

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: P943765

Luminaire Tested: **GALN-SB8B-927-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-927-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27462 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

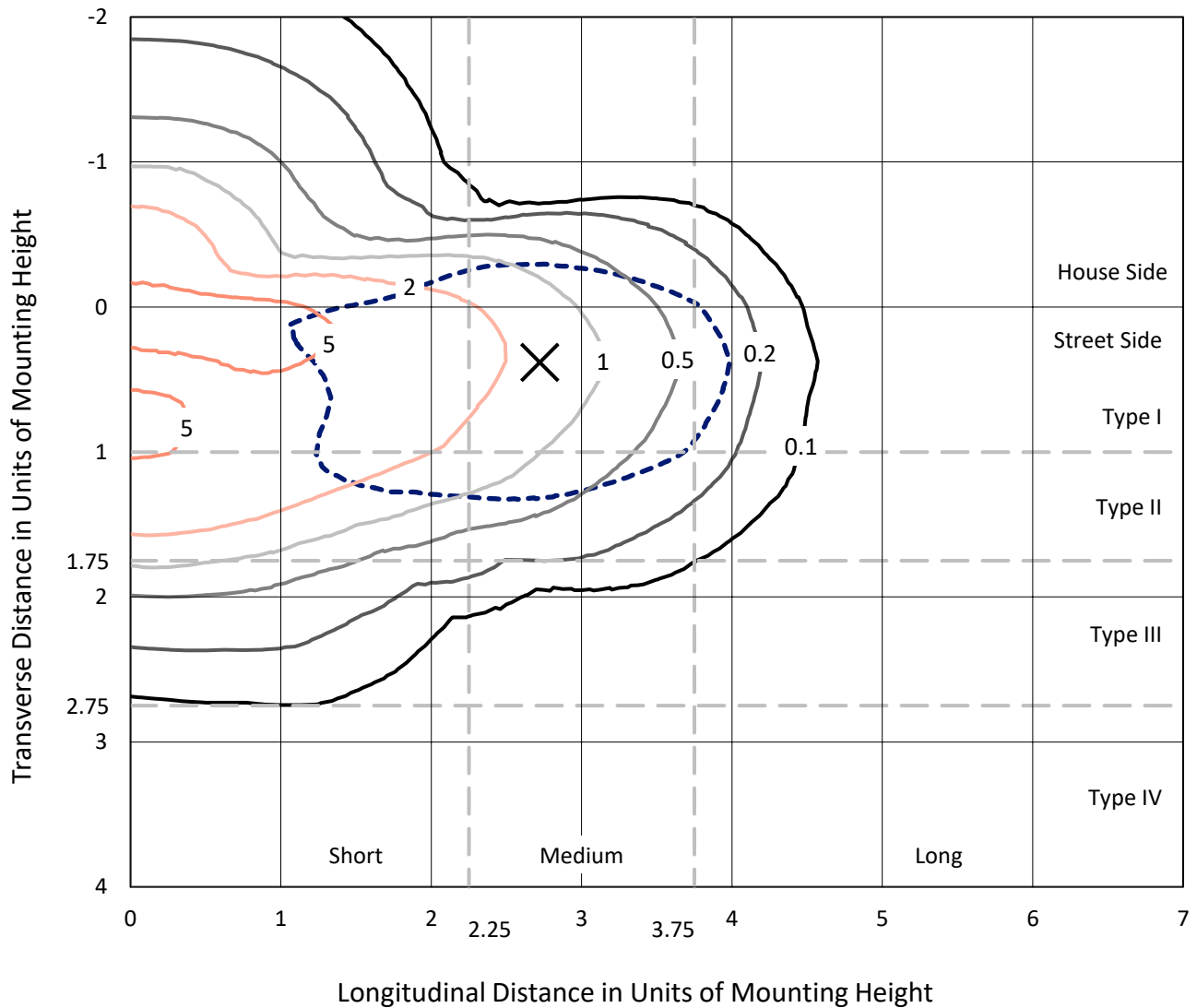
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

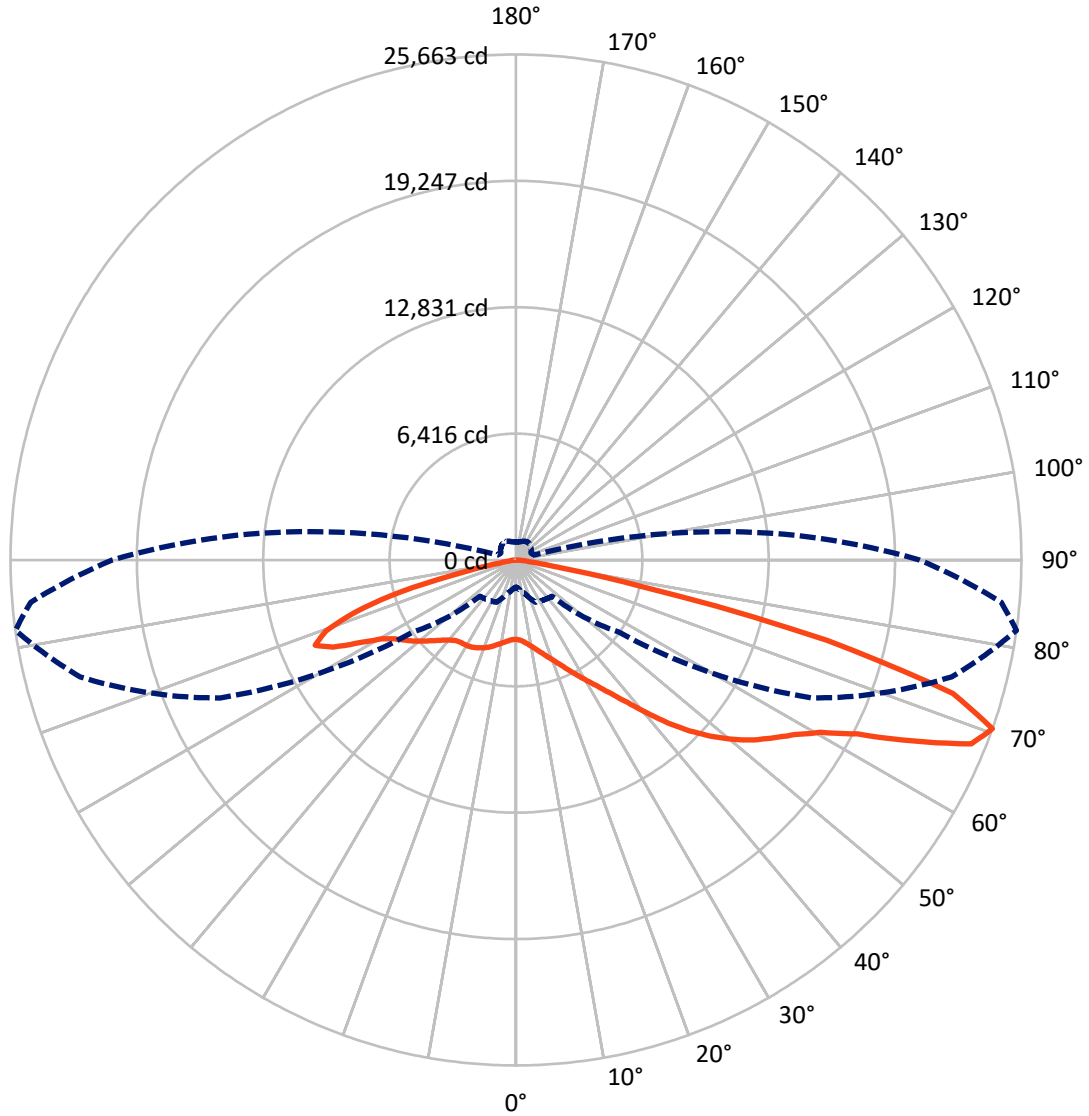
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6770.1	0.0	6770.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20691.9	0.0	20691.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	27462.0	0.0	27462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.2	1.4
10°-20°	1092.2	4.0
20°-30°	1827.1	6.7
30°-40°	2854.5	10.4
40°-50°	4546.1	16.6
50°-60°	6326.4	23.0
60°-70°	6617.7	24.1
70°-80°	3458.8	12.6
80°-90°	359.2	1.3
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°	27462.0	100.0
0°-180°	27462.0	100.0

Coefficient of Utilization



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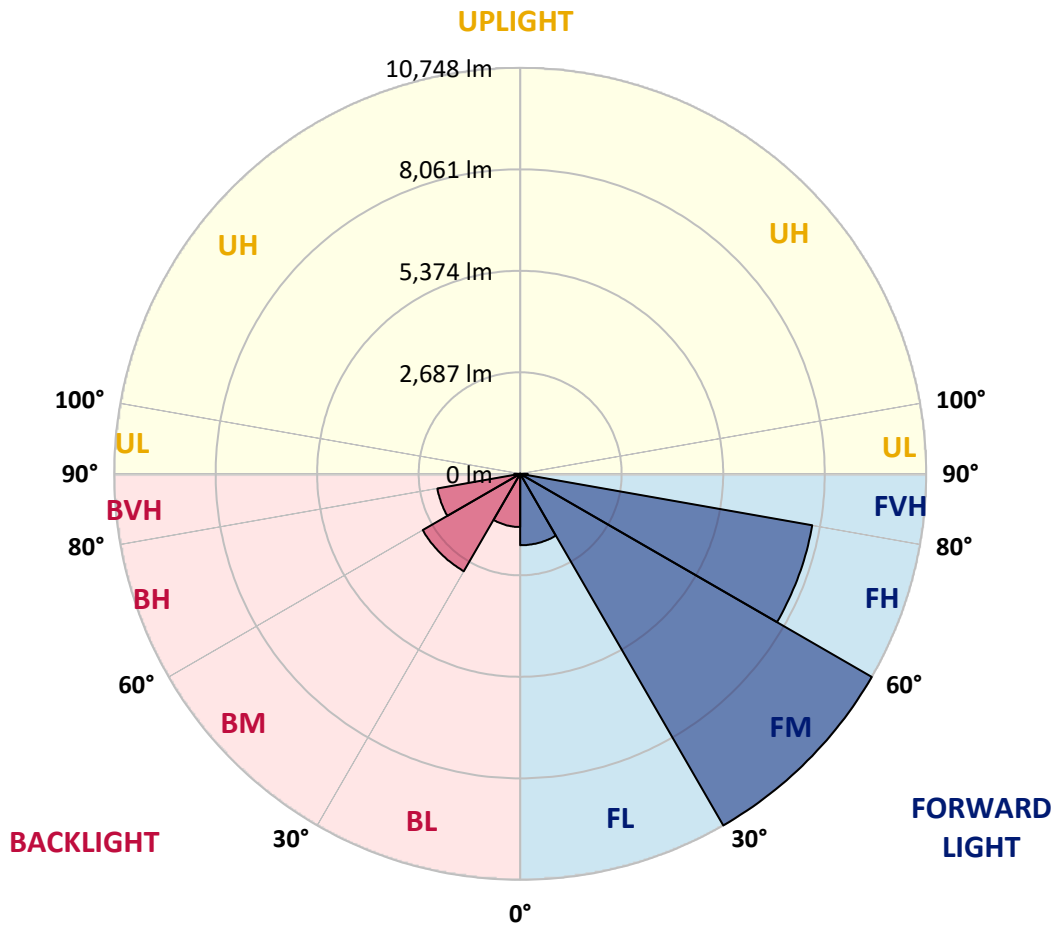
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.1	6.9			
FM (30°-60°)	10748.3	39.1			
FH (60°-80°)	7851.5	28.6			G4/12000
FVH (80°-90°)	201.1	0.7			G2/225
BL (0°-30°)	1408.4	5.1	B3/2500		
BM (30°-60°)	2978.6	10.8	B3/5000		
BH (60°-80°)	2225.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	158.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3
2.5°	4122.4	4145.8	4138.5	4131.2	4131.2	4121.0	4119.5	4105.0	4093.3	4074.4
5°	4174.9	4199.7	4196.8	4202.6	4221.5	4225.9	4230.3	4221.5	4198.2	4174.9
7.5°	4128.3	4156.0	4164.7	4199.7	4258.0	4310.4	4349.8	4365.8	4343.9	4310.4
10°	3970.9	4001.5	4032.1	4115.2	4218.6	4342.5	4447.4	4510.1	4505.7	4473.6
12.5°	3651.8	3683.8	3749.4	3911.2	4100.6	4319.2	4514.4	4645.6	4690.8	4667.4
15°	3396.8	3424.4	3474.0	3640.1	3886.4	4218.6	4539.2	4794.2	4909.3	4896.2
17.5°	3389.5	3401.1	3431.7	3510.4	3699.9	4061.2	4513.0	4939.9	5160.0	5158.5
20°	3517.7	3522.1	3539.6	3555.6	3663.4	3941.8	4445.9	5060.9	5441.2	5441.2
22.5°	3695.5	3692.6	3710.1	3695.5	3747.9	3931.6	4403.7	5167.3	5754.5	5777.8
25°	3962.2	3947.6	3943.2	3909.7	3919.9	4026.3	4450.3	5288.2	6126.1	6174.2
27.5°	4317.7	4294.4	4278.4	4201.1	4174.9	4221.5	4593.1	5433.9	6540.0	6623.0
30°	4781.1	4738.8	4715.5	4581.5	4486.8	4494.0	4808.8	5627.7	6972.8	7106.8
32.5°	5413.5	5348.0	5285.3	5065.3	4891.9	4835.0	5087.1	5895.9	7442.0	7656.2
35°	6121.7	6069.3	6002.3	5662.7	5396.1	5264.9	5463.1	6270.4	7991.3	8330.9
37.5°	6803.7	6758.5	6790.6	6333.0	5989.1	5798.2	5955.6	6773.1	8668.9	9170.2
40°	7509.0	7474.0	7478.4	7041.2	6640.5	6426.3	6553.1	7404.1	9445.6	10168.4
42.5°	8275.5	8249.3	8161.8	7774.2	7323.9	7124.3	7240.9	8132.7	10279.2	11305.0
45°	9133.8	9117.8	9036.2	8591.7	8075.9	7851.5	8008.8	8937.1	11117.1	12374.6
47.5°	9875.5	9888.6	9878.4	9503.9	8969.1	8639.8	8827.8	9776.4	11896.7	13380.1
50°	10232.5	10301.0	10401.6	10285.0	9952.7	9617.6	9654.0	10586.6	12639.8	14322.9
52.5°	10046.0	10175.7	10449.7	10636.2	10764.4	10694.5	10596.8	11391.0	13339.3	15173.9
55°	9350.9	9533.1	9987.7	10438.0	11092.3	11600.9	11729.1	12282.8	14021.3	15922.9
57.5°	8084.6	8380.4	8788.4	9699.2	10800.8	12039.5	13049.3	13520.0	14744.1	16722.9
60°	5913.4	6309.7	6816.8	8172.0	9780.8	11804.9	14172.8	15420.2	15771.4	17759.0
62.5°	3784.4	4029.2	4495.5	5772.0	7621.2	10602.7	14516.7	17795.5	17512.8	19458.1
65°	2590.9	2748.3	3175.3	3892.2	4926.8	7892.3	13595.8	19576.2	20278.5	22151.1
67.5°	1882.7	2002.2	2366.5	2994.6	3210.2	4670.4	10550.2	19494.6	22967.1	24925.6
70°	1372.7	1457.2	1763.2	2366.5	2470.0	2598.2	6391.3	16571.4	22908.8	25662.9
72.5°	1017.1	1075.4	1280.9	1836.1	1999.3	1754.5	3163.6	12043.8	19685.5	23211.9
75°	735.9	779.6	931.2	1404.8	1600.0	1336.3	1578.2	7038.3	13731.3	16328.0
77.5°	562.5	596.0	695.1	1028.8	1280.9	1002.6	979.2	3237.9	6510.8	6542.9
80°	451.7	473.6	527.5	724.2	982.2	750.5	638.3	1307.1	2057.6	1741.4
82.5°	332.2	368.7	445.9	508.6	702.4	517.3	389.1	660.1	782.5	673.2
85°	189.4	214.2	269.6	364.3	448.8	316.2	223.0	292.9	364.3	298.7
87.5°	67.0	87.4	94.7	142.8	195.3	131.1	86.0	84.5	119.5	88.9
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°
4026.3	0°	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3
4070.0	2.5°	4055.4	4048.1	4019.0	3979.6	3938.8	3899.5	3886.4	3858.7	3839.7	3829.5
4164.7	5°	4137.0	4113.7	4045.2	3957.8	3866.0	3766.9	3696.9	3632.8	3586.2	3542.5
4294.4	7.5°	4253.6	4212.8	4094.8	3941.8	3778.5	3613.9	3491.5	3398.2	3335.6	3294.8
4445.9	10°	4389.1	4326.5	4145.8	3917.0	3664.9	3428.8	3284.6	3204.4	3165.1	3143.2
4619.4	12.5°	4545.0	4456.1	4198.2	3860.2	3491.5	3221.9	3122.8	3099.5	3100.9	3102.4
4837.9	15°	4737.4	4613.5	4240.5	3736.3	3265.6	3063.1	3045.6	3083.5	3122.8	3141.7
5085.7	17.5°	4954.5	4779.7	4247.8	3532.3	3044.1	2961.1	3016.4	3098.0	3157.8	3184.0
5362.5	20°	5187.7	4948.7	4195.3	3243.8	2862.0	2878.0	2977.1	3082.0	3147.6	3181.1
5678.7	22.5°	5454.3	5129.4	4070.0	2940.7	2713.3	2787.6	2904.2	3006.2	3074.7	3108.2
6050.3	25°	5758.9	5331.9	3873.3	2685.6	2585.1	2685.6	2802.2	2886.7	2942.1	2972.7
6465.6	27.5°	6097.0	5543.2	3611.0	2483.1	2472.9	2580.7	2676.9	2742.5	2771.6	2794.9
6907.2	30°	6436.5	5735.6	3293.3	2330.1	2375.3	2477.3	2545.7	2574.9	2583.6	2588.0
7399.7	32.5°	6803.7	5901.7	2959.6	2203.3	2282.0	2376.7	2417.5	2430.6	2389.8	2362.1
7997.2	35°	7248.2	6079.5	2633.2	2102.8	2190.2	2271.8	2284.9	2273.2	2225.2	2168.3
8746.2	37.5°	7797.5	6301.0	2372.3	2031.4	2104.2	2158.1	2142.1	2139.2	2143.6	2076.5
9646.7	40°	8470.8	6589.5	2181.4	1976.0	2034.3	2045.9	2000.8	2025.5	2047.4	1945.4
10634.7	42.5°	9218.3	6937.8	2060.5	1938.1	1976.0	1948.3	1878.3	1906.0	1903.1	1769.1
11627.1	45°	9980.4	7316.7	2018.2	1910.4	1922.1	1866.7	1789.5	1796.7	1735.5	1614.6
12578.6	47.5°	10738.2	7723.2	2044.5	1887.1	1855.0	1792.4	1732.6	1700.6	1610.2	1519.9
13490.9	50°	11481.4	8150.2	2140.6	1840.5	1763.2	1726.8	1683.1	1626.2	1530.1	1452.8
14353.5	52.5°	12170.6	8580.1	2248.5	1763.2	1648.1	1670.0	1642.3	1576.7	1482.0	1403.3
15169.6	55°	12823.5	9009.9	2290.7	1656.8	1540.3	1620.4	1604.4	1483.4	1369.8	1305.7
16023.5	57.5°	13534.6	9527.2	2244.1	1521.3	1452.8	1563.6	1502.4	1368.3	1302.7	1254.7
17135.3	60°	14519.6	10338.9	2143.6	1353.7	1369.8	1479.1	1374.1	1318.8	1247.4	1193.5
18802.4	62.5°	16156.1	11853.0	1981.8	1187.6	1272.1	1353.7	1312.9	1257.6	1184.7	1132.3
21652.7	65°	18575.1	13957.2	1677.2	1057.9	1162.9	1231.3	1247.4	1192.0	1116.2	1060.8
24150.3	67.5°	20615.2	15277.4	1269.2	950.1	1050.6	1132.3	1177.4	1123.5	1043.4	989.4
24734.7	70°	20503.0	14318.6	969.0	843.7	951.6	1034.6	1092.9	1050.6	964.7	913.7
22467.3	72.5°	18210.8	11978.3	784.0	735.9	851.0	932.6	1002.6	970.5	883.1	833.5
16459.2	75°	13378.6	8502.8	626.6	626.6	725.7	826.2	903.5	883.1	802.9	767.9
6910.1	77.5°	5639.4	3567.3	491.1	520.2	603.3	709.7	805.8	813.1	743.2	786.9
1827.3	80°	1499.5	983.6	374.5	409.5	473.6	585.8	700.9	698.0	622.2	581.4
679.1	82.5°	571.2	387.6	266.7	288.5	342.4	448.8	555.2	572.7	496.9	429.9
266.7	85°	220.0	166.1	164.7	173.4	199.6	297.3	419.7	434.2	374.5	317.7
74.3	87.5°	56.8	49.5	61.2	58.3	91.8	158.8	240.4	249.2	228.8	132.6
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>
4026.3
3841.2
3560.0
3303.5
3149.0
3105.3
3140.3
3189.8
3189.8
3117.0
2981.5
2803.7
2598.2
2370.9
2171.2
2080.9
1948.3
1767.6
1619.0
1519.9
1447.0
1404.8
1299.8
1250.3
1190.5
1132.3
1063.8
990.9
<i>918.0</i>
833.5
757.7
714.0
540.6
429.9
327.9
189.4
0.0

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