

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: P942036

Luminaire Tested: **GALN-SB5D-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942036
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-SB5D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 37393 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

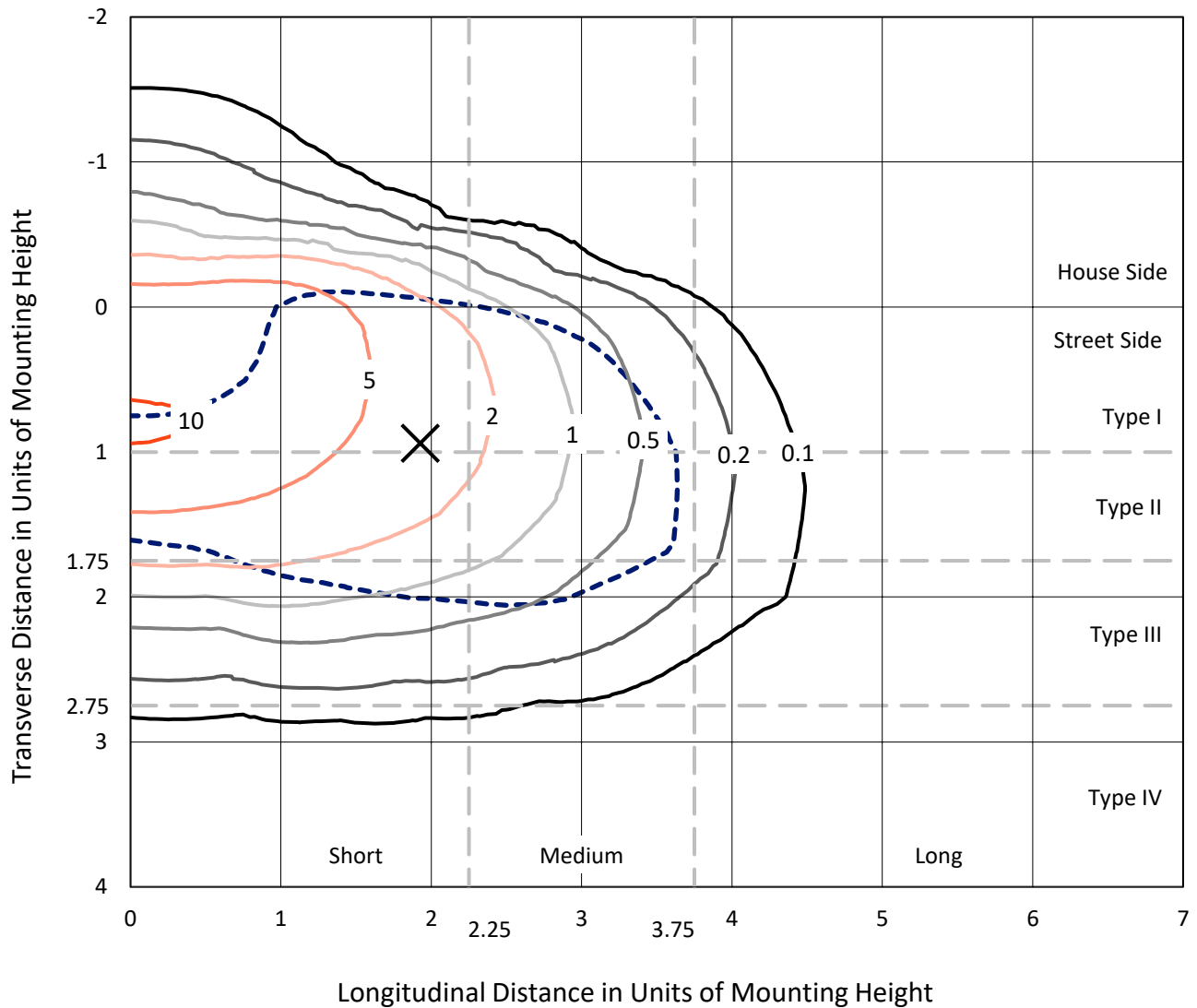
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

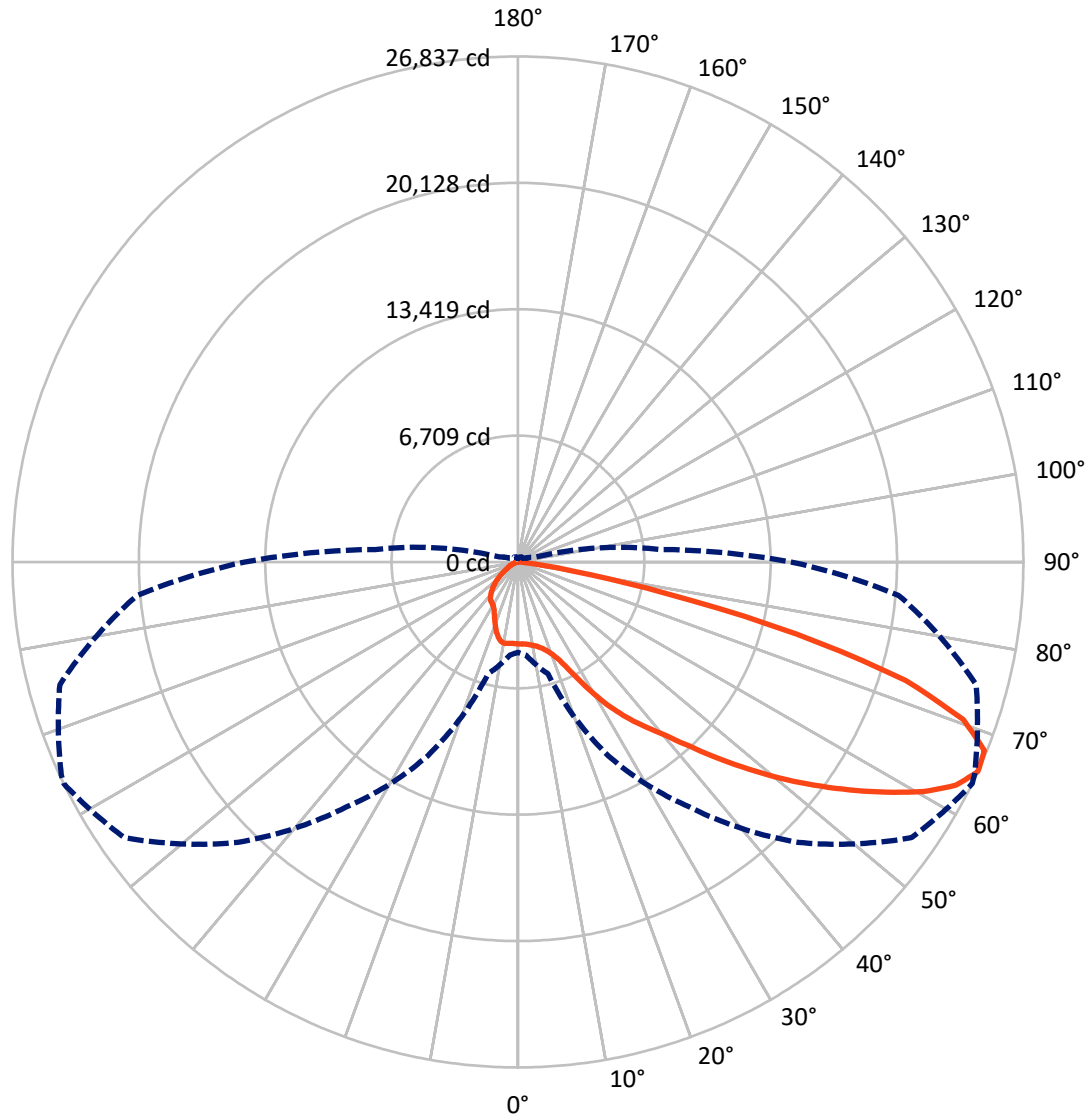
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	5000.6	0.0	5000.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32392.4	0.0	32392.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	37393.0	0.0	37393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	1.1
10°-20°	1088.3	2.9
20°-30°	2062.3	5.5
30°-40°	4173.1	11.2
40°-50°	7108.9	19.0
50°-60°	9667.5	25.9
60°-70°	9078.3	24.3
70°-80°	3637.2	9.7
80°-90°	176.2	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°	37393.0	100.0
0°-180°	37393.0	100.0

Coefficient of Utilization



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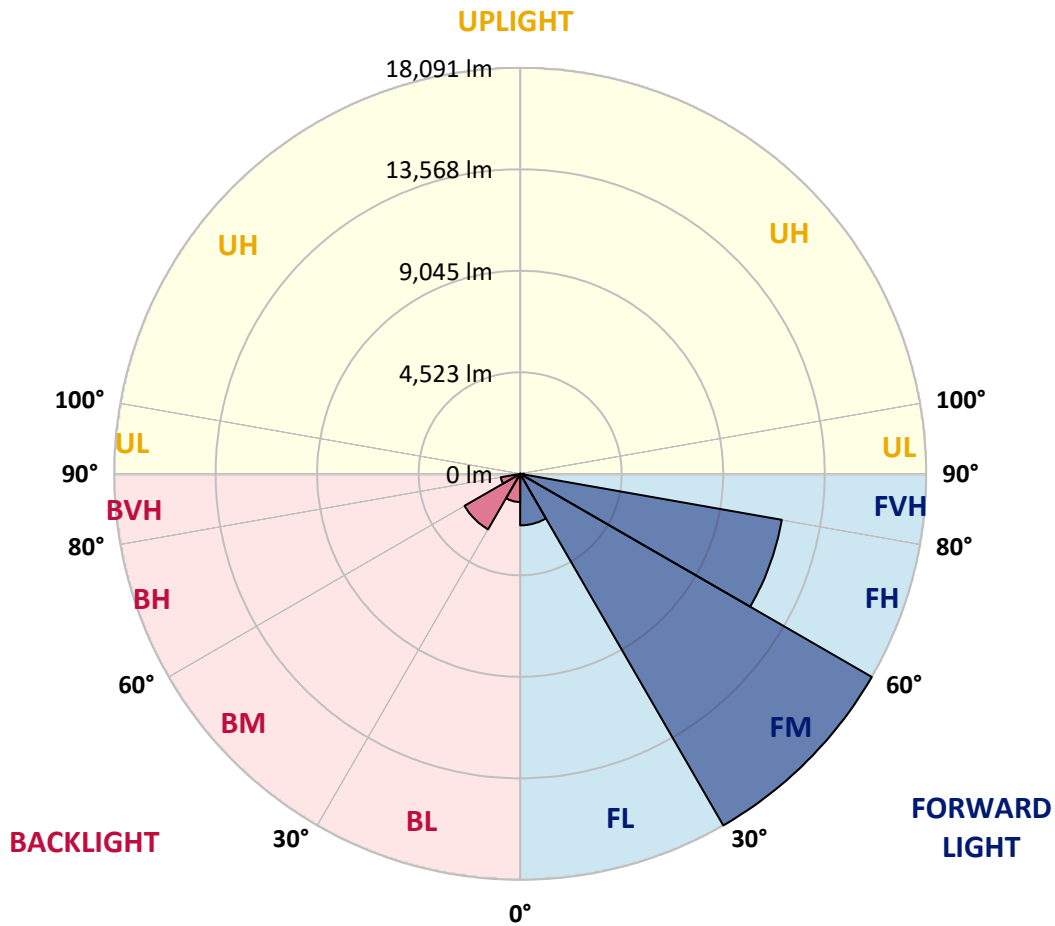
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2296.4	6.1			
FM (30°-60°)	18090.7	48.4			
FH (60°-80°)	11837.8	31.7			G4/12000
FVH (80°-90°)	167.6	0.4			G2/225
BL (0°-30°)	1255.5	3.4	B3/2500		
BM (30°-60°)	2858.8	7.6	B3/5000		
BH (60°-80°)	877.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2
2.5°	4334.2	4364.2	4356.7	4349.2	4346.7	4351.7	4354.2	4351.7	4351.7	4351.7
5°	4251.4	4276.5	4276.5	4294.0	4319.1	4349.2	4371.8	4376.8	4381.8	4389.3
7.5°	4093.5	4113.6	4128.6	4186.3	4248.9	4329.1	4396.8	4431.9	4436.9	4464.5
10°	3985.7	4010.8	4035.9	4096.0	4186.3	4306.6	4421.9	4507.1	4519.7	4584.8
12.5°	3980.7	4005.8	4038.4	4103.5	4208.8	4336.7	4477.0	4599.9	4622.4	4717.7
15°	4033.3	4063.4	4093.5	4173.7	4286.5	4441.9	4592.3	4745.3	4767.8	4903.2
17.5°	4141.1	4181.2	4203.8	4284.0	4404.3	4577.3	4775.3	4950.8	4970.9	5128.8
20°	4354.2	4401.8	4409.4	4474.5	4592.3	4777.8	5013.5	5231.6	5256.6	5437.1
22.5°	4795.4	4863.1	4802.9	4835.5	4940.8	5126.3	5382.0	5657.7	5692.8	5898.4
25°	5572.5	5667.7	5512.3	5457.2	5502.3	5695.3	6016.2	6364.6	6404.7	6570.2
27.5°	7099.1	6976.3	6740.6	6510.0	6374.6	6484.9	6845.9	7277.1	7327.2	7487.6
30°	8776.1	8668.3	8350.0	7838.6	7517.7	7500.2	7833.6	8314.9	8372.5	8525.4
32.5°	10455.6	10352.8	10006.9	9377.7	8821.2	8545.5	8776.1	9310.0	9340.1	9437.9
35°	12107.6	12002.3	11656.3	11012.1	10327.8	9701.1	9656.0	10257.6	10267.6	10370.4
37.5°	13769.5	13681.8	13313.3	12681.6	12007.3	11142.5	10723.8	11155.0	11167.5	11267.8
40°	14955.2	14992.8	14739.6	14250.8	13671.8	12726.7	11922.1	12110.1	12034.9	12202.8
42.5°	15972.9	16048.2	15827.6	15581.9	15246.0	14413.8	13406.0	13373.5	13253.1	13343.4
45°	16852.8	16915.5	16717.5	16659.8	16652.3	16068.2	15027.9	14832.4	14664.4	14646.9
47.5°	17176.2	17296.5	17381.7	17574.8	17950.8	17705.1	16704.9	16401.6	16213.6	16075.7
50°	17299.0	17426.9	17717.6	18279.1	19169.0	19274.3	18374.4	18033.5	17802.9	17552.2
52.5°	17133.6	17361.7	17752.7	18697.8	19988.7	20532.7	19976.2	19677.9	19414.7	19006.1
55°	16158.4	16386.6	17186.2	18692.8	20397.3	21415.1	21490.3	21357.4	21061.6	20417.4
57.5°	14102.9	14441.3	15707.2	18056.0	20389.8	22174.6	22974.3	23069.5	22738.6	21816.2
60°	11255.3	11714.0	13258.1	16644.8	19760.6	22585.7	24275.3	24751.6	24400.6	23194.9
62.5°	7853.6	8385.0	9846.5	14433.8	18321.8	22289.9	25225.3	26105.2	25839.5	24428.2
65°	4790.4	4960.8	6139.0	11358.0	15875.2	21051.6	25518.6	26837.2	26749.4	25182.7
67.5°	3191.1	3334.0	3672.4	7788.4	12323.1	18577.5	24816.7	26709.3	26734.4	25059.9
70°	1922.7	2045.5	2266.1	4529.7	7986.5	14704.5	22643.4	25079.9	25225.3	23418.0
72.5°	792.1	874.9	1075.4	2053.0	4136.1	9332.6	18031.0	21532.9	21871.3	19690.4
75°	448.7	491.3	631.7	1030.3	1794.8	4349.2	10921.9	15286.1	15784.9	13571.5
77.5°	298.3	318.4	408.6	666.8	1010.2	1484.0	4667.6	7963.9	8916.5	7412.4
80°	200.5	218.1	280.8	446.2	656.8	636.7	1486.5	2950.4	3629.8	2546.8
82.5°	135.4	137.9	200.5	293.3	416.1	308.3	438.7	917.5	1153.1	737.0
85°	77.7	75.2	147.9	170.5	185.5	127.8	132.9	275.7	361.0	310.8
87.5°	10.0	15.0	57.7	45.1	25.1	27.6	27.6	47.6	70.2	75.2
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°
4349.2	0°	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2	4349.2
4354.2	2.5°	4354.2	4351.7	4344.2	4336.7	4319.1	4309.1	4314.1	4309.1	4306.6	4309.1
4386.8	5°	4386.8	4379.3	4359.2	4334.2	4299.1	4256.4	4228.9	4188.8	4151.2	4128.6
4474.5	7.5°	4474.5	4467.0	4439.4	4369.2	4256.4	4078.5	3915.5	3772.6	3664.9	3602.2
4614.9	10°	4614.9	4602.4	4559.8	4404.3	4108.5	3720.0	3396.6	3128.4	2952.9	2870.2
4780.4	12.5°	4780.4	4765.3	4690.1	4371.8	3827.8	3221.2	2775.0	2476.7	2313.7	2241.0
4970.9	15°	4975.9	4955.8	4807.9	4216.3	3419.2	2669.7	2261.1	2038.0	1932.7	1867.5
5214.0	17.5°	5219.0	5183.9	4895.7	3983.2	2975.5	2248.5	1945.2	1777.3	1684.5	1621.9
5532.4	20°	5534.9	5477.2	4965.9	3705.0	2566.9	1982.8	1732.2	1591.8	1521.6	1466.4
5983.6	22.5°	5976.1	5893.3	5051.1	3404.2	2278.6	1799.8	1574.2	1471.5	1413.8	1351.1
6612.8	25°	6522.5	6424.8	5156.4	3125.9	2080.6	1641.9	1458.9	1373.7	1306.0	1233.3
7437.5	27.5°	7287.1	7111.6	5281.7	2897.8	1910.1	1506.6	1353.6	1258.4	1180.7	1120.5
8372.5	30°	8139.4	7851.1	5392.0	2759.9	1754.7	1381.2	1215.8	1120.5	1047.8	1005.2
9212.3	32.5°	8946.6	8555.5	5464.7	2699.8	1614.3	1238.3	1065.4	962.6	907.4	894.9
10034.5	35°	9708.6	9192.2	5457.2	2642.1	1489.0	1095.4	917.5	812.2	769.6	777.1
10919.4	37.5°	10586.0	9871.5	5404.5	2551.9	1386.2	965.1	789.6	696.9	659.3	661.8
11994.8	40°	11606.2	10656.2	5371.9	2381.4	1273.4	844.8	684.3	609.1	581.6	571.5
13127.8	42.5°	12694.1	11415.7	5377.0	2188.4	1133.0	737.0	611.6	549.0	523.9	516.4
14388.7	45°	13787.1	12140.1	5384.5	1987.8	985.1	654.3	559.0	506.4	491.3	481.3
15667.1	47.5°	14814.8	12756.8	5244.1	1772.3	839.8	591.6	516.4	481.3	468.8	456.2
16950.6	50°	15772.4	13167.9	4905.7	1521.6	724.4	541.5	483.8	458.7	446.2	433.7
18113.7	52.5°	16516.9	13233.1	4346.7	1263.4	644.2	503.9	463.7	441.2	426.1	413.6
19053.7	55°	16847.8	12824.5	3552.1	1022.7	581.6	471.3	443.7	421.1	403.6	391.1
19793.2	57.5°	16762.6	11964.7	2769.9	822.2	521.4	438.7	418.6	403.6	383.5	363.5
20392.3	60°	16343.9	10814.1	2088.1	684.3	466.3	403.6	391.1	378.5	350.9	320.9
20623.0	62.5°	15619.5	9367.7	1489.0	566.5	406.1	363.5	358.5	348.4	308.3	253.2
20282.0	65°	14511.5	7610.5	1002.7	471.3	348.4	318.4	320.9	303.3	250.7	188.0
19033.7	67.5°	12892.2	5565.0	641.7	386.0	290.8	265.7	268.2	258.2	213.1	160.4
16667.3	70°	10829.1	3684.9	418.6	293.3	233.1	205.6	220.6	223.1	180.5	130.4
12791.9	72.5°	7938.8	2175.9	293.3	218.1	170.5	142.9	180.5	185.5	145.4	97.8
7695.7	75°	4524.7	1032.8	220.6	157.9	105.3	100.3	140.4	140.4	100.3	65.2
3331.5	77.5°	1900.1	431.2	155.4	102.8	60.2	57.7	95.3	87.7	50.1	30.1
812.2	80°	549.0	193.0	82.7	50.1	25.1	22.6	37.6	27.6	12.5	5.0
308.3	82.5°	215.6	85.2	32.6	20.1	10.0	10.0	5.0	0.0	0.0	0.0
175.5	85°	127.8	35.1	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
37.6	87.5°	32.6	7.5	5.0	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>
4349.2
4319.1
4133.6
3604.7
2862.7
2233.5
1870.0
1616.8
1456.4
1341.1
1225.8
1108.0
997.7
902.4
777.1
671.8
569.0
513.9
481.3
456.2
433.7
411.1
388.5
361.0
315.8
248.2
183.0
152.9
125.3
92.7
60.2
30.1
5.0
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