

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: P944704

Luminaire Tested: **GALN-SB9D-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71606 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

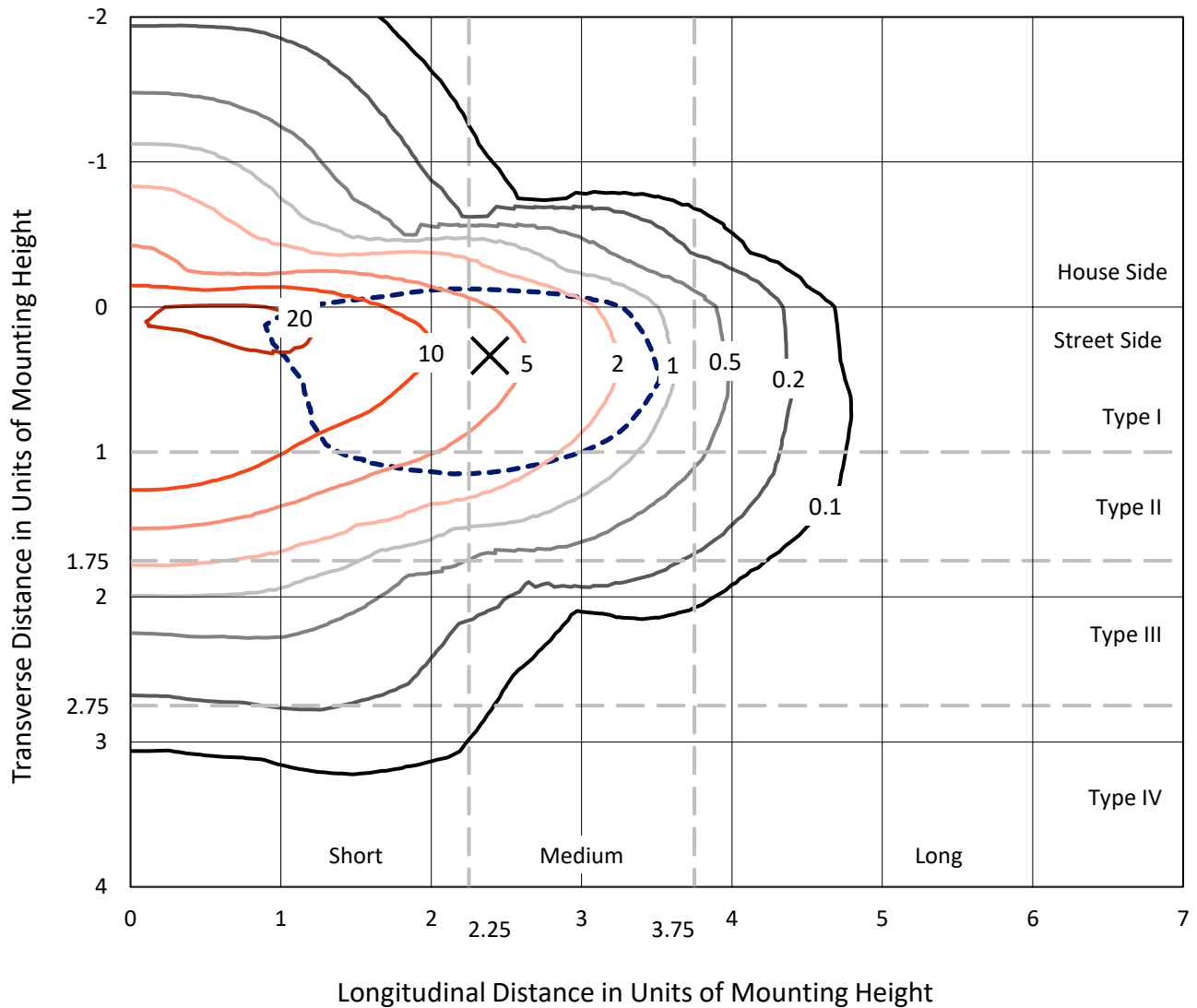
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

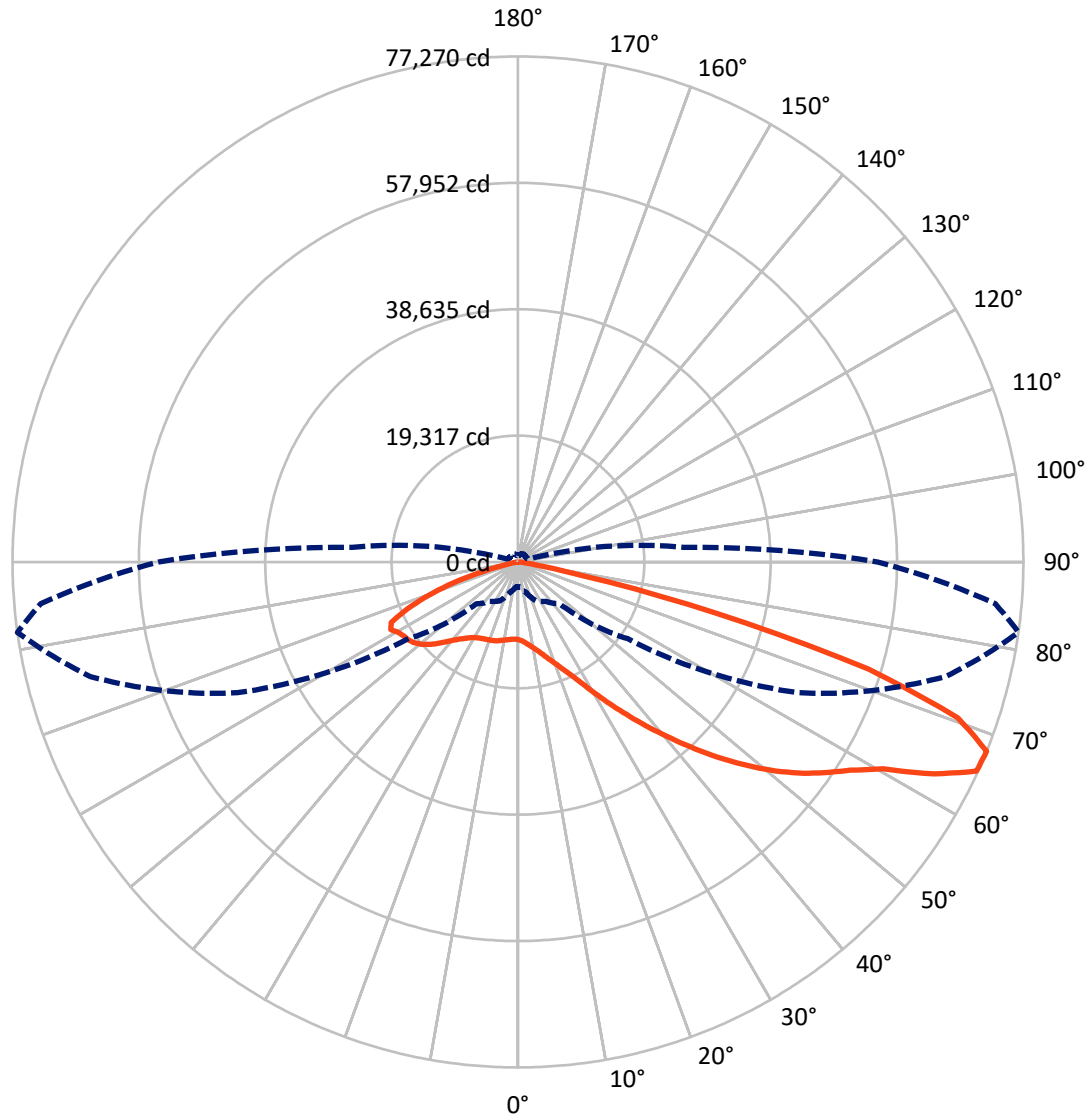
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12970.8	0.0	12970.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	58635.2	0.0	58635.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	71606.0	0.0	71606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.9	1.5
10°-20°	2746.4	3.8
20°-30°	4398.9	6.1
30°-40°	7778.5	10.9
40°-50°	13628.7	19.0
50°-60°	18176.9	25.4
60°-70°	16921.8	23.6
70°-80°	6494.6	9.1
80°-90°	403.4	0.6
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°	71606.0	100.0
0°-180°	71606.0	100.0

Coefficient of Utilization



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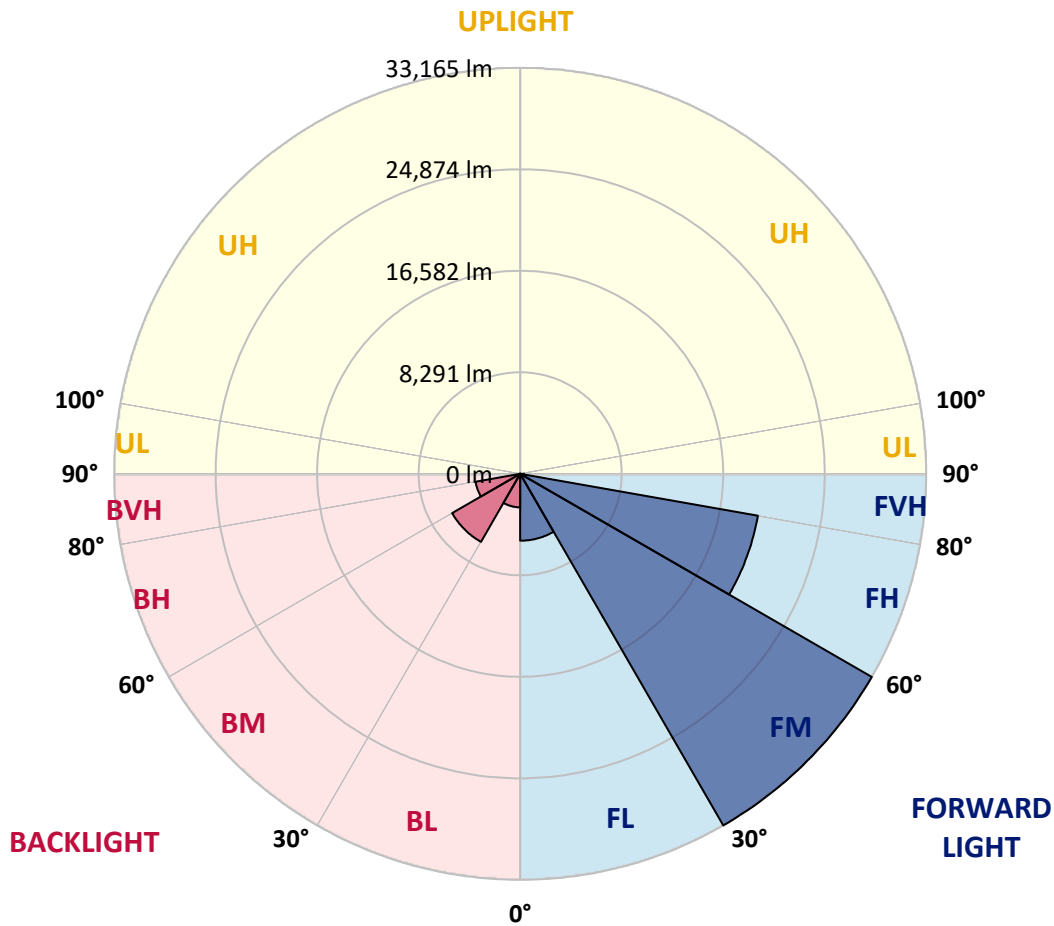
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5462.7	7.6			
FM (30°-60°)	33165.0	46.3			
FH (60°-80°)	19714.2	27.5			G5
FVH (80°-90°)	293.3	0.4			G3/500
BL (0°-30°)	2739.4	3.8	B4/5000		
BM (30°-60°)	6419.2	9.0	B4/8500		
BH (60°-80°)	3702.1	5.2	B4/5000		G4/5000
BVH (80°-90°)	110.1	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7
2.5°	12538.1	12610.2	12569.0	12548.4	12512.3	12460.7	12419.5	12290.6	12156.6	12068.9
5°	12790.7	12862.8	12857.7	12878.3	12904.1	12919.6	12909.2	12764.9	12574.1	12424.6
7.5°	12574.1	12656.6	12723.7	12826.8	13007.2	13198.0	13290.8	13259.8	13063.9	12857.7
10°	11960.6	12048.3	12208.1	12450.4	12831.9	13244.4	13589.8	13749.6	13625.9	13399.0
12.5°	10836.8	10924.4	11238.9	11764.7	12404.0	13120.6	13780.5	14208.4	14239.4	14012.5
15°	9573.7	9661.3	9996.4	10656.3	11630.7	12780.4	13883.6	14693.0	14966.3	14770.4
17.5°	8790.0	8867.4	9120.0	9651.0	10666.6	12099.8	13847.5	15208.6	15832.4	15677.7
20°	8552.9	8619.9	8738.5	9109.7	9955.2	11393.5	13610.4	15693.2	16765.5	16677.9
22.5°	8805.5	8867.4	8903.5	9068.4	9599.4	10929.6	13311.4	16188.1	17848.2	17858.5
25°	9388.1	9449.9	9408.7	9511.8	9743.8	10785.2	13198.0	16770.7	19209.2	19322.6
27.5°	10347.0	10352.1	10254.2	10249.0	10285.1	11001.7	13316.5	17394.5	20926.0	21137.3
30°	12270.0	12192.6	11816.3	11409.0	11223.4	11651.3	13646.5	18131.7	22952.1	23328.4
32.5°	15234.4	15120.9	14430.1	13455.7	12476.2	12697.9	14239.4	18972.1	25158.6	25839.1
35°	18451.4	18420.4	17698.7	16250.0	14538.4	14187.8	15203.4	20075.3	27566.2	28648.8
37.5°	21441.5	21426.1	21013.6	19307.2	17224.4	16265.4	16750.1	21518.8	30143.9	31711.2
40°	24173.9	24220.3	23807.9	22281.9	20183.6	18930.8	18853.5	23302.6	33010.3	35046.8
42.5°	26535.1	26586.7	26169.1	25040.0	23106.7	21879.7	21436.4	25488.5	35809.8	38629.8
45°	28138.4	28458.1	28396.2	27494.0	26107.2	24833.8	24539.9	28231.2	39001.0	42429.4
47.5°	28592.1	28886.0	29350.0	29473.7	28628.2	27375.4	27726.0	31535.9	42228.3	46234.1
50°	27473.4	27746.6	28710.7	29994.4	30582.1	30195.5	30824.4	35077.7	45532.9	50028.5
52.5°	25266.9	25545.3	26761.9	28793.2	31190.5	32407.2	33933.2	38567.9	48734.5	53621.8
55°	22075.6	22369.5	23931.6	26230.9	30030.5	33319.7	36526.4	42053.0	51667.9	56854.3
57.5°	17734.7	17951.3	19575.2	22792.2	27112.5	32412.3	38439.0	45857.7	54431.2	60030.1
60°	11558.5	11749.3	13636.2	17224.4	22276.7	29380.9	38820.5	50100.7	58101.9	64159.6
62.5°	7686.8	7815.7	8934.4	11568.8	15688.0	23560.4	36588.2	53487.8	63484.2	71346.3
65°	5274.0	5402.9	6521.6	8357.0	10135.6	15584.9	30169.7	53039.3	68361.3	77053.4
67.5°	3763.5	3871.7	4820.3	6552.6	7336.2	9053.0	20451.7	47306.4	67660.1	77269.9
70°	2696.3	2758.2	3541.8	5103.9	5830.8	5439.0	11372.9	36180.9	59241.3	71351.4
72.5°	1886.9	1907.5	2459.1	3887.2	4696.6	3969.7	5413.2	24122.4	44806.0	56003.7
75°	1278.6	1304.3	1654.9	2851.0	3768.6	3031.4	2866.4	12935.0	26303.1	30999.7
77.5°	783.6	793.9	1067.2	1948.8	2820.0	2309.6	1845.7	5480.2	10176.9	9991.3
80°	443.4	443.4	680.5	1211.5	1923.0	1489.9	1294.0	2330.3	3222.2	2830.3
82.5°	247.5	252.6	494.9	752.7	1273.4	881.6	711.5	1077.5	1392.0	1232.2
85°	103.1	113.4	304.2	355.7	608.3	438.2	288.7	453.7	515.5	458.8
87.5°	10.3	15.5	92.8	67.0	72.2	87.6	41.2	87.6	72.2	72.2
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°
11862.7	0°	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7	11862.7
12038.0	2.5°	11940.0	11862.7	11666.8	11439.9	11140.9	10996.6	10800.7	10666.6	10553.2	10563.5
12337.0	5°	12172.0	11976.1	11537.9	10991.4	10310.9	9826.3	9310.7	8955.0	8666.3	8604.4
12749.4	7.5°	12491.7	12182.3	11414.2	10429.5	9279.8	8408.5	7630.1	7130.0	6774.3	6660.8
13249.5	10°	12904.1	12455.6	11254.3	9723.2	8068.3	6959.9	6124.7	5732.9	5490.6	5408.1
13837.2	12.5°	13383.5	12770.1	11043.0	8862.2	6820.7	5753.5	5222.5	5026.6	4949.2	4923.5
14559.0	15°	13986.7	13161.9	10723.3	7841.4	5763.8	5016.3	4789.4	4763.6	4773.9	4763.6
15425.1	17.5°	14703.3	13589.8	10202.6	6789.7	5052.3	4639.9	4557.4	4578.0	4603.8	4598.7
16394.3	20°	15487.0	14012.5	9537.6	5856.6	4567.7	4371.8	4325.4	4346.0	4366.7	4356.4
17513.1	22.5°	16378.9	14466.2	8800.4	5129.7	4242.9	4124.4	4072.8	4078.0	4078.0	4057.3
18930.8	25°	17446.0	14966.3	8027.0	4614.1	3995.5	3902.7	3840.8	3820.2	3789.3	3727.4
20652.7	27.5°	18719.4	15497.3	7284.7	4253.2	3799.6	3711.9	3639.7	3588.2	3510.9	3407.8
22720.1	30°	20152.7	16141.7	6655.7	4026.4	3644.9	3557.3	3474.8	3397.4	3284.0	3155.1
25096.7	32.5°	21838.5	16832.5	6196.9	3876.9	3505.7	3412.9	3315.0	3222.2	3098.4	2969.5
27767.3	35°	23849.1	17667.7	5928.8	3773.8	3397.4	3273.7	3165.4	3062.3	2969.5	2856.1
30669.8	37.5°	26029.9	18554.5	5846.3	3722.2	3325.3	3134.5	3010.8	2938.6	2928.3	2861.3
33809.4	40°	28416.8	19606.2	5908.1	3691.3	3247.9	3000.5	2866.4	2851.0	2876.7	2758.2
37165.6	42.5°	30943.0	20853.8	6011.3	3655.2	3139.7	2866.4	2737.5	2737.5	2716.9	2551.9
40712.6	45°	33675.4	22292.2	6114.4	3567.6	3010.8	2732.4	2634.4	2598.3	2510.7	2350.9
44280.2	47.5°	36428.4	23756.3	6191.7	3407.8	2856.1	2619.0	2531.3	2448.8	2320.0	2175.6
47780.7	50°	39042.2	25071.0	6109.2	3170.6	2680.8	2510.7	2417.9	2304.5	2165.3	2067.3
51095.7	52.5°	41377.6	26210.3	5758.6	2892.2	2495.2	2397.3	2314.8	2196.2	2082.8	1979.7
54085.8	55°	43408.9	27133.1	5140.0	2629.3	2330.3	2299.3	2216.8	2067.3	1912.7	1825.0
57050.2	57.5°	45357.7	27834.3	4366.7	2412.8	2180.8	2191.1	2067.3	1933.3	1788.9	1696.1
61045.7	60°	47950.8	28772.6	3583.0	2211.7	2020.9	2051.9	1917.8	1819.9	1639.4	1520.9
67897.3	62.5°	52095.8	30231.6	2845.8	1964.2	1835.3	1845.7	1788.9	1670.4	1453.8	1314.6
72975.4	65°	55385.0	29695.4	2242.6	1696.1	1624.0	1639.4	1639.4	1510.5	1278.6	1118.7
73248.6	67.5°	55013.8	25426.7	1788.9	1433.2	1422.9	1433.2	1469.3	1361.0	1134.2	1005.3
67670.4	70°	50678.1	20224.8	1433.2	1190.9	1237.3	1211.5	1314.6	1242.5	1020.8	891.9
52461.9	72.5°	41351.9	14569.3	1093.0	984.7	948.6	989.8	1185.8	1118.7	850.6	706.3
27787.9	75°	24163.6	7774.4	814.6	778.5	685.7	824.9	1051.7	953.8	649.6	520.7
8516.8	77.5°	7867.2	2711.8	598.0	572.3	510.4	665.1	897.0	804.3	531.0	412.4
2495.2	80°	2108.6	819.7	407.3	376.3	329.9	494.9	711.5	639.3	381.5	268.1
1072.3	82.5°	845.5	345.4	237.2	211.4	180.4	340.3	561.9	515.5	283.5	170.1
335.1	85°	273.2	113.4	87.6	67.0	82.5	211.4	335.1	350.6	201.1	87.6
51.6	87.5°	36.1	15.5	15.5	20.6	15.5	36.1	103.1	98.0	56.7	10.3
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°
11862.7
10460.4
8465.2
6547.4
5346.2
4908.0
4758.5
4588.4
4351.2
4047.0
3717.1
3397.4
3144.8
2974.7
2845.8
2856.1
2763.3
2551.9
2345.7
2170.4
2051.9
1969.4
1814.7
1685.8
1505.4
1304.3
1103.3
984.7
876.4
690.8
505.2
397.0
262.9
170.1
67.0
0.0
0.0

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