

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: P955807

Luminaire Tested: **GALN-SB8C-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955807
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-SB8C-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 28171 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

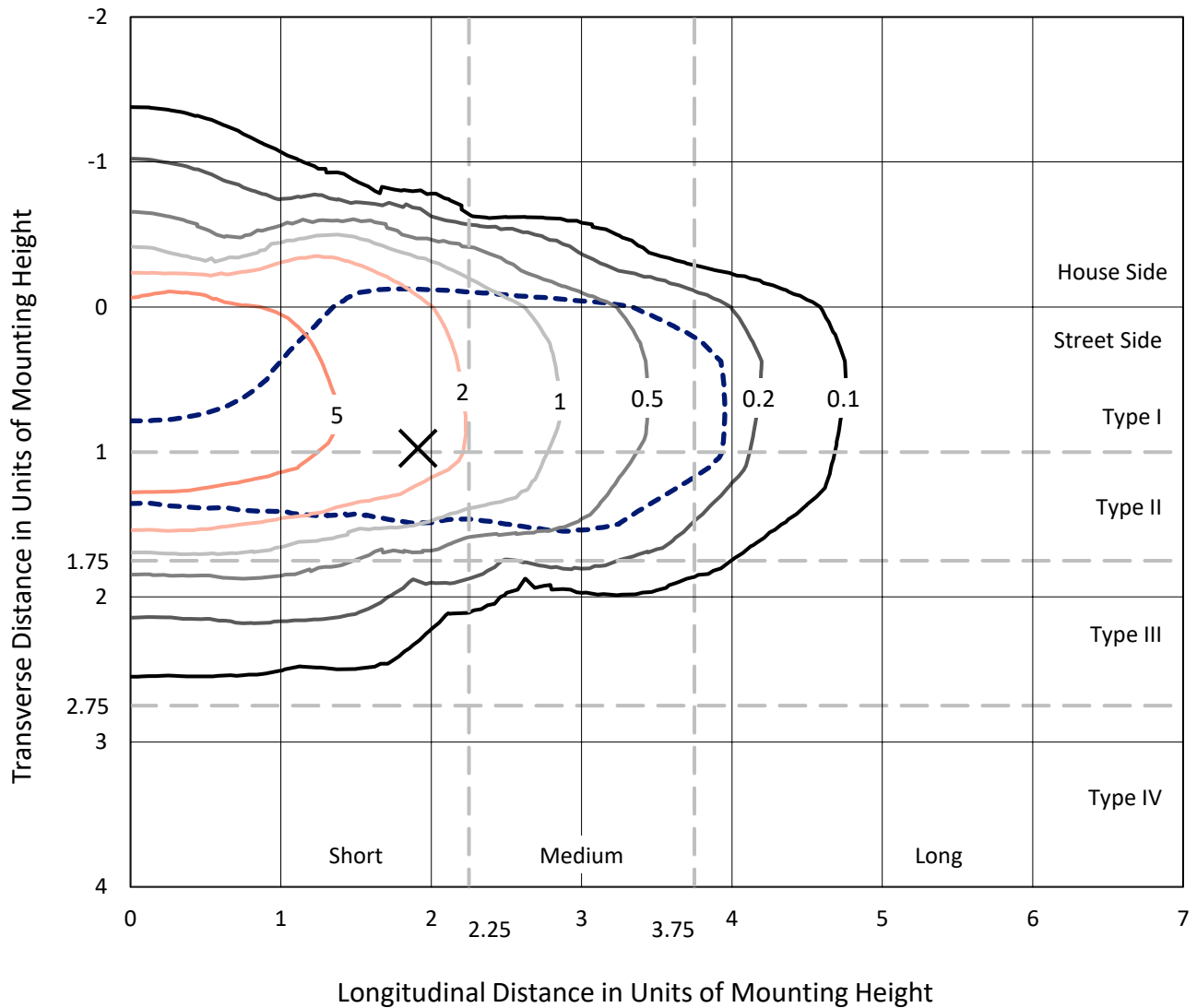
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955807
 CATALOG NUMBER: GALN-SB8C-927-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

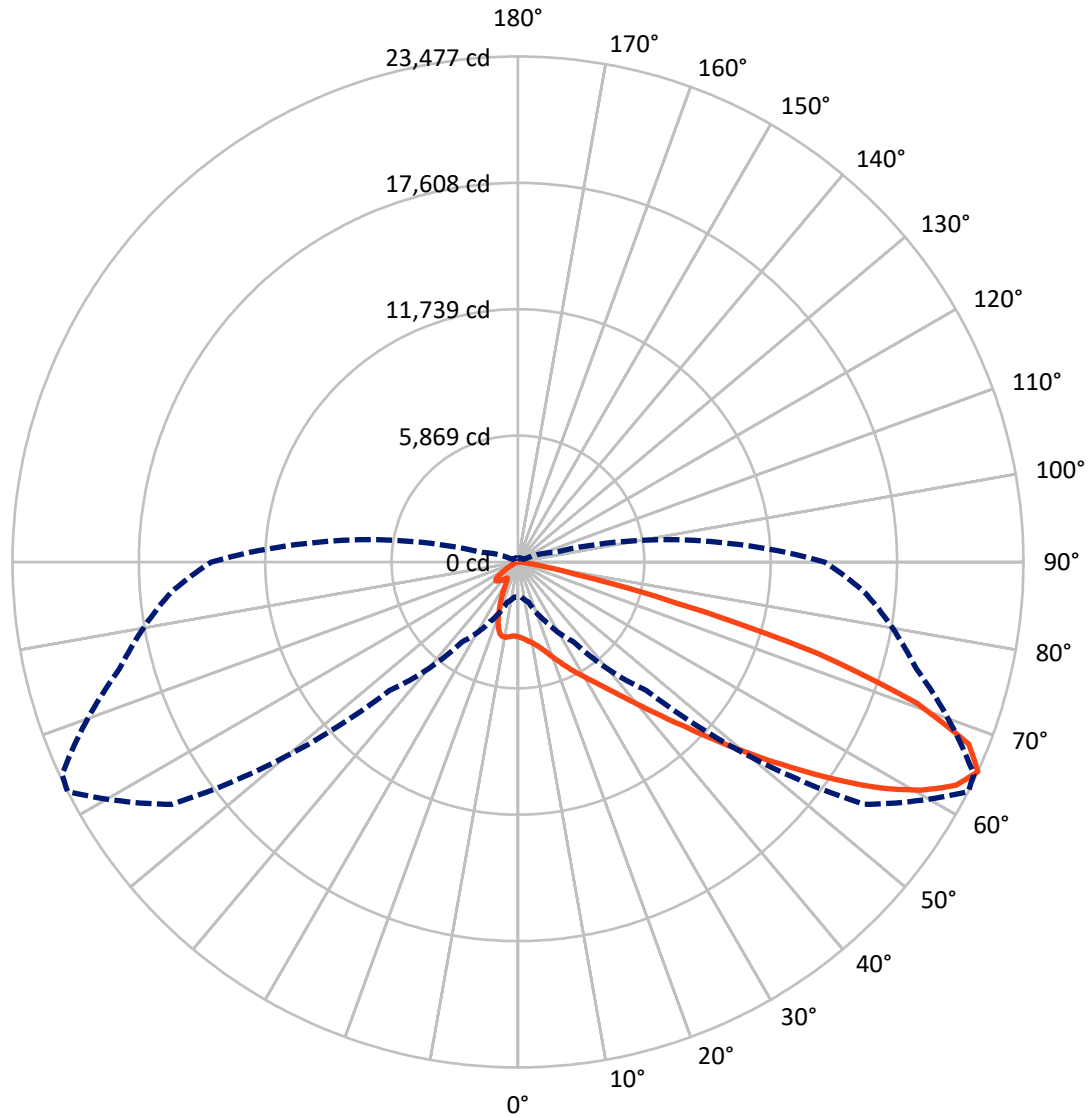
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

REPORT NUMBER: P955807
CATALOG NUMBER: GALN-SB8C-927-U-T2U-HSS

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	4140.9	0.0	4140.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24030.1	0.0	24030.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	28171.0	0.0	28171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.6	1.2
10°-20°	908.9	3.2
20°-30°	1582.7	5.6
30°-40°	2852.6	10.1
40°-50°	5657.6	20.1
50°-60°	7706.6	27.4
60°-70°	6151.3	21.8
70°-80°	2783.6	9.9
80°-90°	200.1	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°	28171.0	100.0
0°-180°	28171.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955807

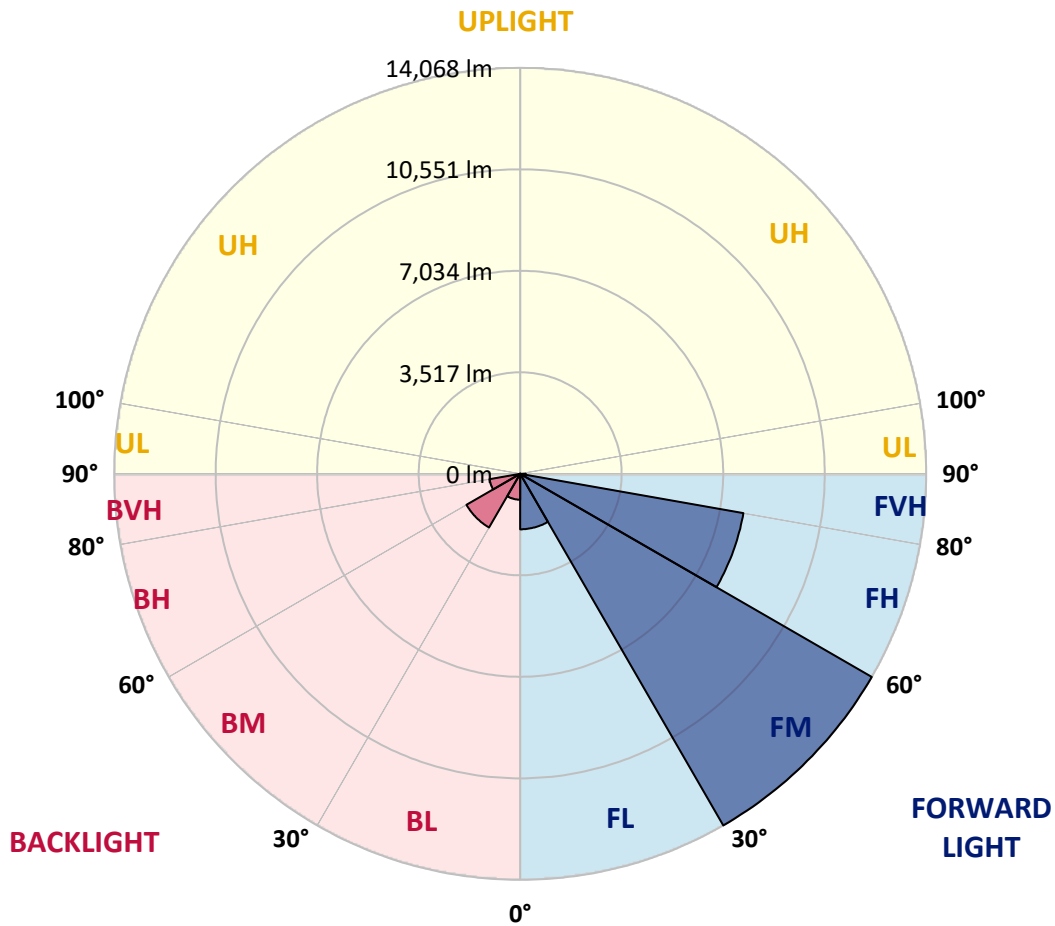
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.0	6.8			
FM (30°-60°)	14067.9	49.9			
FH (60°-80°)	7853.9	27.9			G4/12000
FVH (80°-90°)	185.2	0.7			G2/225
BL (0°-30°)	896.2	3.2	B2/1000		
BM (30°-60°)	2148.9	7.6	B2/2500		
BH (60°-80°)	1081.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.8	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



REPORT NUMBER: P955807

CATALOG NUMBER: GALN-SB8C-927-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8
2.5°	3558.2	3548.5	3562.1	3556.3	3552.4	3544.7	3540.8	3536.9	3529.2	3523.3
5°	3567.9	3562.1	3575.7	3587.3	3598.9	3610.6	3616.4	3624.1	3616.4	3600.9
7.5°	3486.5	3482.6	3511.7	3546.6	3598.9	3643.5	3692.0	3719.1	3721.0	3715.2
10°	3480.7	3471.0	3500.1	3542.7	3610.6	3690.0	3775.3	3833.4	3841.2	3866.4
12.5°	3571.8	3562.1	3602.8	3649.3	3719.1	3802.4	3907.1	3988.5	4000.1	4035.0
15°	3724.9	3711.3	3757.8	3817.9	3907.1	4002.0	4112.5	4186.2	4195.8	4238.5
17.5°	3903.2	3889.6	3943.9	4007.9	4104.8	4234.6	4362.5	4443.9	4455.5	4482.7
20°	4131.9	4114.4	4157.1	4215.2	4317.9	4473.0	4626.1	4742.4	4740.4	4740.4
22.5°	4397.4	4370.3	4407.1	4453.6	4550.5	4738.5	4942.0	5079.6	5079.6	5025.3
25°	4682.3	4655.2	4695.9	4738.5	4823.8	5037.0	5275.3	5445.9	5453.6	5360.6
27.5°	5038.9	5004.0	5035.0	5085.4	5135.8	5352.9	5635.8	5833.5	5837.4	5693.9
30°	5725.0	5626.1	5529.2	5474.9	5498.2	5713.3	6015.7	6234.7	6254.0	6056.4
32.5°	6980.8	6961.4	6620.3	6174.6	5942.0	6100.9	6440.1	6703.7	6715.3	6461.4
35°	8932.4	8909.1	8360.7	7511.8	6754.0	6620.3	6955.6	7267.6	7259.9	6973.0
37.5°	11261.9	11240.6	10517.7	9382.0	8155.2	7405.2	7620.4	7947.9	7996.3	7620.4
40°	13252.3	13172.8	12715.4	11620.5	10015.8	8707.6	8566.1	8783.2	8833.6	8387.8
42.5°	14760.1	14692.2	14459.7	13775.5	12267.8	10634.0	9680.5	9763.8	9820.0	9285.1
45°	15541.1	15525.6	15618.6	15554.7	14562.4	12998.4	11273.5	10926.6	10948.0	10279.3
47.5°	15651.6	15643.8	16068.2	16669.0	16535.3	15665.1	13318.2	12376.3	12300.7	11401.5
50°	15000.4	14984.9	15798.9	16924.9	17853.2	17905.5	15639.9	14010.1	13843.4	12562.3
52.5°	12920.9	12917.0	14254.2	16128.3	18316.4	19866.8	17934.6	15804.7	15525.6	13791.1
55°	9942.1	10013.8	11546.8	13762.0	17471.4	20810.6	19994.7	17797.0	17368.7	15027.5
57.5°	7042.8	7147.5	8663.0	10635.9	14851.2	20252.5	21388.1	19793.1	19331.9	16260.1
60°	3783.0	3876.1	5393.5	7748.3	11048.7	18171.0	22122.7	21525.7	21089.7	17430.7
62.5°	2253.9	2284.9	2912.9	5002.1	7473.1	13882.1	21810.6	22845.5	22487.0	18413.3
65°	1618.3	1624.1	1940.0	3054.3	4536.9	8434.3	19622.6	23477.3	23366.9	19153.6
67.5°	1362.4	1358.6	1490.3	2029.1	3091.2	4224.9	15039.1	22583.9	23052.9	19622.6
70°	1168.6	1174.4	1329.5	1486.5	2323.7	2391.5	7476.9	19663.3	20663.3	19746.6
72.5°	870.2	889.6	1033.0	1354.7	1753.9	1645.4	2581.5	14579.8	16388.0	18605.1
75°	614.4	624.0	726.8	1139.6	1308.2	1197.7	1317.9	7537.0	9854.9	14263.9
77.5°	472.9	490.3	550.4	796.5	1288.8	841.1	806.2	2608.6	4007.9	8616.5
80°	255.8	286.8	397.3	575.6	905.1	595.0	399.2	1038.8	1358.6	4029.2
82.5°	131.8	147.3	277.1	414.7	515.5	519.4	197.7	432.2	560.1	1244.2
85°	52.3	64.0	186.1	228.7	265.5	255.8	89.1	174.4	201.6	345.0
87.5°	11.6	19.4	67.8	52.3	50.4	54.3	21.3	40.7	38.8	40.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955807
 CATALOG NUMBER: GALN-SB8C-927-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3476.8	0°	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8	3476.8
3500.1	2.5°	3498.2	3490.4	3469.1	3445.8	3418.7	3403.2	3393.5	3391.6	3378.0	3368.3
3577.6	5°	3556.3	3548.5	3507.8	3459.4	3407.1	3366.4	3327.6	3292.7	3242.3	3232.6
3690.0	7.5°	3672.6	3651.3	3585.4	3519.5	3420.6	3302.4	3159.0	2994.3	2847.0	2802.4
3839.2	10°	3816.0	3786.9	3703.6	3587.3	3368.3	3046.6	2699.7	2378.0	2122.1	2050.4
4015.6	12.5°	3978.8	3953.6	3843.1	3628.0	3149.3	2566.0	2034.9	1635.7	1387.6	1325.6
4203.6	15°	4172.6	4135.8	3982.7	3566.0	2757.8	1949.7	1397.3	1160.9	1071.7	1060.1
4418.7	17.5°	4378.0	4317.9	4106.7	3343.1	2230.7	1385.7	1079.5	1011.7	972.9	961.3
4635.8	20°	4566.0	4488.5	4180.3	3005.9	1666.7	1079.5	967.1	922.5	887.6	874.1
4852.8	22.5°	4754.0	4643.5	4180.3	2546.6	1250.0	957.4	887.6	846.9	806.2	788.8
5085.4	25°	4949.7	4802.4	4106.7	2034.9	1005.8	877.9	812.0	767.5	732.6	711.3
5306.3	27.5°	5139.7	4936.2	3938.1	1550.4	895.4	808.2	742.3	699.6	666.7	651.2
5546.7	30°	5319.9	5068.0	3701.6	1176.4	823.7	740.3	678.3	641.5	608.5	593.0
5858.7	32.5°	5564.1	5234.6	3449.7	965.1	761.6	676.4	620.2	585.3	556.2	544.6
6263.7	35°	5903.3	5480.8	3232.6	947.7	709.3	624.0	567.8	534.9	505.8	496.1
6787.0	37.5°	6383.9	5878.1	3118.3	1064.0	666.7	577.5	525.2	490.3	463.2	455.4
7451.7	40°	6976.9	6416.8	3180.3	1180.3	637.6	536.8	486.4	451.6	428.3	418.6
8215.3	42.5°	7680.4	7081.6	3523.3	1269.4	618.2	502.0	449.6	410.9	395.4	391.5
9081.6	45°	8488.6	7812.2	4048.6	1364.4	587.2	469.0	412.8	383.7	372.1	370.2
10023.5	47.5°	9407.2	8614.6	4657.1	1482.6	556.2	438.0	383.7	364.4	354.7	350.8
11006.1	50°	10318.1	9422.7	5283.1	1548.5	531.0	408.9	360.5	345.0	337.2	335.3
12044.9	52.5°	11271.6	10254.1	5788.9	1486.5	509.7	385.7	341.1	329.5	321.7	319.8
13002.3	55°	12180.5	10926.6	5876.1	1261.7	467.1	362.4	319.8	314.0	304.3	304.3
13973.2	57.5°	12963.5	11263.9	5259.8	926.4	424.4	327.5	298.5	292.6	284.9	283.0
14849.2	60°	13682.5	11167.0	4060.2	624.0	377.9	292.6	271.3	267.4	259.7	250.0
15610.9	62.5°	14087.6	10740.6	2777.2	407.0	331.4	255.8	240.3	238.4	220.9	201.6
16174.8	65°	14240.7	9864.6	1732.6	296.5	277.1	219.0	207.4	203.5	178.3	157.0
16494.6	67.5°	14107.0	8422.7	874.1	234.5	219.0	182.2	170.5	170.5	153.1	133.7
16475.2	70°	13572.1	6314.1	368.2	188.0	168.6	139.5	139.5	147.3	129.8	108.5
15620.6	72.5°	12411.2	4248.2	195.7	143.4	126.0	98.8	114.3	120.2	102.7	81.4
12785.2	75°	9866.5	2591.2	135.7	106.6	79.5	69.8	87.2	91.1	69.8	54.3
8765.7	77.5°	6748.2	1488.4	91.1	67.8	50.4	40.7	60.1	56.2	36.8	25.2
3379.9	80°	2963.3	620.2	52.3	31.0	19.4	15.5	21.3	15.5	11.6	7.8
463.2	82.5°	346.9	145.4	19.4	11.6	7.8	3.9	1.9	0.0	0.0	0.0
141.5	85°	71.7	17.4	9.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
25.2	87.5°	13.6	3.9	1.9	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>
3476.8
3378.0
3228.8
2781.1
2023.3
1308.2
1048.5
955.5
866.3
779.1
703.5
651.2
595.0
544.6
496.1
453.5
416.7
391.5
368.2
350.8
335.3
319.8
302.3
281.0
248.1
197.7
155.0
131.8
106.6
81.4
52.3
27.1
7.8
0.0
0.0
0.0
0.0

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