

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: P941334

Luminaire Tested: **GALN-SB4D-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941334
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-SB4D-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 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: 25897 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

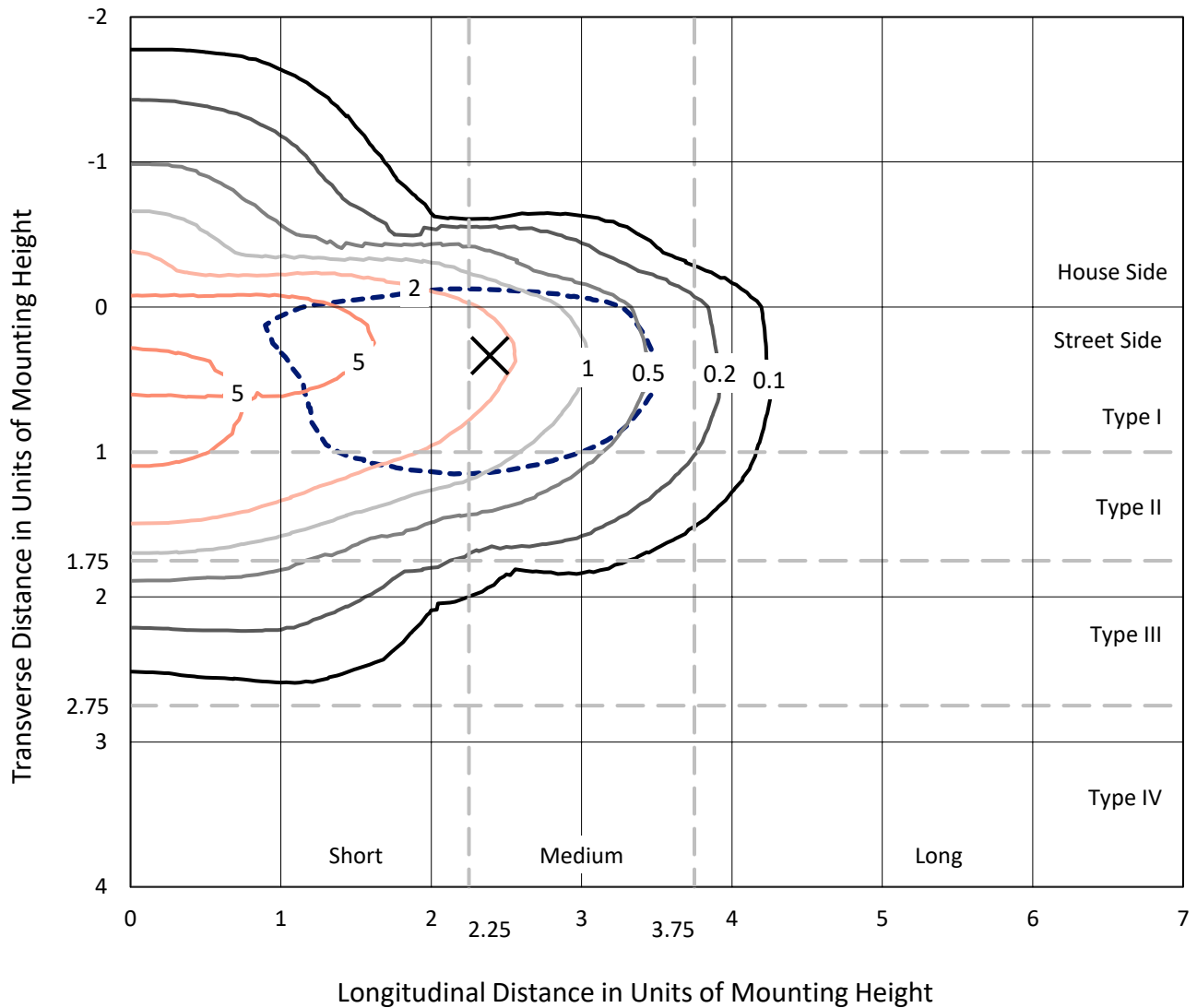
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

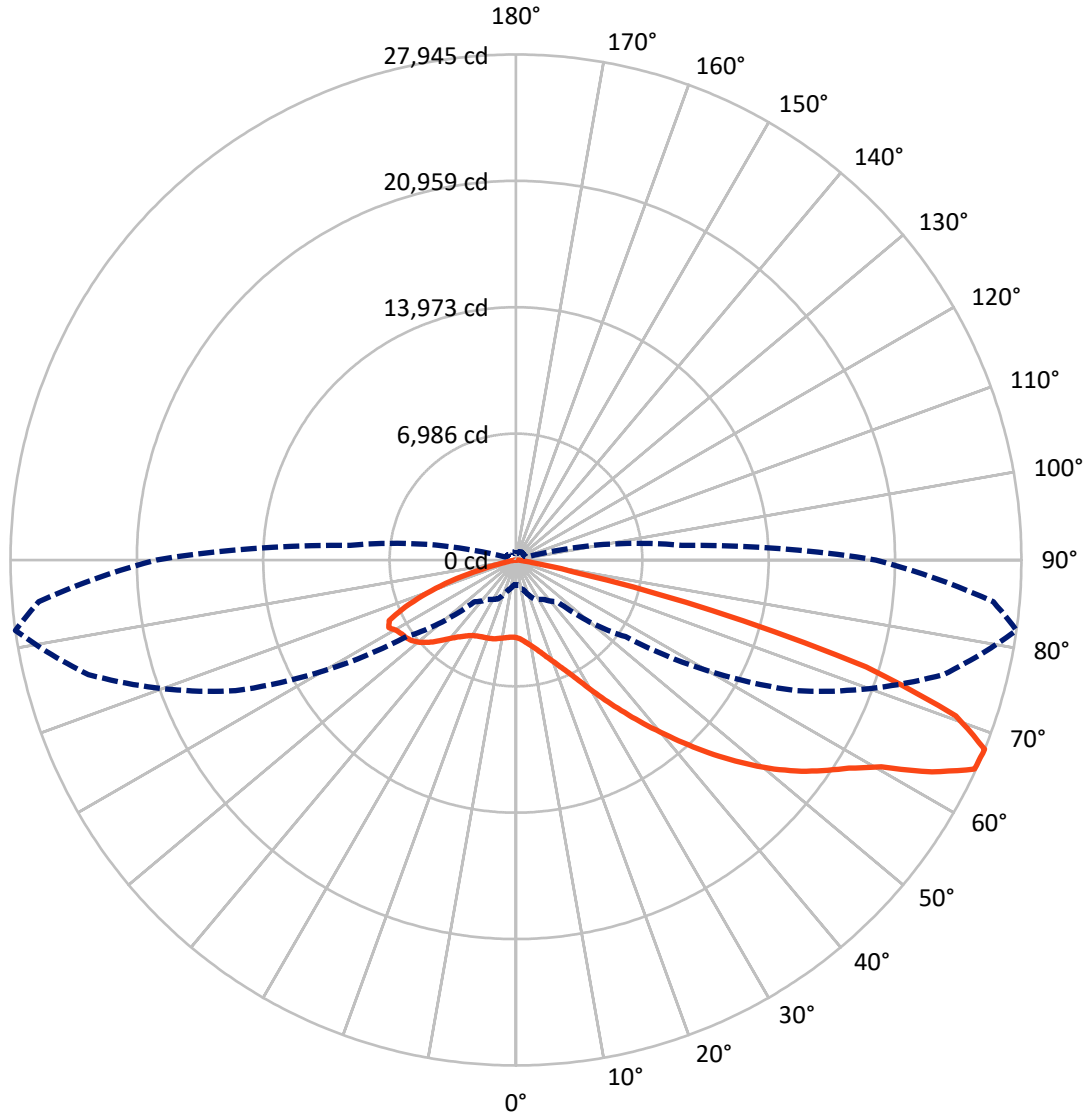
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4691.0	0.0	4691.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21206.0	0.0	21206.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	25897.0	0.0	25897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	1.5
10°-20°	993.3	3.8
20°-30°	1590.9	6.1
30°-40°	2813.2	10.9
40°-50°	4929.0	19.0
50°-60°	6573.9	25.4
60°-70°	6119.9	23.6
70°-80°	2348.8	9.1
80°-90°	145.9	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°	25897.0	100.0
0°-180°	25897.0	100.0

Coefficient of Utilization



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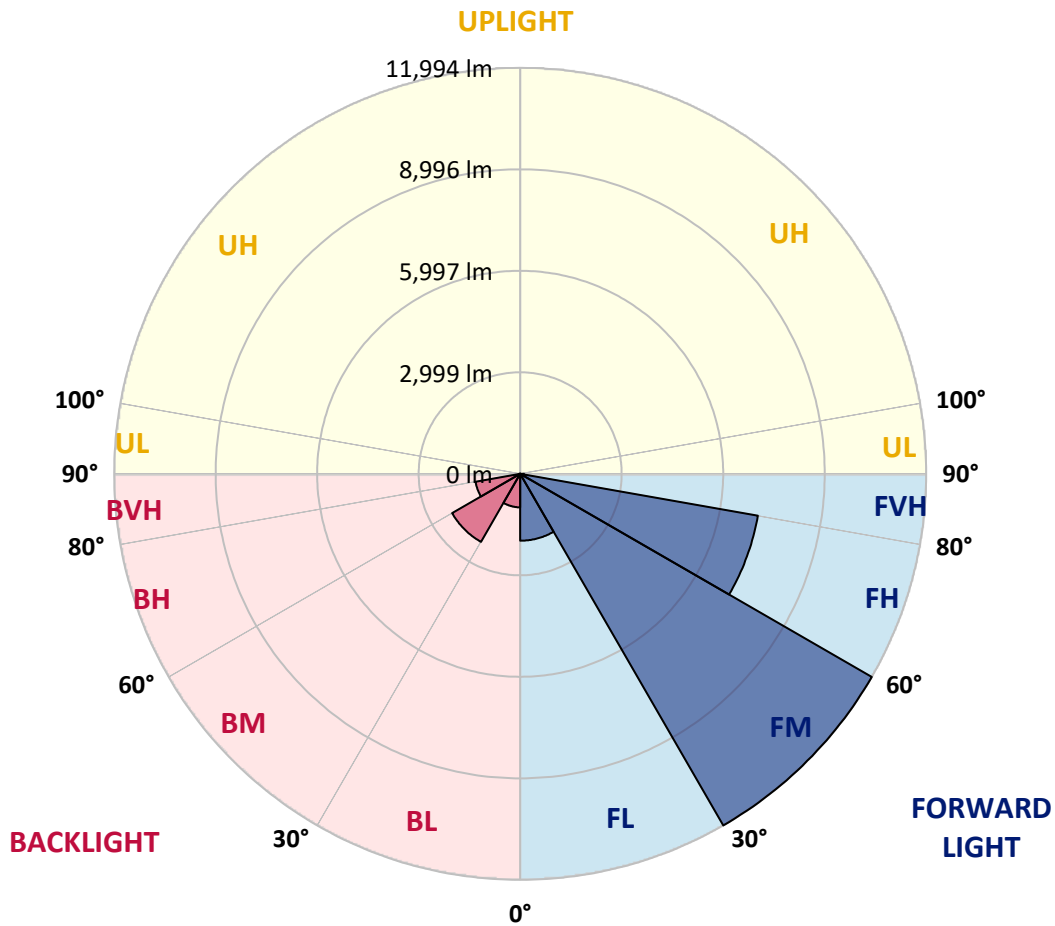
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.7	7.6			
FM (30°-60°)	11994.4	46.3			
FH (60°-80°)	7129.8	27.5			G3/7500
FVH (80°-90°)	106.1	0.4			G2/225
BL (0°-30°)	990.7	3.8	B2/1000		
BM (30°-60°)	2321.6	9.0	B2/2500		
BH (60°-80°)	1338.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	39.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3
2.5°	4534.5	4560.6	4545.7	4538.2	4525.2	4506.5	4491.6	4445.0	4396.5	4364.8
5°	4625.9	4652.0	4650.1	4657.6	4666.9	4672.5	4668.8	4616.5	4547.6	4493.5
7.5°	4547.6	4577.4	4601.6	4638.9	4704.2	4773.2	4806.7	4795.5	4724.7	4650.1
10°	4325.7	4357.4	4415.2	4502.8	4640.8	4789.9	4914.9	4972.7	4927.9	4845.9
12.5°	3919.2	3950.9	4064.6	4254.8	4486.0	4745.2	4983.9	5138.6	5149.8	5067.8
15°	3462.4	3494.1	3615.3	3854.0	4206.4	4622.1	5021.1	5313.9	5412.7	5341.8
17.5°	3179.0	3207.0	3298.3	3490.4	3857.7	4376.0	5008.1	5500.3	5725.9	5670.0
20°	3093.2	3117.5	3160.4	3294.6	3600.4	4120.6	4922.3	5675.6	6063.4	6031.7
22.5°	3184.6	3207.0	3220.0	3279.7	3471.7	3952.8	4814.2	5854.6	6455.0	6458.7
25°	3395.3	3417.7	3402.7	3440.0	3523.9	3900.6	4773.2	6065.3	6947.2	6988.2
27.5°	3742.1	3744.0	3708.5	3706.7	3719.7	3978.9	4816.1	6290.9	7568.1	7644.5
30°	4437.6	4409.6	4273.5	4126.2	4059.1	4213.8	4935.4	6557.5	8300.8	8436.9
32.5°	5509.7	5468.6	5218.8	4866.4	4512.1	4592.3	5149.8	6861.4	9098.8	9345.0
35°	6673.1	6661.9	6400.9	5877.0	5257.9	5131.2	5498.5	7260.4	9969.6	10361.1
37.5°	7754.5	7748.9	7599.8	6982.6	6229.4	5882.6	6057.8	7782.5	10901.8	11468.7
40°	8742.7	8759.5	8610.3	8058.4	7299.6	6846.5	6818.5	8427.6	11938.5	12675.0
42.5°	9596.7	9615.3	9464.3	9056.0	8356.8	7913.0	7752.7	9218.2	12950.9	13970.8
45°	10176.5	10292.1	10269.8	9943.5	9441.9	8981.4	8875.1	10210.1	14105.1	15345.0
47.5°	10340.6	10446.9	10614.7	10659.5	10353.7	9900.6	10027.4	11405.3	15272.3	16721.0
50°	9936.0	10034.8	10383.5	10847.8	11060.3	10920.5	11148.0	12686.2	16467.4	18093.3
52.5°	9138.0	9238.7	9678.7	10413.3	11280.3	11720.4	12272.3	13948.5	17625.3	19392.9
55°	7983.9	8090.1	8655.1	9486.7	10860.8	12050.4	13210.1	15208.9	18686.2	20561.9
57.5°	6413.9	6492.3	7079.6	8243.0	9805.5	11722.2	13901.8	16584.9	19685.6	21710.5
60°	4180.2	4249.2	4931.7	6229.4	8056.6	10625.9	14039.8	18119.4	21013.1	23203.9
62.5°	2780.0	2826.6	3231.2	4184.0	5673.7	8520.8	13232.5	19344.4	22959.7	25803.1
65°	1907.4	1954.0	2358.6	3022.4	3665.6	5636.4	10911.2	19182.2	24723.5	27867.1
67.5°	1361.1	1400.3	1743.3	2369.8	2653.2	3274.1	7396.5	17108.8	24469.9	27945.4
70°	975.1	997.5	1280.9	1845.9	2108.8	1967.1	4113.1	13085.2	21425.2	25804.9
72.5°	682.4	689.9	889.4	1405.8	1698.6	1435.7	1957.7	8724.1	16204.5	20254.3
75°	462.4	471.7	598.5	1031.1	1363.0	1096.3	1036.7	4678.1	9512.8	11211.3
77.5°	283.4	287.1	386.0	704.8	1019.9	835.3	667.5	1982.0	3680.6	3613.4
80°	160.3	160.3	246.1	438.2	695.5	538.8	468.0	842.8	1165.3	1023.6
82.5°	89.5	91.4	179.0	272.2	460.5	318.8	257.3	389.7	503.4	445.6
85°	37.3	41.0	110.0	128.7	220.0	158.5	104.4	164.1	186.5	165.9
87.5°	3.7	5.6	33.6	24.2	26.1	31.7	14.9	31.7	26.1	26.1
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°
4290.3	0°	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3	4290.3
4353.7	2.5°	4318.2	4290.3	4219.4	4137.4	4029.2	3977.0	3906.2	3857.7	3816.7	3820.4
4461.8	5°	4402.1	4331.3	4172.8	3975.2	3729.0	3553.8	3367.3	3238.7	3134.3	3111.9
4611.0	7.5°	4517.7	4405.9	4128.0	3771.9	3356.1	3041.0	2759.5	2578.6	2450.0	2409.0
4791.8	10°	4666.9	4504.7	4070.2	3516.5	2918.0	2517.1	2215.0	2073.3	1985.7	1955.9
5004.4	12.5°	4840.3	4618.4	3993.8	3205.1	2466.8	2080.8	1888.8	1817.9	1789.9	1780.6
5265.4	15°	5058.4	4760.1	3878.2	2835.9	2084.5	1814.2	1732.1	1722.8	1726.5	1722.8
5578.6	17.5°	5317.6	4914.9	3689.9	2455.6	1827.2	1678.1	1648.2	1655.7	1665.0	1663.2
5929.2	20°	5601.0	5067.8	3449.4	2118.1	1652.0	1581.1	1564.3	1571.8	1579.2	1575.5
6333.8	22.5°	5923.6	5231.8	3182.7	1855.2	1534.5	1491.6	1473.0	1474.8	1474.8	1467.4
6846.5	25°	6309.5	5412.7	2903.1	1668.7	1445.0	1411.4	1389.1	1381.6	1370.4	1348.0
7469.3	27.5°	6770.1	5604.7	2634.6	1538.2	1374.1	1342.5	1316.3	1297.7	1269.7	1232.4
8216.9	30°	7288.4	5837.8	2407.1	1456.2	1318.2	1286.5	1256.7	1228.7	1187.7	1141.1
9076.5	32.5°	7898.1	6087.7	2241.2	1402.1	1267.9	1234.3	1198.9	1165.3	1120.6	1074.0
10042.3	35°	8625.3	6389.7	2144.2	1364.8	1228.7	1184.0	1144.8	1107.5	1074.0	1032.9
11092.0	37.5°	9414.0	6710.4	2114.4	1346.2	1202.6	1133.6	1088.9	1062.8	1059.0	1034.8
12227.5	40°	10277.2	7090.8	2136.7	1335.0	1174.6	1085.1	1036.7	1031.1	1040.4	997.5
13441.3	42.5°	11190.8	7542.0	2174.0	1321.9	1135.5	1036.7	990.1	990.1	982.6	922.9
14724.1	45°	12179.0	8062.2	2211.3	1290.2	1088.9	988.2	952.8	939.7	908.0	850.2
16014.3	47.5°	13174.7	8591.7	2239.3	1232.4	1032.9	947.2	915.5	885.6	839.0	786.8
17280.4	50°	14120.0	9067.2	2209.5	1146.7	969.5	908.0	874.5	833.4	783.1	747.7
18479.2	52.5°	14964.6	9479.2	2082.7	1046.0	902.4	867.0	837.2	794.3	753.3	716.0
19560.7	55°	15699.2	9813.0	1858.9	950.9	842.8	831.6	801.7	747.7	691.7	660.0
20632.8	57.5°	16404.0	10066.5	1579.2	872.6	788.7	792.4	747.7	699.2	647.0	613.4
22077.8	60°	17341.9	10405.9	1295.8	799.9	730.9	742.1	693.6	658.2	592.9	550.0
24555.7	62.5°	18841.0	10933.5	1029.2	710.4	663.8	667.5	647.0	604.1	525.8	475.5
26392.3	65°	20030.5	10739.6	811.1	613.4	587.3	592.9	592.9	546.3	462.4	404.6
26491.1	67.5°	19896.3	9195.8	647.0	518.3	514.6	518.3	531.4	492.2	410.2	363.6
24473.7	70°	18328.2	7314.5	518.3	430.7	447.5	438.2	475.5	449.3	369.2	322.6
18973.3	72.5°	14955.3	5269.1	395.3	356.1	343.1	358.0	428.8	404.6	307.6	255.4
10049.8	75°	8739.0	2811.7	294.6	281.5	248.0	298.3	380.4	344.9	234.9	188.3
3080.2	77.5°	2845.3	980.7	216.3	207.0	184.6	240.5	324.4	290.9	192.0	149.2
902.4	80°	762.6	296.5	147.3	136.1	119.3	179.0	257.3	231.2	138.0	97.0
387.8	82.5°	305.8	124.9	85.8	76.4	65.3	123.1	203.2	186.5	102.5	61.5
121.2	85°	98.8	41.0	31.7	24.2	29.8	76.4	121.2	126.8	72.7	31.7
18.6	87.5°	13.1	5.6	5.6	7.5	5.6	13.1	37.3	35.4	20.5	3.7
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°
4290.3
3783.1
3061.5
2367.9
1933.5
1775.0
1721.0
1659.4
1573.7
1463.6
1344.3
1228.7
1137.4
1075.8
1029.2
1032.9
999.4
922.9
848.4
785.0
742.1
712.2
656.3
609.7
544.4
471.7
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356.1
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249.8
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