

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: P944405

Luminaire Tested: **GALN-SB9B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944405
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-SB9B-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45664 lumens
Efficiency: N/A
Efficacy: 138.6 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

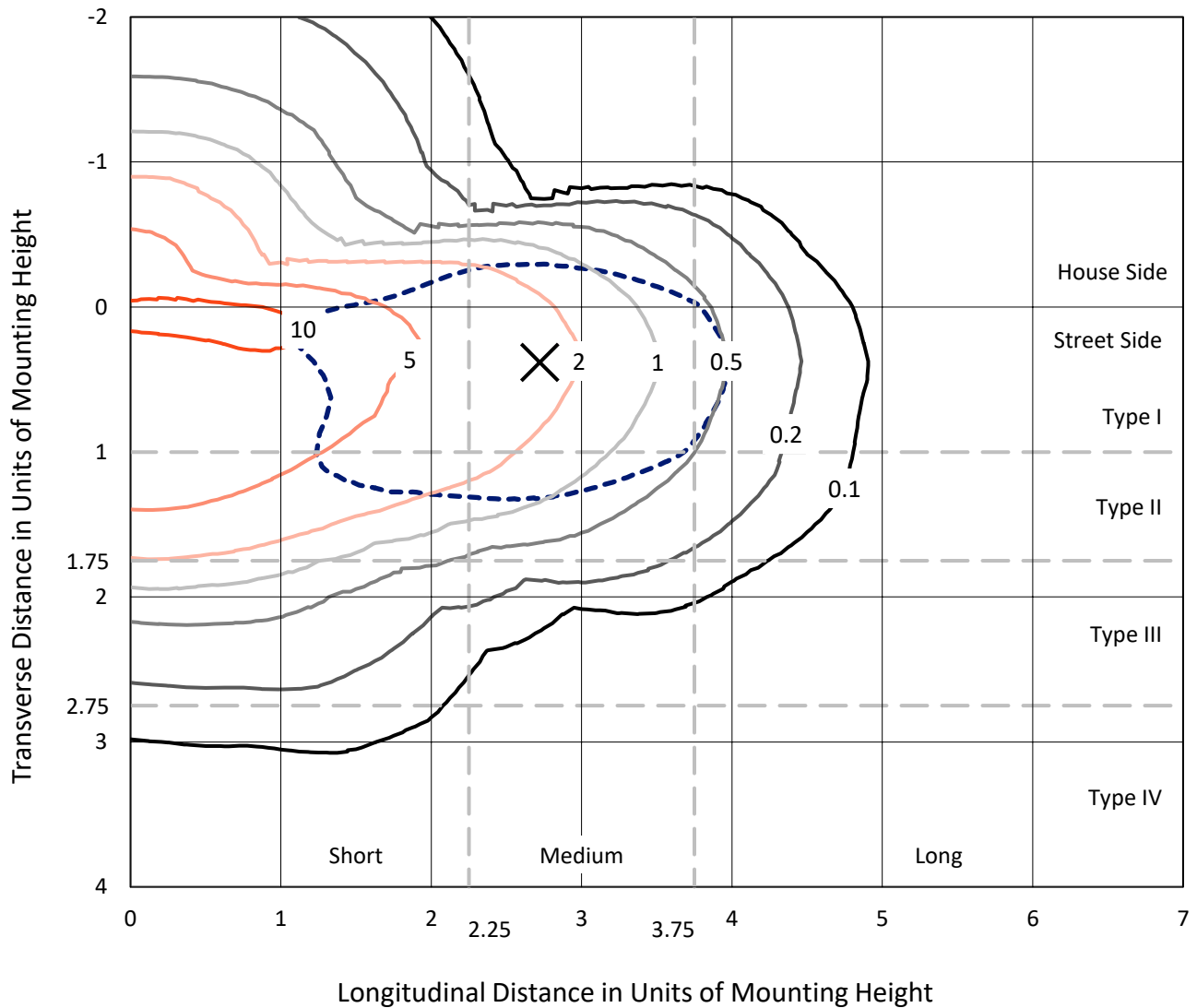
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

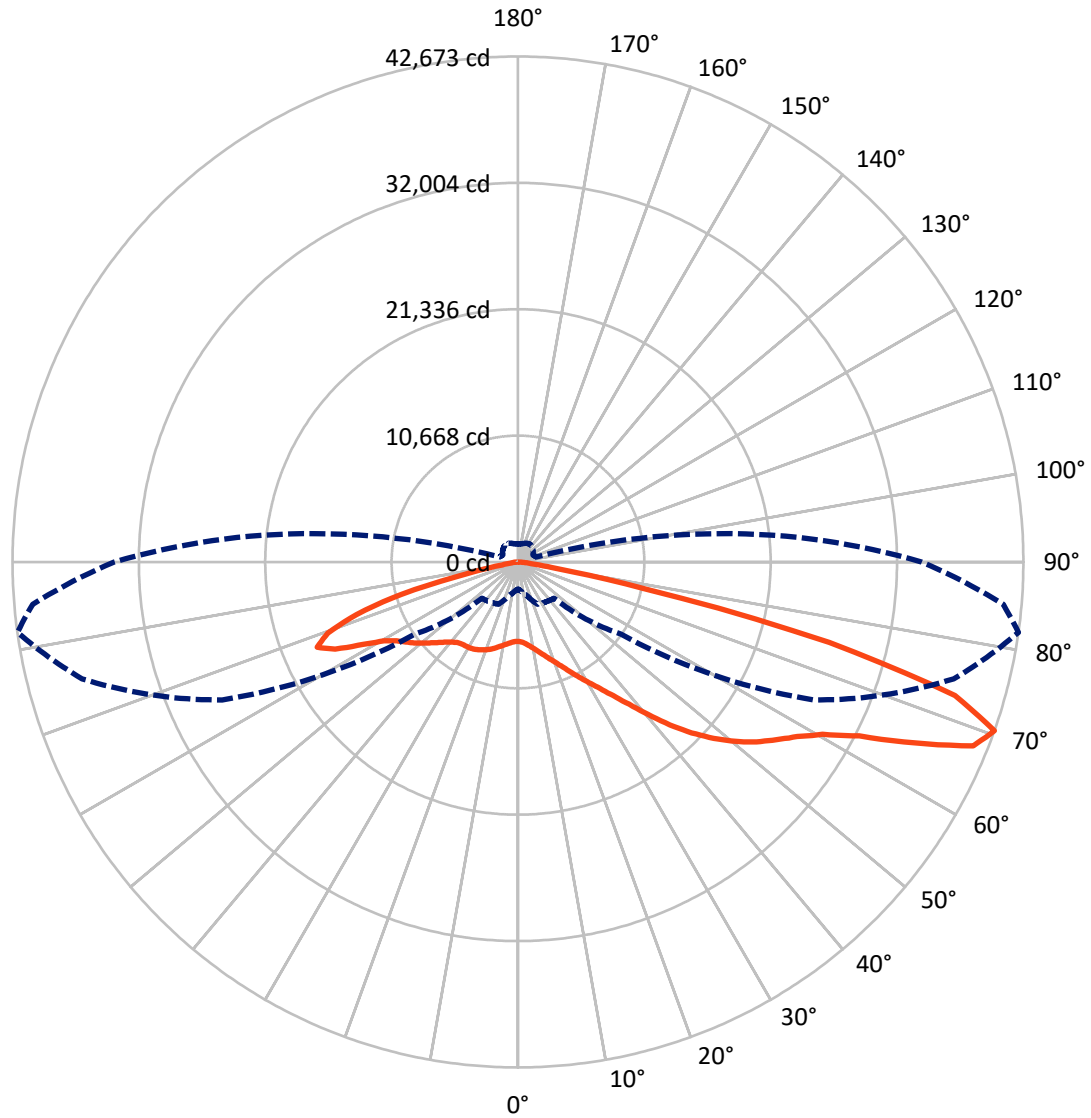
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	11257.3	0.0	11257.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	34406.7	0.0	34406.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	45664.0	0.0	45664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.1	1.4
10°-20°	1816.1	4.0
20°-30°	3038.2	6.7
30°-40°	4746.4	10.4
40°-50°	7559.2	16.6
50°-60°	10519.6	23.0
60°-70°	11003.9	24.1
70°-80°	5751.3	12.6
80°-90°	597.2	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°	45664.0	100.0
0°-180°	45664.0	100.0

Coefficient of Utilization



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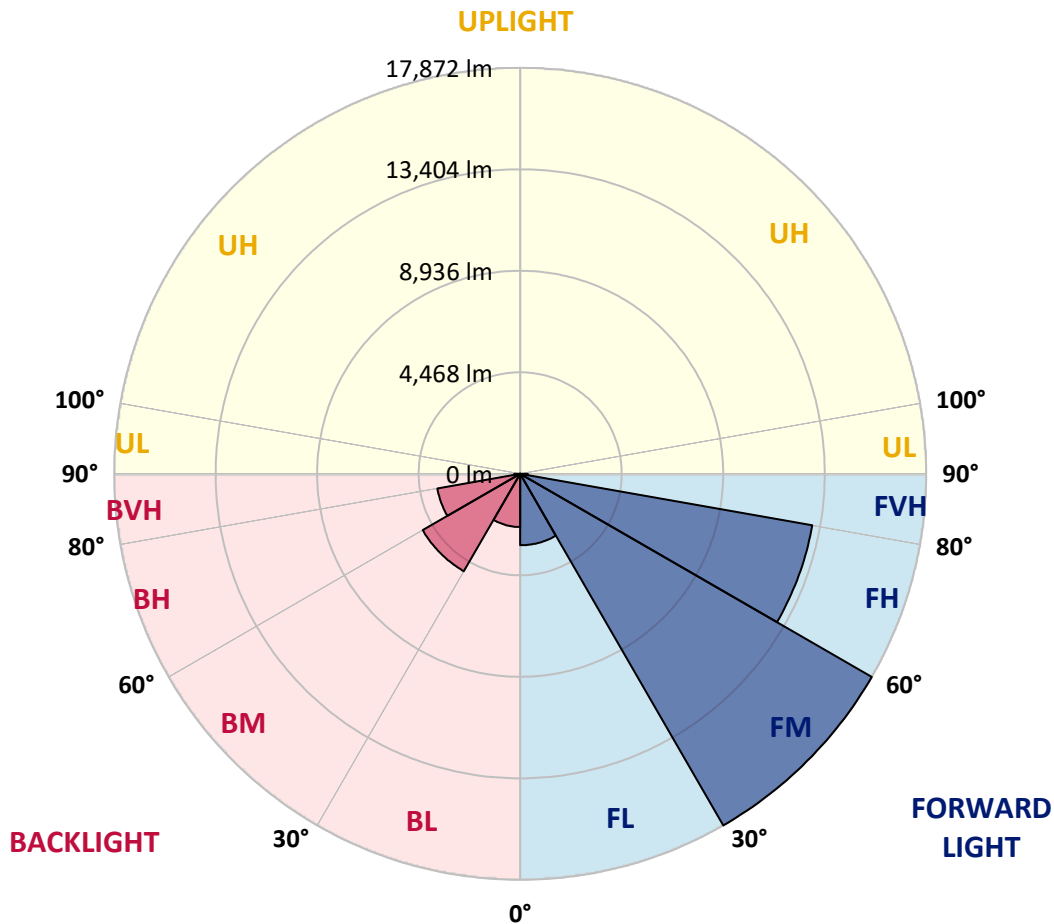
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3144.5	6.9			
FM (30°-60°)	17872.4	39.1			
FH (60°-80°)	13055.5	28.6			G5
FVH (80°-90°)	334.3	0.7			G3/500
BL (0°-30°)	2341.9	5.1	B3/2500		
BM (30°-60°)	4952.8	10.8	B3/5000		
BH (60°-80°)	3699.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	262.9	0.6			G3/500
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°	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9
2.5°	6854.8	6893.6	6881.5	6869.4	6869.4	6852.4	6850.0	6825.8	6806.4	6774.9
5°	6942.1	6983.3	6978.4	6988.1	7019.6	7026.9	7034.1	7019.6	6980.8	6942.1
7.5°	6864.5	6910.6	6925.1	6983.3	7080.2	7167.4	7232.8	7259.5	7223.1	7167.4
10°	6602.8	6653.7	6704.6	6842.7	7014.8	7220.7	7395.2	7499.4	7492.1	7438.8
12.5°	6072.2	6125.5	6234.5	6503.5	6818.5	7181.9	7506.6	7724.7	7799.8	7761.1
15°	5648.2	5694.2	5776.6	6052.8	6462.3	7014.8	7547.8	7971.9	8163.3	8141.5
17.5°	5636.0	5655.4	5706.3	5837.2	6152.1	6753.1	7504.2	8214.2	8580.1	8577.6
20°	5849.3	5856.5	5885.6	5912.3	6091.6	6554.4	7392.8	8415.3	9047.7	9047.7
22.5°	6144.9	6140.0	6169.1	6144.9	6232.1	6537.4	7322.5	8592.2	9568.7	9607.4
25°	6588.3	6564.1	6556.8	6501.1	6518.0	6694.9	7400.0	8793.3	10186.5	10266.5
27.5°	7179.5	7140.8	7114.1	6985.7	6942.1	7019.6	7637.5	9035.6	10874.7	11012.8
30°	7950.1	7879.8	7841.0	7618.1	7460.6	7472.7	7996.1	9357.9	11594.3	11817.3
32.5°	9001.7	8892.6	8788.4	8422.6	8134.2	8039.7	8458.9	9803.7	12374.6	12730.8
35°	10179.3	10092.0	9980.6	9416.0	8972.6	8754.5	9084.1	10426.4	13288.1	13852.6
37.5°	11313.3	11238.1	11291.5	10530.6	9958.8	9641.4	9903.0	11262.4	14414.8	15248.3
40°	12486.0	12427.9	12435.1	11708.2	11041.9	10685.7	10896.5	12311.6	15706.3	16908.1
42.5°	13760.6	13716.9	13571.6	12927.0	12178.3	11846.3	12040.2	13523.1	17092.3	18798.1
45°	15187.7	15161.1	15025.4	14286.4	13428.6	13055.4	13317.1	14860.6	18485.5	20576.6
47.5°	16421.1	16442.9	16425.9	15803.2	14913.9	14366.3	14678.9	16256.3	19781.9	22248.5
50°	17014.7	17128.6	17295.8	17102.0	16549.5	15992.2	16052.8	17603.5	21017.6	23816.3
52.5°	16704.6	16920.2	17375.8	17685.9	17899.1	17782.8	17620.5	18941.1	22180.7	25231.3
55°	15548.8	15851.7	16607.6	17356.4	18444.3	19290.0	19503.2	20424.0	23314.7	26476.8
57.5°	13443.1	13935.0	14613.5	16127.9	17959.7	20019.3	21698.5	22481.1	24516.5	27807.0
60°	9832.8	10491.8	11335.1	13588.5	16263.6	19629.2	23566.7	25640.8	26224.8	29529.8
62.5°	6292.7	6699.8	7475.1	9597.7	12672.6	17630.2	24138.5	29590.4	29120.3	32355.1
65°	4308.2	4569.9	5279.8	6472.0	8192.4	13123.3	22607.1	32551.4	33719.3	36832.9
67.5°	3130.6	3329.3	3935.0	4979.4	5338.0	7765.9	17543.0	32415.7	38189.8	41446.4
70°	2282.5	2423.1	2931.9	3935.0	4107.1	4320.3	10627.5	27555.0	38092.9	42672.5
72.5°	1691.3	1788.2	2129.9	3053.1	3324.4	2917.4	5260.5	20026.6	32733.1	38596.9
75°	1223.6	1296.3	1548.3	2335.8	2660.5	2221.9	2624.2	11703.4	22832.5	27150.4
77.5°	935.3	991.0	1155.8	1710.7	2129.9	1667.1	1628.3	5384.0	10826.2	10879.5
80°	751.1	787.5	877.1	1204.3	1633.1	1247.9	1061.3	2173.5	3421.4	2895.6
82.5°	552.5	613.0	741.5	845.6	1167.9	860.2	647.0	1097.6	1301.2	1119.5
85°	315.0	356.2	448.3	605.8	746.3	525.8	370.7	487.0	605.8	496.7
87.5°	111.5	145.4	157.5	237.5	324.7	218.1	143.0	140.5	198.7	147.8
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°
6694.9	0°	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9	6694.9
6767.6	2.5°	6743.4	6731.3	6682.8	6617.4	6549.5	6484.1	6462.3	6416.3	6384.8	6367.8
6925.1	5°	6879.1	6840.3	6726.4	6581.0	6428.4	6263.6	6147.3	6040.7	5963.1	5890.5
7140.8	7.5°	7072.9	7005.1	6808.8	6554.4	6283.0	6009.2	5805.7	5650.6	5546.4	5478.5
7392.8	10°	7298.3	7194.1	6893.6	6513.2	6094.0	5701.5	5461.6	5328.3	5262.9	5226.5
7681.1	12.5°	7557.5	7409.7	6980.8	6418.7	5805.7	5357.4	5192.6	5153.8	5156.3	5158.7
8044.6	15°	7877.4	7671.4	7051.1	6212.7	5430.1	5093.3	5064.2	5127.2	5192.6	5224.1
8456.5	17.5°	8238.4	7947.6	7063.2	5873.5	5061.8	4923.7	5015.7	5151.4	5250.8	5294.4
8916.9	20°	8626.1	8228.7	6976.0	5393.7	4758.9	4785.5	4950.3	5124.8	5233.8	5289.5
9442.7	22.5°	9069.5	8529.2	6767.6	4889.7	4511.7	4635.3	4829.2	4998.8	5112.7	5168.4
10060.5	25°	9575.9	8866.0	6440.5	4465.7	4298.5	4465.7	4659.5	4800.1	4892.2	4943.0
10751.1	27.5°	10138.1	9217.3	6004.3	4128.9	4111.9	4291.2	4451.2	4560.2	4608.7	4647.4
11485.3	30°	10702.7	9537.2	5476.1	3874.5	3949.6	4119.2	4233.1	4281.5	4296.1	4303.4
12304.3	32.5°	11313.3	9813.4	4921.2	3663.7	3794.5	3952.0	4019.9	4041.7	3973.8	3927.8
13297.8	35°	12052.3	10109.0	4378.5	3496.5	3641.9	3777.5	3799.4	3780.0	3700.0	3605.5
14543.2	37.5°	12965.8	10477.3	3944.7	3377.7	3498.9	3588.6	3561.9	3557.1	3564.3	3452.9
16040.7	40°	14085.2	10957.1	3627.3	3285.7	3382.6	3402.0	3326.9	3368.1	3404.4	3234.8
17683.5	42.5°	15328.3	11536.2	3426.2	3222.7	3285.7	3239.6	3123.3	3169.4	3164.5	2941.6
19333.6	45°	16595.5	12166.2	3355.9	3176.6	3196.0	3103.9	2975.5	2987.6	2885.9	2684.7
20915.8	47.5°	17855.5	12842.2	3399.6	3137.9	3084.6	2980.4	2881.0	2827.7	2677.5	2527.3
22432.7	50°	19091.3	13552.2	3559.5	3060.3	2931.9	2871.3	2798.6	2704.1	2544.2	2415.8
23867.1	52.5°	20237.4	14267.0	3738.8	2931.9	2740.5	2776.8	2730.8	2621.8	2464.3	2333.4
25224.0	55°	21322.9	14981.8	3809.0	2755.0	2561.2	2694.4	2667.8	2466.7	2277.7	2171.1
26644.0	57.5°	22505.4	15842.0	3731.5	2529.7	2415.8	2599.9	2498.2	2275.3	2166.2	2086.3
28492.8	60°	24143.4	17191.6	3564.3	2251.0	2277.7	2459.4	2284.9	2192.9	2074.1	1984.5
31264.7	62.5°	26864.5	19709.2	3295.4	1974.8	2115.3	2251.0	2183.2	2091.1	1969.9	1882.7
36004.2	65°	30886.7	23208.1	2788.9	1759.1	1933.6	2047.5	2074.1	1982.1	1856.1	1764.0
40157.4	67.5°	34279.0	25403.4	2110.5	1579.8	1747.0	1882.7	1957.8	1868.2	1734.9	1645.3
41129.0	70°	34092.4	23809.0	1611.3	1403.0	1582.3	1720.4	1817.3	1747.0	1604.1	1519.3
37358.7	72.5°	30281.0	19917.5	1303.6	1223.6	1415.1	1550.8	1667.1	1613.8	1468.4	1386.0
27368.5	75°	22246.1	14138.6	1041.9	1041.9	1206.7	1373.9	1502.3	1468.4	1335.1	1277.0
11490.1	77.5°	9377.2	5931.6	816.6	865.0	1003.1	1180.0	1340.0	1352.1	1235.8	1308.5
3038.5	80°	2493.3	1635.6	622.7	680.9	787.5	974.1	1165.5	1160.6	1034.6	966.8
1129.1	82.5°	949.8	644.5	443.4	479.8	569.4	746.3	923.2	952.3	826.3	714.8
443.4	85°	365.9	276.2	273.8	288.3	332.0	494.3	697.8	722.1	622.7	528.2
123.6	87.5°	94.5	82.4	101.8	96.9	152.7	264.1	399.8	414.3	380.4	220.5
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>
6694.9
6387.2
5919.5
5493.1
5236.2
5163.5
5221.7
5304.1
5304.1
5182.9
4957.6
4662.0
4320.3
3942.3
3610.4
3460.1
3239.6
2939.2
2692.0
2527.3
2406.1
2335.8
2161.4
2079.0
1979.6
1882.7
1768.8
1647.7
1526.5
1386.0
1260.0
1187.3
899.0
714.8
545.2
315.0
0.0

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