

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: P942894

Luminaire Tested: **GALN-SB7A-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942894
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-SB7A-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 350mA 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: 22282 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

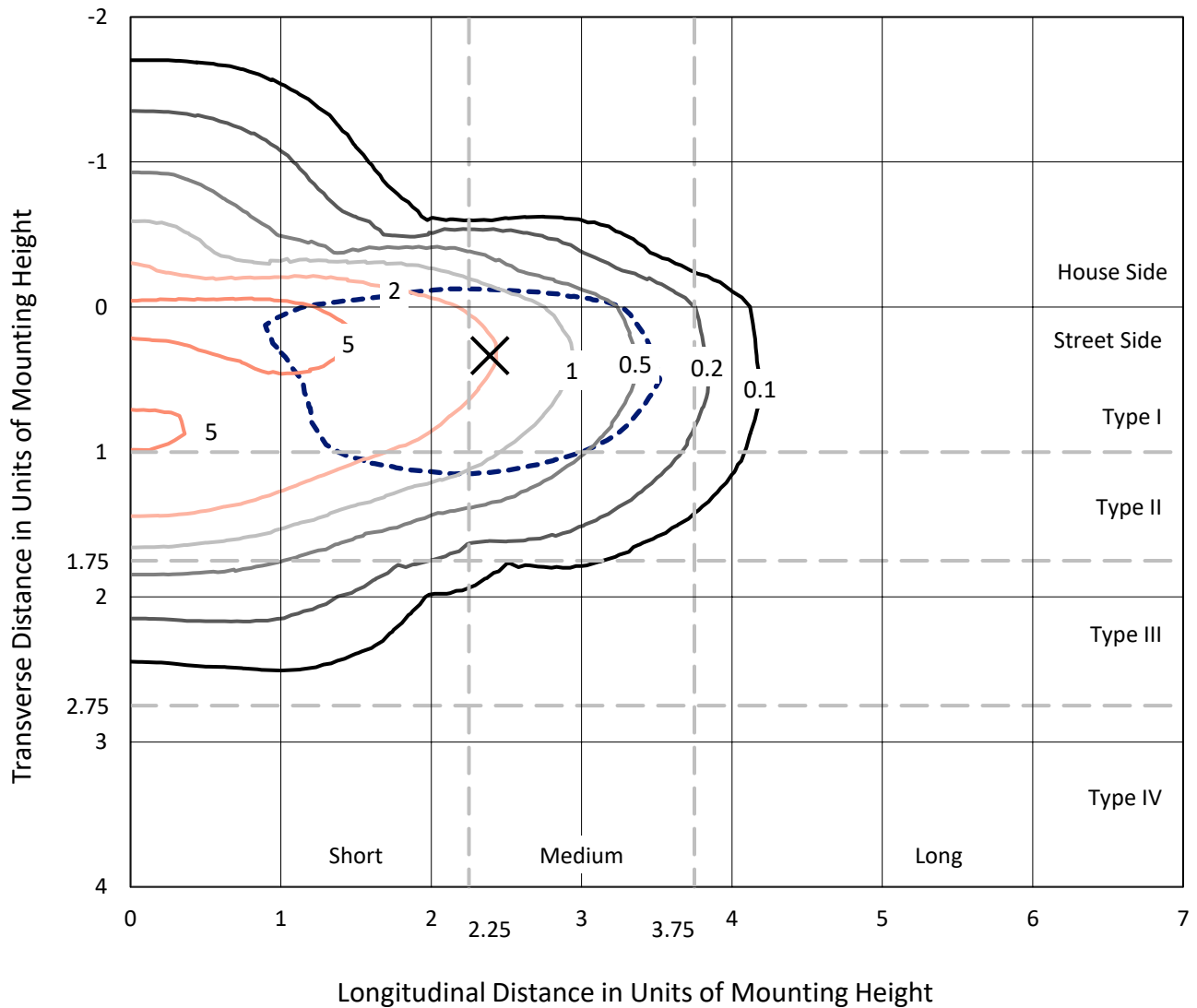
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

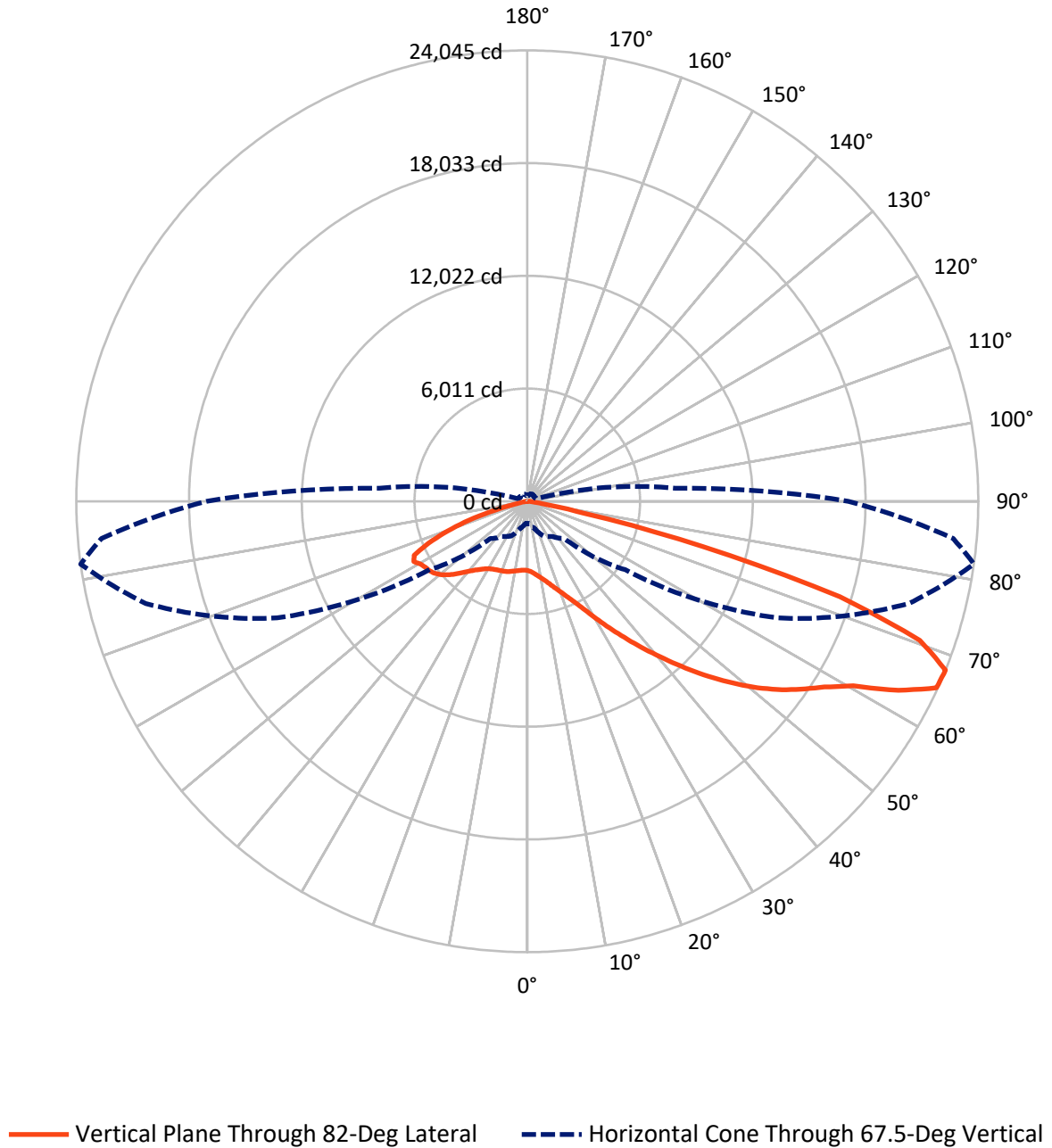
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4036.2	0.0	4036.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18245.8	0.0	18245.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	22282.0	0.0	22282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	1.5
10°-20°	854.6	3.8
20°-30°	1368.8	6.1
30°-40°	2420.5	10.9
40°-50°	4240.9	19.0
50°-60°	5656.2	25.4
60°-70°	5265.6	23.6
70°-80°	2020.9	9.1
80°-90°	125.5	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°	22282.0	100.0
0°-180°	22282.0	100.0

Coefficient of Utilization



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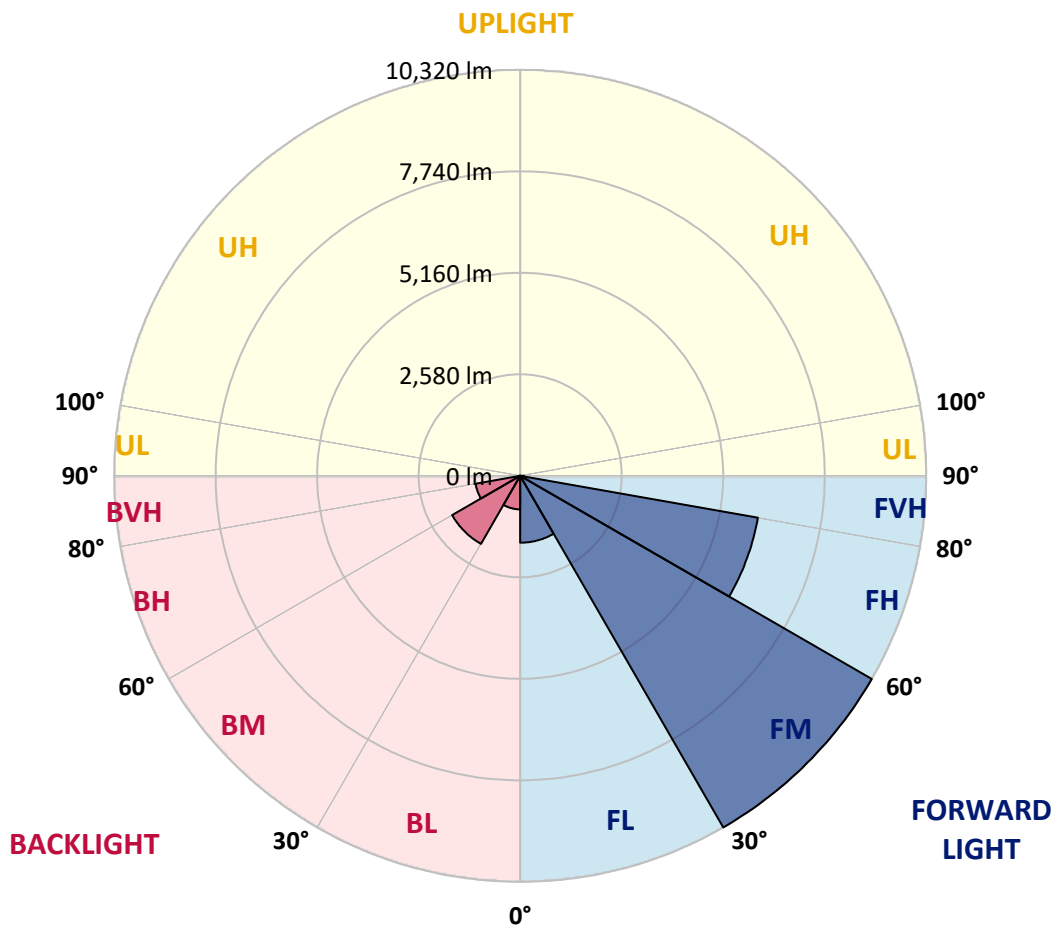
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.9	7.6			
FM (30°-60°)	10320.1	46.3			
FH (60°-80°)	6134.6	27.5			G3/7500
FVH (80°-90°)	91.3	0.4			G1/100
BL (0°-30°)	852.4	3.8	B2/1000		
BM (30°-60°)	1997.5	9.0	B2/2500		
BH (60°-80°)	1152.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	34.3	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°	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4
2.5°	3901.5	3924.0	3911.2	3904.7	3893.5	3877.5	3864.6	3824.5	3782.8	3755.5
5°	3980.1	4002.6	4001.0	4007.4	4015.4	4020.2	4017.0	3972.1	3912.8	3866.2
7.5°	3912.8	3938.4	3959.3	3991.4	4047.5	4106.9	4135.7	4126.1	4065.2	4001.0
10°	3721.9	3749.1	3798.9	3874.3	3993.0	4121.3	4228.8	4278.5	4240.0	4169.4
12.5°	3372.1	3399.4	3497.3	3660.9	3859.8	4082.8	4288.2	4421.3	4430.9	4360.3
15°	2979.1	3006.4	3110.6	3316.0	3619.2	3976.9	4320.2	4572.1	4657.1	4596.2
17.5°	2735.2	2759.3	2837.9	3003.2	3319.2	3765.2	4309.0	4732.5	4926.6	4878.5
20°	2661.4	2682.3	2719.2	2834.7	3097.8	3545.4	4235.2	4883.3	5217.0	5189.7
22.5°	2740.1	2759.3	2770.5	2821.9	2987.1	3401.0	4142.2	5037.3	5553.9	5557.1
25°	2921.3	2940.6	2927.8	2959.8	3032.0	3356.1	4106.9	5218.6	5977.4	6012.7
27.5°	3219.7	3221.3	3190.8	3189.2	3200.5	3423.5	4143.8	5412.7	6511.6	6577.4
30°	3818.1	3794.0	3676.9	3550.2	3492.4	3625.6	4246.4	5642.1	7142.1	7259.2
32.5°	4740.6	4705.3	4490.3	4187.1	3882.3	3951.3	4430.9	5903.6	7828.7	8040.5
35°	5741.6	5732.0	5507.4	5056.6	4524.0	4414.9	4730.9	6246.9	8577.9	8914.8
37.5°	6672.1	6667.3	6538.9	6007.9	5359.8	5061.4	5212.2	6696.1	9380.0	9867.7
40°	7522.3	7536.8	7408.4	6933.6	6280.6	5890.8	5866.7	7251.2	10272.0	10905.7
42.5°	8257.1	8273.1	8143.2	7791.8	7190.2	6808.4	6670.5	7931.4	11143.1	12020.6
45°	8756.0	8855.4	8836.2	8555.5	8123.9	7727.7	7636.2	8784.9	12136.1	13203.0
47.5°	8897.2	8988.6	9133.0	9171.5	8908.4	8518.6	8627.6	9813.2	13140.4	14386.9
50°	8549.0	8634.1	8934.1	9333.5	9516.4	9396.1	9591.8	10915.3	14168.7	15567.6
52.5°	7862.4	7949.0	8327.6	8959.7	9705.7	10084.3	10559.2	12001.4	15165.0	16685.8
55°	6869.4	6960.8	7446.9	8162.4	9344.7	10368.3	11366.1	13085.8	16077.8	17691.6
57.5°	5518.6	5586.0	6091.3	7092.4	8436.7	10085.9	11961.3	14269.8	16937.6	18679.9
60°	3596.7	3656.1	4243.2	5359.8	6932.0	9142.6	12080.0	15590.1	18079.9	19964.9
62.5°	2391.9	2432.0	2780.2	3599.9	4881.7	7331.4	11385.3	16644.1	19754.7	22201.2
65°	1641.1	1681.3	2029.4	2600.5	3154.0	4849.6	9388.1	16504.5	21272.3	23977.1
67.5°	1171.1	1204.8	1500.0	2039.0	2282.8	2817.1	6364.0	14720.6	21054.1	24044.5
70°	839.0	858.3	1102.1	1588.2	1814.4	1692.5	3539.0	11258.6	18434.4	22202.8
72.5°	587.2	593.6	765.2	1209.6	1461.5	1235.3	1684.5	7506.3	13942.5	17426.9
75°	397.9	405.9	515.0	887.1	1172.7	943.3	892.0	4025.1	8184.9	9646.3
77.5°	243.8	247.1	332.1	606.4	877.5	718.7	574.3	1705.3	3166.8	3109.0
80°	138.0	138.0	211.8	377.0	598.4	463.6	402.7	725.1	1002.7	880.7
82.5°	77.0	78.6	154.0	234.2	396.2	274.3	221.4	335.3	433.1	383.4
85°	32.1	35.3	94.7	110.7	189.3	136.4	89.8	141.2	160.4	142.8
87.5°	3.2	4.8	28.9	20.9	22.5	27.3	12.8	27.3	22.5	22.5
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°
3691.4	0°	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4	3691.4
3745.9	2.5°	3715.4	3691.4	3630.4	3559.8	3466.8	3421.9	3360.9	3319.2	3283.9	3287.1
3839.0	5°	3787.6	3726.7	3590.3	3420.3	3208.5	3057.7	2897.3	2786.6	2696.7	2677.5
3967.3	7.5°	3887.1	3790.8	3551.8	3245.4	2887.6	2616.5	2374.3	2218.7	2108.0	2072.7
4122.9	10°	4015.4	3875.9	3502.1	3025.6	2510.6	2165.7	1905.8	1783.9	1708.5	1682.9
4305.8	12.5°	4164.6	3973.7	3436.3	2757.7	2122.4	1790.3	1625.1	1564.1	1540.1	1532.1
4530.4	15°	4352.3	4095.6	3336.8	2440.1	1793.5	1560.9	1490.3	1482.3	1485.5	1482.3
4799.9	17.5°	4575.3	4228.8	3174.8	2112.8	1572.2	1443.8	1418.2	1424.6	1432.6	1431.0
5101.5	20°	4819.2	4360.3	2967.9	1822.4	1421.4	1360.4	1346.0	1352.4	1358.8	1355.6
5449.6	22.5°	5096.7	4501.5	2738.5	1596.2	1320.3	1283.4	1267.4	1269.0	1269.0	1262.5
5890.8	25°	5428.8	4657.1	2497.8	1435.8	1243.3	1214.4	1195.2	1188.7	1179.1	1159.9
6426.6	27.5°	5825.0	4822.4	2266.8	1323.5	1182.3	1155.1	1132.6	1116.6	1092.5	1060.4
7069.9	30°	6271.0	5022.9	2071.1	1252.9	1134.2	1106.9	1081.3	1057.2	1021.9	981.8
7809.5	32.5°	6795.6	5237.9	1928.3	1206.4	1090.9	1062.0	1031.5	1002.7	964.2	924.0
8640.5	35°	7421.2	5497.8	1844.9	1174.3	1057.2	1018.7	985.0	952.9	924.0	888.8
9543.7	37.5°	8099.8	5773.7	1819.2	1158.3	1034.7	975.4	936.9	914.4	911.2	890.4
10520.7	40°	8842.6	6101.0	1838.5	1148.6	1010.7	933.7	892.0	887.1	895.2	858.3
11565.0	42.5°	9628.7	6489.2	1870.6	1137.4	977.0	892.0	851.9	851.9	845.4	794.1
12668.7	45°	10478.9	6936.8	1902.6	1110.1	936.9	850.3	819.8	808.5	781.3	731.5
13778.9	47.5°	11335.6	7392.4	1926.7	1060.4	888.8	815.0	787.7	762.0	721.9	677.0
14868.2	50°	12149.0	7801.5	1901.0	986.6	834.2	781.3	752.4	717.1	673.8	643.3
15899.7	52.5°	12875.7	8156.0	1791.9	900.0	776.5	746.0	720.3	683.4	648.1	616.0
16830.2	55°	13507.8	8443.2	1599.4	818.2	725.1	715.5	689.8	643.3	595.2	567.9
17752.6	57.5°	14114.2	8661.3	1358.8	750.8	678.6	681.8	643.3	601.6	556.7	527.8
18995.9	60°	14921.1	8953.3	1115.0	688.2	628.9	638.5	596.8	566.3	510.2	473.3
21127.9	62.5°	16210.9	9407.3	885.5	611.2	571.1	574.3	556.7	519.8	452.4	409.1
22708.1	65°	17234.4	9240.5	697.8	527.8	505.3	510.2	510.2	470.0	397.9	348.1
22793.1	67.5°	17118.9	7912.1	556.7	446.0	442.8	446.0	457.2	423.5	352.9	312.8
21057.4	70°	15769.8	6293.5	446.0	370.6	385.0	377.0	409.1	386.6	317.6	277.5
16324.8	72.5°	12867.7	4533.6	340.1	306.4	295.2	308.0	369.0	348.1	264.7	219.8
8646.9	75°	7519.1	2419.2	253.5	242.2	213.4	256.7	327.3	296.8	202.1	162.0
2650.2	77.5°	2448.1	843.8	186.1	178.1	158.8	206.9	279.1	250.3	165.2	128.3
776.5	80°	656.1	255.1	126.7	117.1	102.7	154.0	221.4	198.9	118.7	83.4
333.7	82.5°	263.1	107.5	73.8	65.8	56.1	105.9	174.9	160.4	88.2	52.9
104.3	85°	85.0	35.3	27.3	20.9	25.7	65.8	104.3	109.1	62.6	27.3
16.0	87.5°	11.2	4.8	4.8	6.4	4.8	11.2	32.1	30.5	17.6	3.2
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>
3691.4
3255.0
2634.2
2037.4
1663.6
1527.2
1480.7
1427.8
1354.0
1259.3
1156.7
1057.2
978.6
925.7
885.5
888.8
859.9
794.1
729.9
675.4
638.5
612.8
564.7
524.6
468.4
405.9
343.3
306.4
272.7
215.0
157.2
123.5
81.8
52.9
20.9
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