

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: P944399

Luminaire Tested: **GALN-SB9B-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44081 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

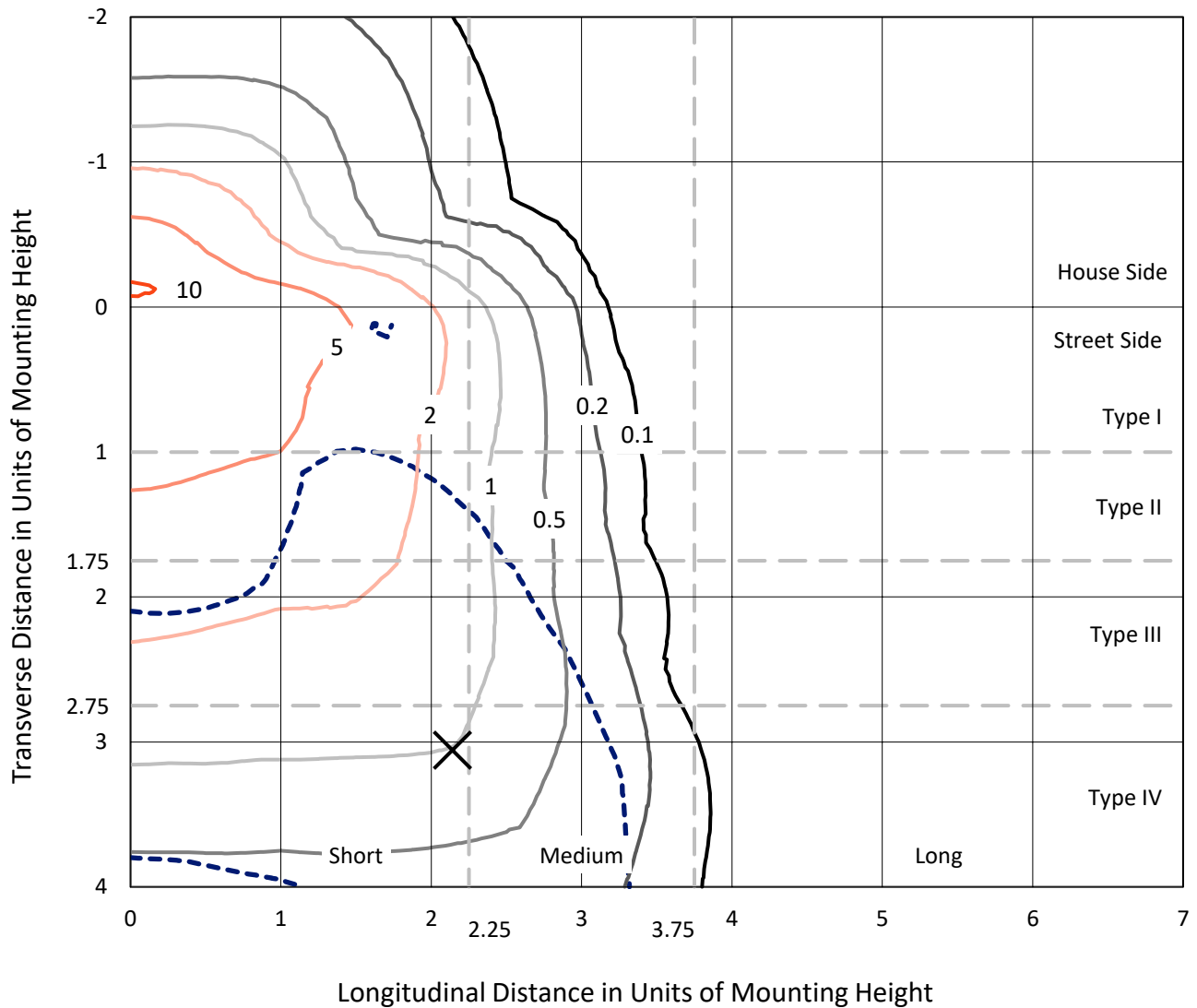
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

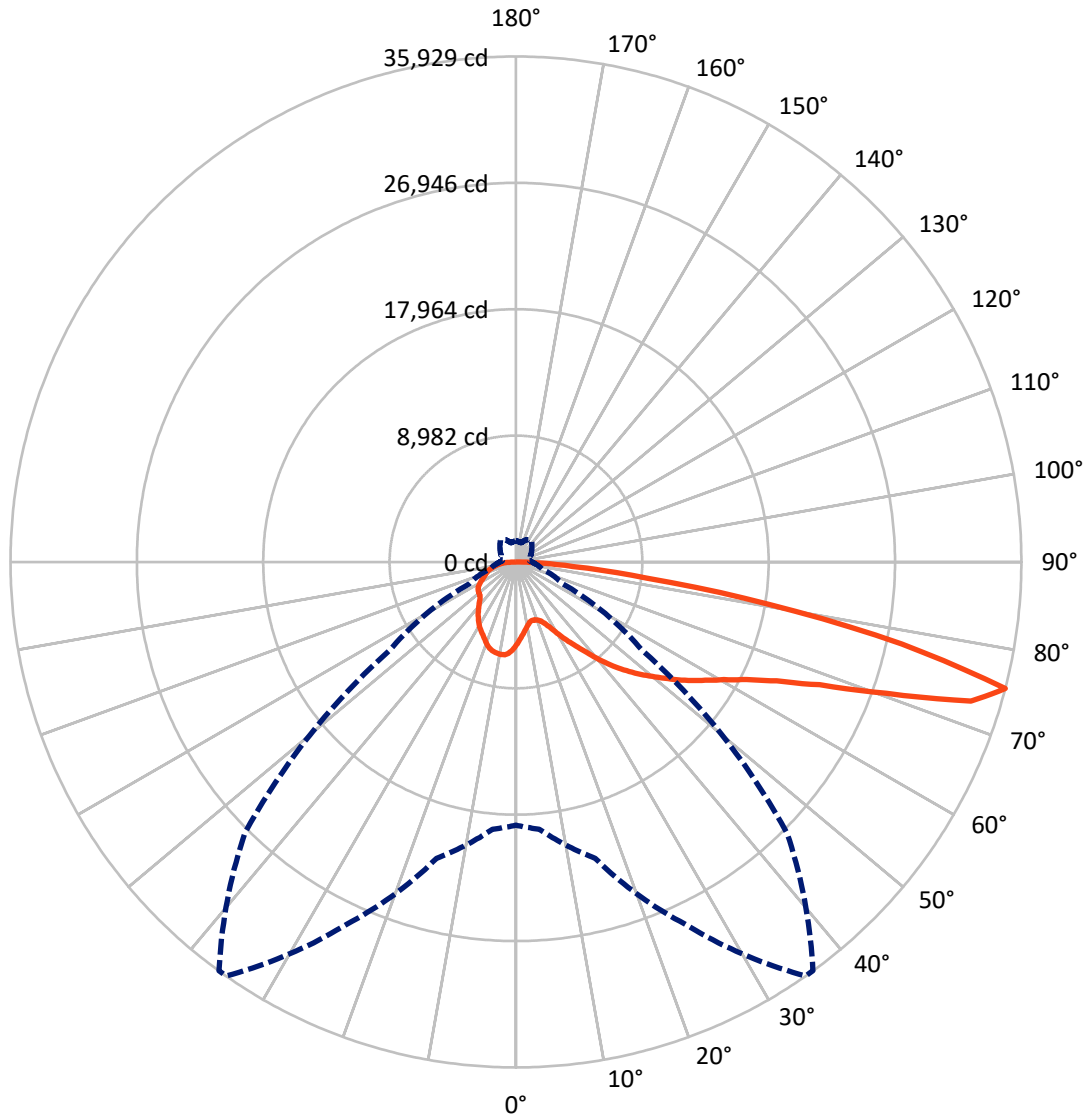
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10490.2	0.0	10490.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	33590.8	0.0	33590.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	44081.0	0.0	44081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.2	1.3
10°-20°	1604.2	3.6
20°-30°	2693.9	6.1
30°-40°	4186.7	9.5
40°-50°	6214.1	14.1
50°-60°	8579.0	19.5
60°-70°	10408.2	23.6
70°-80°	8601.6	19.5
80°-90°	1237.2	2.8
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°	44081.0	100.0
0°-180°	44081.0	100.0

Coefficient of Utilization



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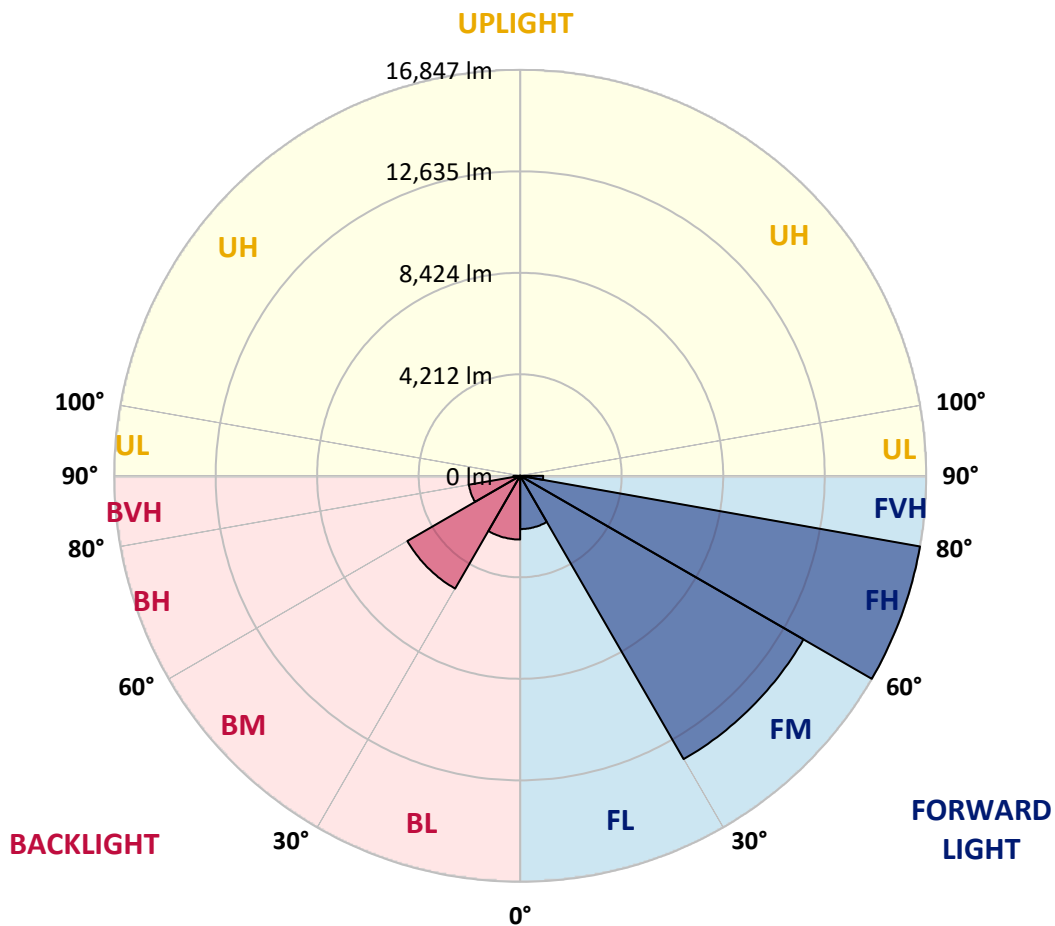
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.6	5.0			
FM (30°-60°)	13574.6	30.8			
FH (60°-80°)	16847.1	38.2			G5
FVH (80°-90°)	958.6	2.2			G5
BL (0°-30°)	2643.7	6.0	B4/5000		
BM (30°-60°)	5405.2	12.3	B4/8500		
BH (60°-80°)	2162.7	4.9	B3/2500		G3/2500
BVH (80°-90°)	278.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1
2.5°	5416.6	5449.9	5464.2	5457.1	5492.8	5488.0	5538.1	5600.0	5685.8	5769.2
5°	4999.5	5035.3	5066.3	5094.9	5164.0	5185.4	5264.0	5383.2	5540.5	5700.1
7.5°	4611.1	4642.1	4689.7	4742.2	4858.9	4880.4	5011.4	5197.3	5416.6	5650.1
10°	4294.2	4325.1	4375.2	4434.8	4580.1	4606.3	4773.1	5021.0	5306.9	5602.4
12.5°	4158.3	4167.9	4196.5	4256.0	4382.3	4399.0	4582.5	4866.1	5199.7	5566.7
15°	4151.2	4170.2	4172.6	4203.6	4308.5	4315.6	4484.8	4766.0	5133.0	5559.5
17.5°	4222.7	4237.0	4215.5	4234.6	4322.8	4334.7	4468.1	4718.3	5111.5	5590.5
20°	4413.3	4425.2	4360.9	4334.7	4399.0	4408.5	4539.6	4749.3	5133.0	5654.9
22.5°	4818.4	4825.6	4668.3	4561.1	4565.8	4570.6	4685.0	4875.6	5216.4	5771.6
25°	5449.9	5445.2	5194.9	4987.6	4868.5	4842.3	4918.5	5080.6	5357.0	5926.5
27.5°	6188.6	6152.9	5902.7	5592.9	5333.2	5295.0	5278.3	5347.4	5557.2	6131.5
30°	7022.7	6989.3	6720.1	6314.9	5955.1	5893.2	5735.9	5700.1	5855.0	6410.3
32.5°	7937.8	7916.3	7594.6	7103.7	6622.4	6550.9	6286.4	6191.0	6312.6	6832.1
35°	8705.1	8686.0	8419.1	7913.9	7325.3	7237.2	6967.9	6860.7	6922.6	7373.0
37.5°	9398.5	9389.0	9160.2	8762.3	8154.6	8047.4	7744.7	7709.0	7697.1	8085.5
40°	10042.0	10018.1	9779.8	9570.1	9119.7	9022.0	8755.1	8724.2	8633.6	8962.5
42.5°	10754.5	10692.5	10347.0	10249.3	10127.7	10046.7	9887.1	9891.8	9691.7	9951.4
45°	11335.9	11300.2	10945.1	10887.9	11019.0	10985.6	11123.8	11159.6	10771.2	10988.0
47.5°	11960.3	11926.9	11626.6	11586.1	11941.2	11950.7	12439.3	12451.2	11824.4	12065.1
50°	12730.0	12682.3	12384.4	12434.5	12832.4	12868.2	13761.8	13680.8	12794.3	13158.9
52.5°	13237.6	13266.2	13201.8	13282.8	13826.2	13859.5	15062.9	14855.6	13754.7	14238.4
55°	13611.7	13668.9	13869.1	14054.9	14874.7	14908.0	16290.2	15973.2	14550.6	15239.3
57.5°	14093.1	14012.0	14386.2	14748.4	15870.8	15958.9	17484.1	17050.4	15256.0	16101.9
60°	14784.1	14726.9	15017.7	15553.8	16986.0	17126.6	18747.0	18020.2	15773.1	16785.8
62.5°	16185.3	16042.3	16087.6	16561.8	18392.0	18577.9	20172.1	18866.2	16030.4	17052.7
65°	18280.0	18034.5	17805.8	18134.6	20372.3	20555.7	21780.6	19531.1	15935.1	16535.6
67.5°	20918.0	20674.9	20393.7	20703.5	23289.0	23434.4	23765.6	19905.2	15184.5	14543.4
70°	23093.6	23003.1	23339.1	24614.0	27947.8	27952.6	26310.7	19595.4	13127.9	10311.2
72.5°	22805.3	22750.5	24521.1	28462.5	33819.5	33693.2	28719.9	17250.5	8843.3	4651.6
75°	18708.9	19064.0	21806.8	28393.4	35928.5	35911.8	27244.8	10966.6	3657.9	1927.8
77.5°	10032.4	10594.8	14157.4	20963.2	28047.9	28469.7	19154.5	3836.6	1570.4	1234.4
80°	3271.9	3762.8	5642.9	10673.5	18225.2	18146.5	8209.4	1506.1	1074.7	874.6
82.5°	1389.3	1446.5	2521.2	5040.0	9353.3	9207.9	2614.1	865.0	755.4	598.1
85°	543.3	607.7	1112.9	2330.6	4051.1	3962.9	943.7	428.9	483.7	390.8
87.5°	178.7	216.9	398.0	798.3	1260.6	1215.3	231.2	147.7	209.7	178.7
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°
5874.1	0°	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1	5874.1
5890.8	2.5°	5924.1	5962.3	6007.5	6074.3	6131.5	6179.1	6229.2	6260.1	6272.1	6307.8
5900.3	5°	5967.0	6050.4	6162.4	6272.1	6379.3	6443.6	6500.8	6529.4	6555.6	6574.7
5926.5	7.5°	6038.5	6145.8	6322.1	6465.1	6555.6	6608.1	6646.2	6636.7	6646.2	6650.9
5955.1	10°	6100.5	6250.6	6460.3	6596.1	6665.2	6667.6	6658.1	6624.7	6608.1	6610.4
5998.0	12.5°	6174.3	6341.2	6567.5	6681.9	6701.0	6648.6	6608.1	6550.9	6529.4	6519.9
6062.3	15°	6274.4	6465.1	6684.3	6727.2	6679.5	6612.8	6543.7	6450.8	6403.1	6365.0
6172.0	17.5°	6396.0	6605.7	6774.9	6743.9	6641.4	6531.8	6419.8	6279.2	6181.5	6141.0
6322.1	20°	6565.2	6753.4	6844.0	6708.1	6553.2	6386.4	6195.8	6024.2	5933.7	5893.2
6512.7	22.5°	6770.1	6951.2	6910.7	6646.2	6426.9	6160.1	5921.8	5795.5	5750.2	5721.6
6758.2	25°	7015.5	7170.4	6958.4	6555.6	6219.6	5859.8	5676.3	5635.8	5614.3	5592.9
7058.4	27.5°	7334.9	7418.3	6994.1	6422.2	5895.5	5540.5	5473.7	5480.9	5473.7	5438.0
7475.5	30°	7756.7	7740.0	7027.5	6205.3	5523.8	5252.1	5256.9	5287.9	5292.6	5268.8
8056.9	32.5°	8311.9	8142.7	7044.1	5924.1	5168.7	4999.5	5004.3	5037.7	5061.5	5021.0
8817.1	35°	8983.9	8612.2	7017.9	5571.5	4894.7	4758.8	4723.1	4732.6	4739.8	4701.7
9739.3	37.5°	9767.9	9138.8	6901.2	5180.6	4668.3	4522.9	4446.7	4382.3	4344.2	4308.5
10783.1	40°	10628.2	9713.1	6686.7	4799.4	4415.7	4272.7	4158.3	4036.8	3908.1	3860.5
11888.8	42.5°	11528.9	10304.1	6426.9	4434.8	4125.0	4008.2	3886.7	3710.3	3517.3	3419.6
13037.4	45°	12463.1	10909.4	6172.0	4074.9	3827.1	3777.1	3636.5	3424.4	3214.7	3090.7
14188.4	47.5°	13378.2	11481.3	5797.8	3712.7	3548.3	3603.1	3493.5	3298.1	3064.5	2869.1
15329.8	50°	14252.7	12017.5	5185.4	3345.7	3321.9	3550.7	3445.8	3164.6	2897.7	2647.5
16449.8	52.5°	15120.1	12451.2	4401.4	3012.1	3200.4	3536.4	3383.9	3074.1	2747.6	2485.5
17503.1	55°	15856.5	12675.2	3646.0	2726.2	3024.0	3414.8	3310.0	2966.8	2535.5	2256.7
18225.2	57.5°	16275.9	12494.1	3016.9	2445.0	2781.0	3214.7	3183.7	2738.1	2282.9	2068.4
18365.8	60°	16094.8	11760.1	2502.1	2199.5	2549.8	2997.8	2964.5	2511.7	2089.9	1887.3
17612.7	62.5°	15096.3	10361.3	2094.7	1985.0	2340.1	2776.2	2745.2	2337.7	1942.1	1746.7
15613.4	65°	13085.0	8428.7	1777.7	1806.3	2128.0	2509.3	2554.6	2192.4	1825.4	1634.7
12079.4	67.5°	9980.0	6105.2	1529.9	1651.4	1920.7	2247.2	2378.2	2087.5	1727.7	1546.6
6989.3	70°	5688.2	3467.3	1320.2	1501.3	1737.2	2004.1	2242.4	2004.1	1622.8	1472.7
2618.9	72.5°	2156.6	1591.8	1141.5	1351.2	1560.9	1799.2	2092.3	1873.0	1501.3	1389.3
1353.5	75°	1151.0	969.9	960.3	1174.8	1358.3	1599.0	1904.0	1744.4	1410.7	1467.9
936.5	77.5°	784.0	686.3	803.1	1005.6	1136.7	1377.4	1703.8	1548.9	1222.5	1217.7
648.2	80°	543.3	486.1	652.9	810.2	879.3	1158.1	1487.0	1329.7	996.1	929.4
400.3	82.5°	326.5	316.9	488.5	605.3	622.0	893.6	1232.0	1115.2	815.0	710.1
238.3	85°	178.7	188.3	312.2	355.1	362.2	624.3	965.1	862.6	626.7	526.6
85.8	87.5°	50.0	64.3	114.4	140.6	174.0	324.1	574.3	512.3	314.6	219.2
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>
5874.1
6305.4
6579.5
6658.1
6615.2
6515.1
6376.9
6143.4
5888.4
5726.3
5592.9
5445.2
5280.7
5040.0
4727.9
4332.3
3881.9
3431.5
3081.2
2847.7
2626.1
2456.9
2232.9
2039.8
1858.7
1715.8
1603.8
1518.0
1453.6
1370.2
<i>1515.6</i>
1122.4
888.9
714.9
531.4
219.2
0.0

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