	0.0
147.3	85°	107.3	29.5	12.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
31.6	87.5°	27.4	6.3	4.2	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>
3651.0
3625.7
3470.0
3026.0
2403.1
1874.9
1569.8
1357.3
1222.6
1125.8
1029.0
930.1
837.5
757.6
652.3
564.0
477.7
431.4
404.0
383.0
364.0
345.1
326.2
303.0
265.1
208.3
153.6
128.4
105.2
77.9
50.5
25.3
4.2
0.0
0.0
0.0
0.0

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