

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: P944106

Luminaire Tested: **GALN-SB8D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944106
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-SB8D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA 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: 39282 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

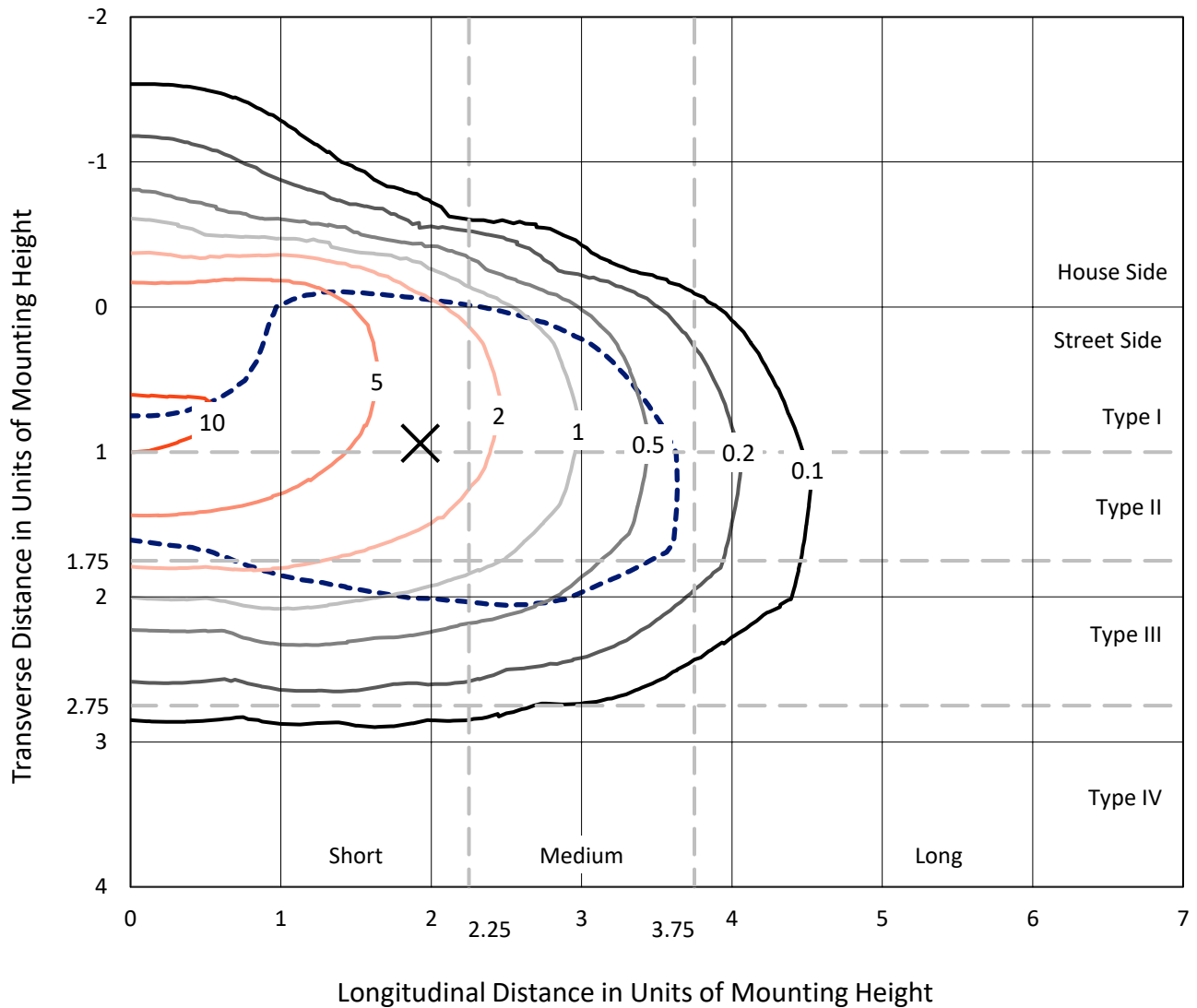
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

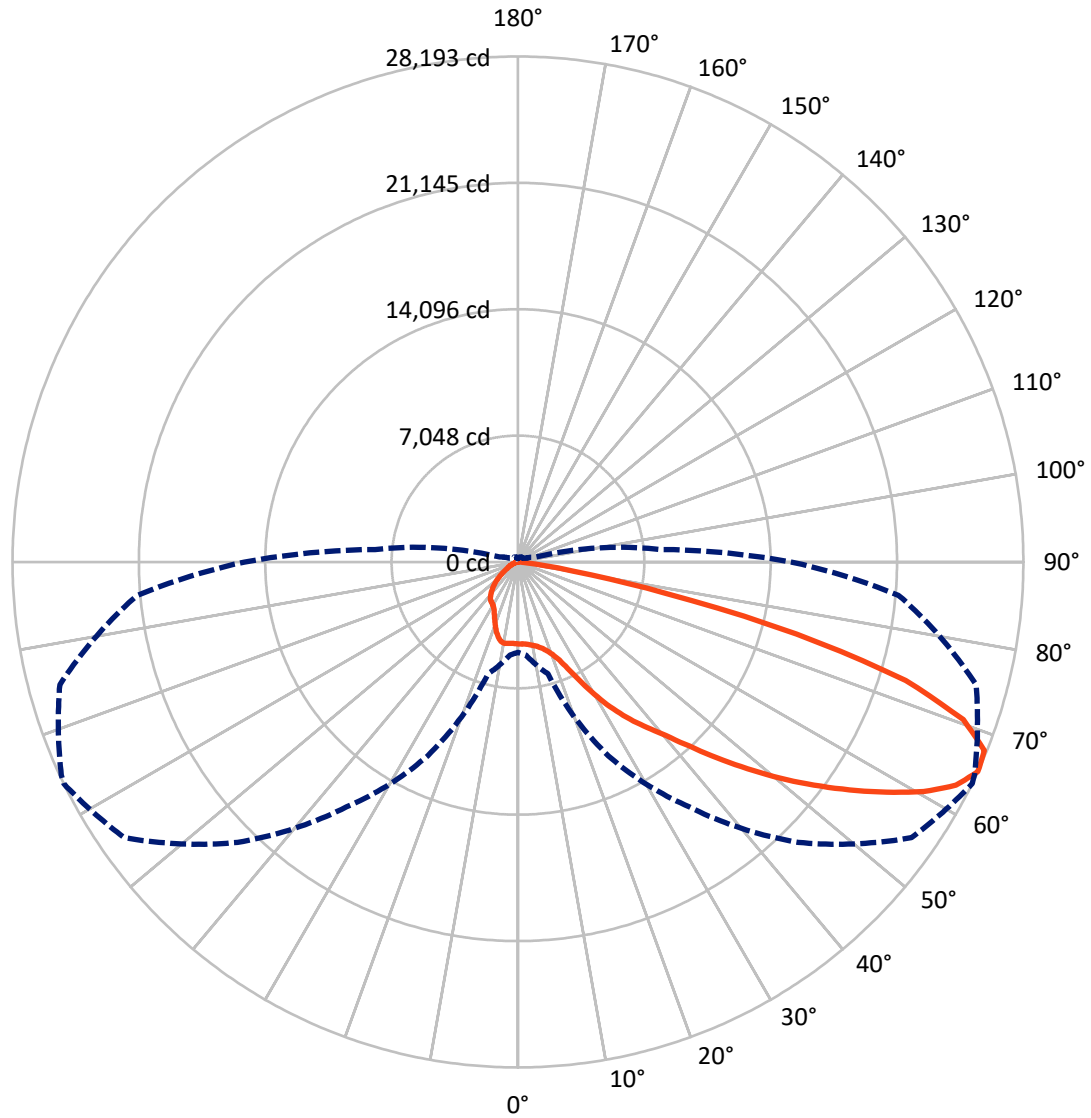
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	5253.2	0.0	5253.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34028.8	0.0	34028.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	39282.0	0.0	39282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	1.1
10°-20°	1143.3	2.9
20°-30°	2166.5	5.5
30°-40°	4383.9	11.2
40°-50°	7468.0	19.0
50°-60°	10155.9	25.9
60°-70°	9536.9	24.3
70°-80°	3820.9	9.7
80°-90°	185.1	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°	39282.0	100.0
0°-180°	39282.0	100.0

Coefficient of Utilization



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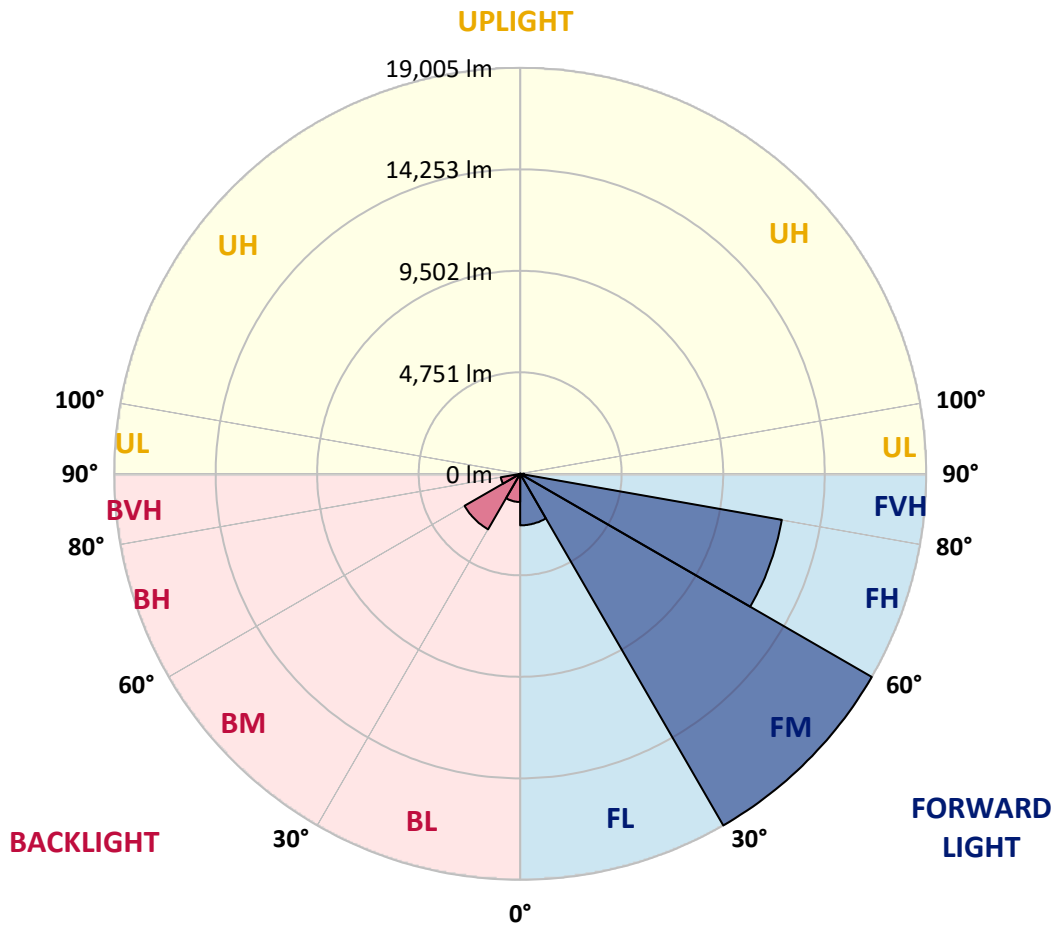
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.4	6.1			
FM (30°-60°)	19004.6	48.4			
FH (60°-80°)	12435.8	31.7			G5
FVH (80°-90°)	176.1	0.4			G2/225
BL (0°-30°)	1318.9	3.4	B3/2500		
BM (30°-60°)	3003.2	7.6	B3/5000		
BH (60°-80°)	922.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.0	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
2.5°	4553.1	4584.7	4576.8	4568.9	4566.3	4571.5	4574.2	4571.5	4571.5	4571.5
5°	4466.2	4492.5	4492.5	4511.0	4537.3	4568.9	4592.6	4597.9	4603.1	4611.0
7.5°	4300.3	4321.4	4337.2	4397.7	4463.6	4547.8	4618.9	4655.8	4661.1	4690.0
10°	4187.1	4213.4	4239.7	4302.9	4397.7	4524.1	4645.3	4734.8	4748.0	4816.4
12.5°	4181.8	4208.1	4242.4	4310.8	4421.4	4555.7	4703.2	4832.2	4855.9	4956.0
15°	4237.1	4268.7	4300.3	4384.6	4503.1	4666.3	4824.3	4985.0	5008.7	5150.9
17.5°	4350.3	4392.5	4416.2	4500.4	4626.8	4808.5	5016.6	5200.9	5222.0	5387.9
20°	4574.2	4624.2	4632.1	4700.6	4824.3	5019.2	5266.7	5495.9	5522.2	5711.8
22.5°	5037.6	5108.7	5045.5	5079.8	5190.4	5385.3	5653.9	5943.5	5980.4	6196.3
25°	5854.0	5954.1	5790.8	5732.9	5780.3	5983.0	6320.1	6686.1	6728.3	6902.1
27.5°	7457.7	7328.7	7081.1	6838.9	6696.7	6812.5	7191.7	7644.7	7697.4	7865.9
30°	9219.4	9106.2	8771.8	8234.6	7897.5	7879.1	8229.3	8734.9	8795.5	8956.1
32.5°	10983.8	10875.8	10512.4	9851.5	9266.8	8977.2	9219.4	9780.4	9812.0	9914.7
35°	12719.2	12608.6	12245.2	11568.4	10849.5	10191.2	10143.8	10775.8	10786.3	10894.3
37.5°	14465.1	14373.0	13985.9	13322.2	12613.9	11705.3	11265.6	11718.5	11731.7	11837.0
40°	15710.7	15750.2	15484.2	14970.7	14362.4	13369.6	12524.3	12721.8	12642.8	12819.3
42.5°	16779.9	16858.9	16627.1	16369.1	16016.2	15141.9	14083.3	14049.1	13922.7	14017.5
45°	17704.2	17770.0	17562.0	17501.4	17493.5	16879.9	15787.1	15581.7	15405.2	15386.8
47.5°	18043.9	18170.3	18259.8	18462.6	18857.6	18599.5	17548.8	17230.2	17032.7	16887.8
50°	18172.9	18307.2	18612.7	19202.6	20137.4	20248.0	19302.6	18944.5	18702.2	18438.9
52.5°	17999.1	18238.8	18649.6	19642.3	20998.5	21570.0	20985.4	20672.0	20395.5	19966.2
55°	16974.7	17214.4	18054.4	19637.1	21427.8	22496.9	22575.9	22436.3	22125.6	21448.8
57.5°	14815.4	15170.9	16500.7	18968.2	21419.9	23294.8	24134.9	24234.9	23887.3	22918.3
60°	11823.9	12305.8	13927.9	17485.6	20758.9	23726.7	25501.6	26001.9	25633.3	24366.6
62.5°	8250.4	8808.6	10343.9	15163.0	19247.3	23416.0	26499.6	27424.0	27144.8	25662.2
65°	5032.4	5211.4	6449.1	11931.8	16677.2	22115.1	26807.8	28192.9	28100.7	26454.9
67.5°	3352.3	3502.4	3857.9	8181.9	12945.7	19515.9	26070.4	28058.6	28084.9	26325.8
70°	2019.8	2148.8	2380.6	4758.5	8389.9	15447.4	23787.3	26346.9	26499.6	24601.0
72.5°	832.1	919.0	1129.7	2156.7	4345.1	9804.1	18941.9	22620.7	22976.2	20685.2
75°	471.4	516.1	663.6	1082.3	1885.5	4568.9	11473.6	16058.3	16582.4	14257.1
77.5°	313.4	334.4	429.2	700.5	1061.2	1559.0	4903.3	8366.2	9366.9	7786.9
80°	210.7	229.1	294.9	468.7	689.9	668.9	1561.6	3099.5	3813.1	2675.5
82.5°	142.2	144.8	210.7	308.1	437.1	323.9	460.8	963.8	1211.4	774.2
85°	81.6	79.0	155.4	179.1	194.9	134.3	139.6	289.7	379.2	326.5
87.5°	10.5	15.8	60.6	47.4	26.3	29.0	29.0	50.0	73.7	79.0
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°
4568.9	0°	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9	4568.9
4574.2	2.5°	4574.2	4571.5	4563.6	4555.7	4537.3	4526.8	4532.0	4526.8	4524.1	4526.8
4608.4	5°	4608.4	4600.5	4579.4	4553.1	4516.2	4471.5	4442.5	4400.4	4360.9	4337.2
4700.6	7.5°	4700.6	4692.7	4663.7	4590.0	4471.5	4284.5	4113.3	3963.2	3850.0	3784.2
4848.0	10°	4848.0	4834.9	4790.1	4626.8	4316.1	3907.9	3568.2	3286.5	3102.1	3015.2
5021.8	12.5°	5021.8	5006.0	4927.0	4592.6	4021.2	3383.9	2915.1	2601.8	2430.6	2354.2
5222.0	15°	5227.2	5206.2	5050.8	4429.3	3591.9	2804.5	2375.3	2140.9	2030.3	1961.9
5477.4	17.5°	5482.7	5445.8	5143.0	4184.4	3125.8	2362.1	2043.5	1867.1	1769.6	1703.8
5811.9	20°	5814.5	5753.9	5216.7	3892.1	2696.6	2083.0	1819.7	1672.2	1598.5	1540.5
6285.9	22.5°	6278.0	6191.1	5306.2	3576.1	2393.7	1890.8	1653.8	1545.8	1485.2	1419.4
6946.8	25°	6852.0	6749.3	5416.9	3283.8	2185.7	1724.9	1532.6	1443.1	1372.0	1295.6
7813.2	27.5°	7655.2	7470.9	5548.5	3044.2	2006.6	1582.7	1422.0	1322.0	1240.3	1177.1
8795.5	30°	8550.6	8247.7	5664.4	2899.3	1843.4	1451.0	1277.2	1177.1	1100.8	1056.0
9677.7	32.5°	9398.5	8987.7	5740.8	2836.1	1695.9	1300.9	1119.2	1011.2	953.3	940.1
10541.4	35°	10199.1	9656.6	5732.9	2775.6	1564.2	1150.8	963.8	853.2	808.4	816.3
11471.0	37.5°	11120.7	10370.2	5677.6	2680.8	1456.3	1013.8	829.5	732.1	692.6	695.2
12600.7	40°	12192.5	11194.5	5643.3	2501.7	1337.8	887.4	718.9	639.9	610.9	600.4
13791.0	42.5°	13335.4	11992.4	5648.6	2298.9	1190.3	774.2	642.5	576.7	550.4	542.5
15115.6	45°	14483.6	12753.4	5656.5	2088.3	1034.9	687.3	587.2	531.9	516.1	505.6
16458.6	47.5°	15563.2	13401.2	5509.0	1861.8	882.2	621.5	542.5	505.6	492.4	479.3
17806.9	50°	16569.2	13833.1	5153.5	1598.5	761.0	568.8	508.2	481.9	468.7	455.6
19028.8	52.5°	17351.3	13901.6	4566.3	1327.2	676.8	529.3	487.2	463.5	447.7	434.5
20016.3	55°	17698.9	13472.3	3731.5	1074.4	610.9	495.1	466.1	442.4	424.0	410.8
20793.1	57.5°	17609.4	12569.1	2909.9	863.7	547.7	460.8	439.8	424.0	402.9	381.8
21422.5	60°	17169.6	11360.4	2193.6	718.9	489.8	424.0	410.8	397.6	368.7	337.1
21664.8	62.5°	16408.6	9840.9	1564.2	595.1	426.6	381.8	376.6	366.0	323.9	266.0
21306.6	65°	15244.6	7994.9	1053.3	495.1	366.0	334.4	337.1	318.6	263.3	197.5
19995.2	67.5°	13543.4	5846.1	674.1	405.5	305.5	279.1	281.8	271.2	223.8	168.5
17509.3	70°	11376.2	3871.1	439.8	308.1	244.9	215.9	231.7	234.4	189.6	136.9
13438.1	72.5°	8339.9	2285.8	308.1	229.1	179.1	150.1	189.6	194.9	152.7	102.7
8084.5	75°	4753.2	1085.0	231.7	165.9	110.6	105.3	147.5	147.5	105.3	68.5
3499.8	77.5°	1996.1	452.9	163.3	108.0	63.2	60.6	100.1	92.2	52.7	31.6
853.2	80°	576.7	202.8	86.9	52.7	26.3	23.7	39.5	29.0	13.2	5.3
323.9	82.5°	226.5	89.5	34.2	21.1	10.5	10.5	5.3	0.0	0.0	0.0
184.3	85°	134.3	36.9	15.8	7.9	2.6	0.0	0.0	0.0	0.0	0.0
39.5	87.5°	34.2	7.9	5.3	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>
4568.9
4537.3
4342.4
3786.8
3007.3
2346.3
1964.5
1698.5
1530.0
1408.9
1287.7
1164.0
1048.1
948.0
816.3
705.7
597.8
539.8
505.6
479.3
455.6
431.9
408.2
379.2
331.8
260.7
192.2
160.6
131.7
97.4
63.2
31.6
5.3
0.0
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0.0

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