

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: P943377

Luminaire Tested: **GALN-SB7D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62972 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

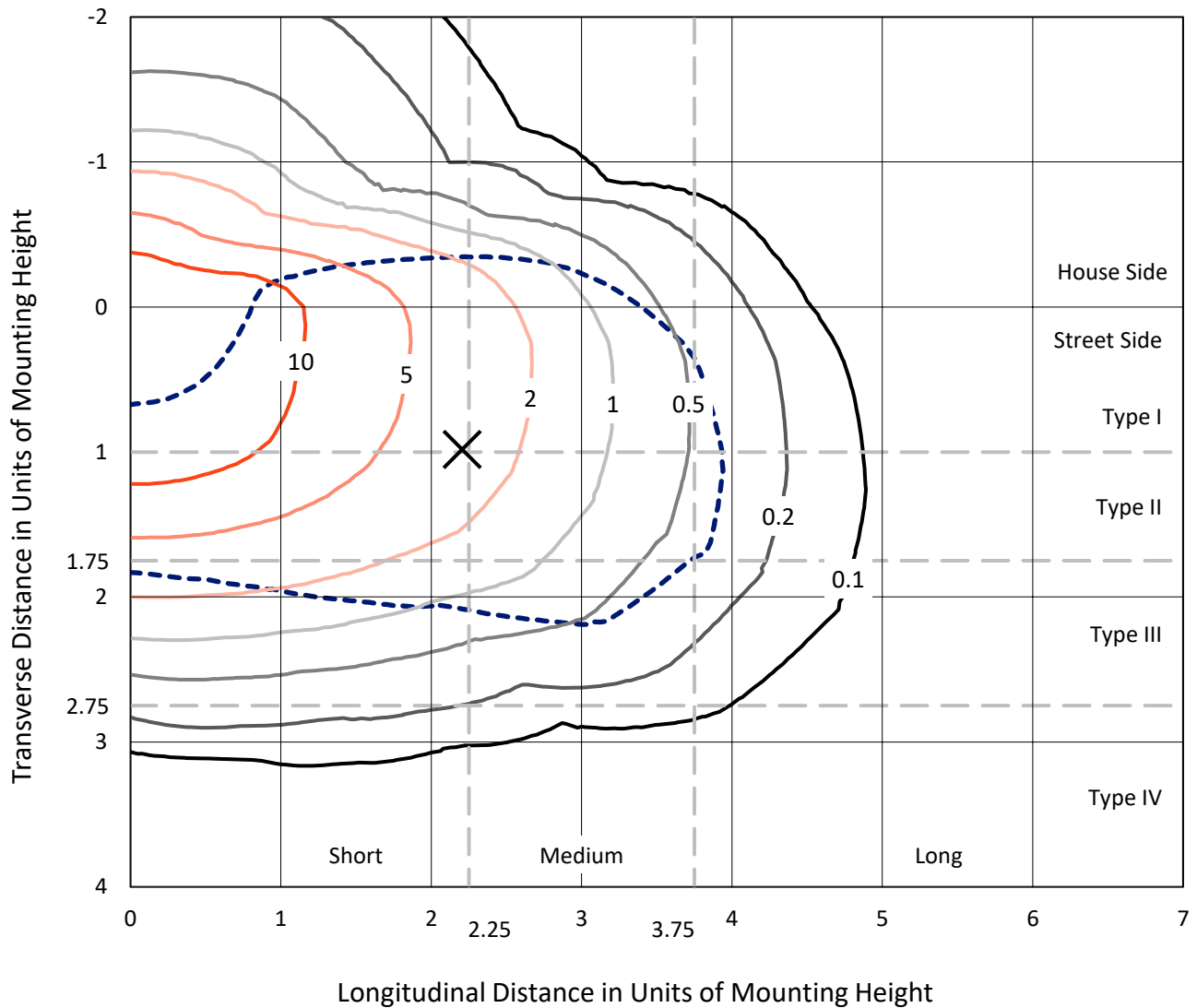
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

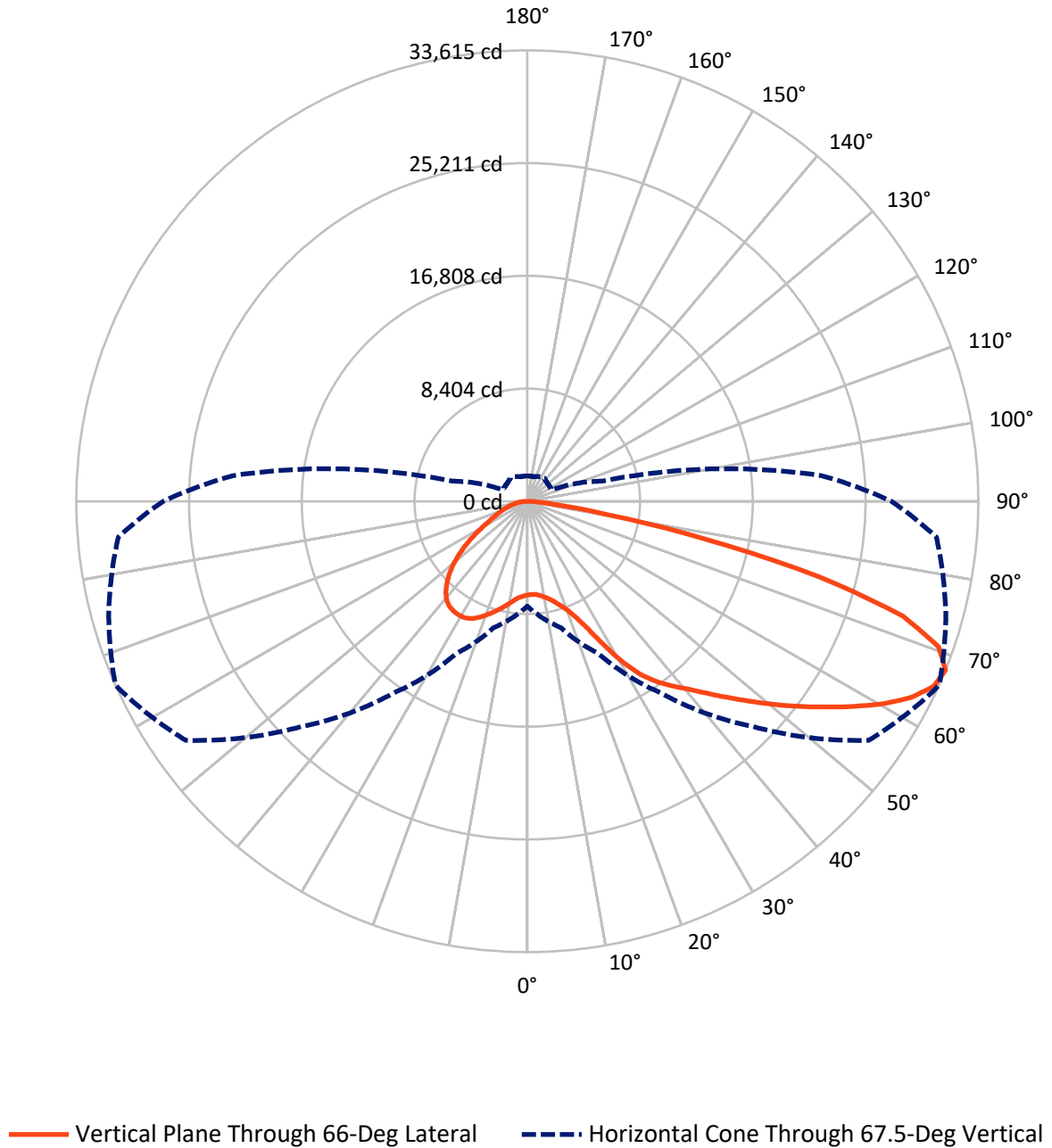
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15657.8	0.0	15657.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	47314.2	0.0	47314.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	62972.0	0.0	62972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.5	1.1
10°-20°	2287.9	3.6
20°-30°	4409.7	7.0
30°-40°	7731.9	12.3
40°-50°	11494.7	18.3
50°-60°	14570.7	23.1
60°-70°	14257.1	22.6
70°-80°	6800.8	10.8
80°-90°	726.8	1.2
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°	62972.0	100.0
0°-180°	62972.0	100.0

Coefficient of Utilization



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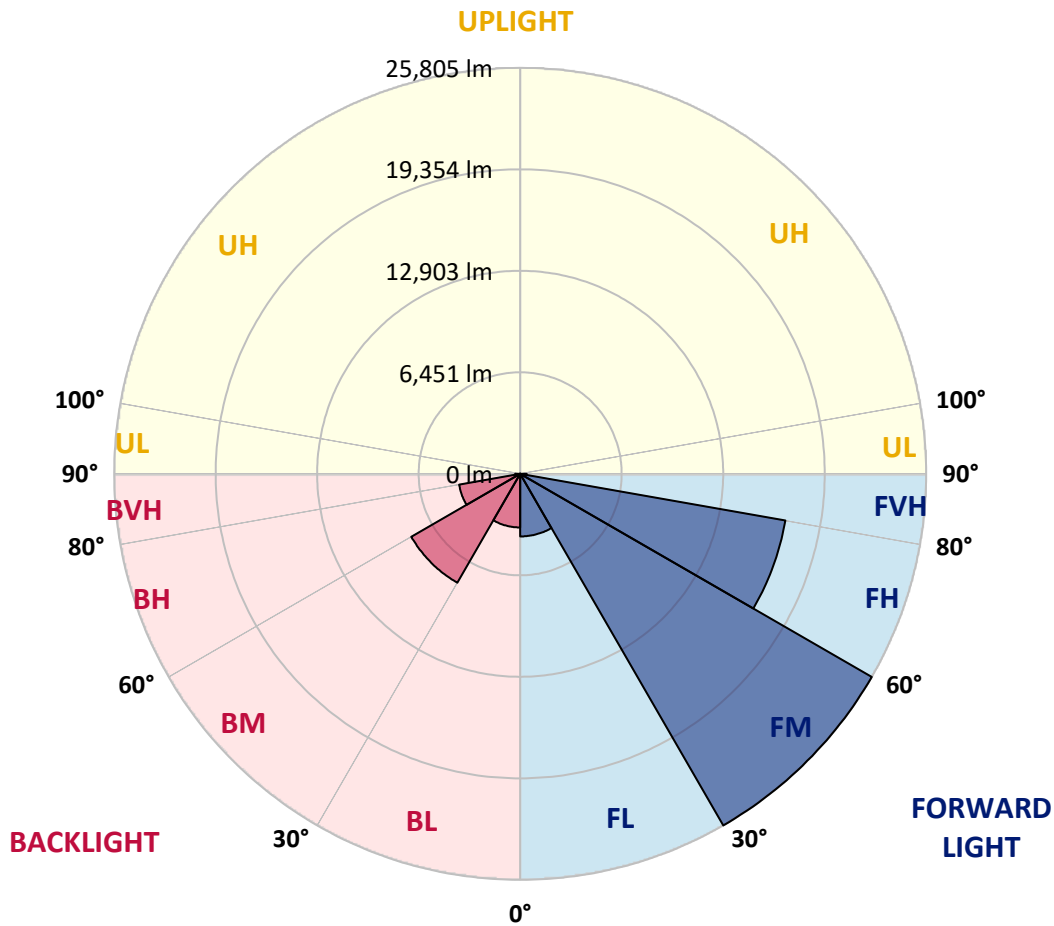
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3979.2	6.3			
FM (30°-60°)	25805.4	41.0			
FH (60°-80°)	17117.5	27.2			G5
FVH (80°-90°)	412.1	0.7			G3/500
BL (0°-30°)	3410.8	5.4	B4/5000		
BM (30°-60°)	7991.9	12.7	B4/8500		
BH (60°-80°)	3940.3	6.3	B4/5000		G4/5000
BVH (80°-90°)	314.7	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4
2.5°	6911.6	6951.3	6941.4	6924.9	6921.6	6928.2	6938.1	6948.0	6944.7	6961.3
5°	6891.8	6931.5	6928.2	6928.2	6941.4	6967.9	6984.4	7001.0	6984.4	7004.3
7.5°	6905.0	6934.8	6948.0	6961.3	6994.4	7044.0	7083.7	7120.1	7100.2	7123.4
10°	7073.8	7096.9	7110.2	7110.2	7133.3	7189.6	7229.3	7295.4	7278.9	7315.3
12.5°	7381.5	7404.6	7404.6	7391.4	7407.9	7444.3	7457.6	7530.3	7500.6	7560.1
15°	7758.6	7805.0	7768.6	7745.4	7752.0	7788.4	7785.1	7841.4	7811.6	7861.2
17.5°	8175.5	8235.1	8175.5	8172.2	8159.0	8198.7	8202.0	8251.6	8198.7	8235.1
20°	8668.5	8751.2	8701.6	8718.1	8688.3	8704.9	8721.4	8794.2	8711.5	8738.0
22.5°	9363.3	9462.6	9409.6	9472.5	9452.6	9439.4	9436.1	9565.1	9436.1	9446.0
25°	10375.7	10494.8	10402.2	10488.2	10488.2	10531.2	10580.9	10746.3	10531.2	10468.4
27.5°	11871.2	11990.3	11808.3	11861.3	11844.7	11950.6	11897.7	12307.9	12076.3	11973.8
30°	13671.1	13882.8	13538.7	13525.5	13509.0	13677.7	13753.8	14025.1	13790.2	13687.6
32.5°	15616.5	15838.2	15427.9	15308.8	15246.0	15348.5	15285.7	15504.0	15341.9	15183.1
35°	17674.5	17892.8	17502.4	17270.8	17019.4	16804.3	16579.3	16635.6	16483.4	16241.9
37.5°	19619.9	20020.3	19606.7	19358.5	18895.3	18475.1	17846.5	17585.1	17442.9	17221.2
40°	21601.8	21830.1	21515.7	21304.0	20801.1	20142.7	19136.9	18584.3	18392.4	18177.4
42.5°	23060.9	23279.2	23110.5	22964.9	22571.2	21806.9	20506.6	19815.1	19537.2	19295.7
45°	24218.9	24381.0	24275.1	24328.0	24159.3	23418.2	21926.0	21135.3	20847.4	20552.9
47.5°	24685.4	24857.4	25026.2	25340.5	25628.3	25082.4	23451.3	22564.6	22260.2	21959.1
50°	24632.4	24807.8	25297.5	25965.8	26859.1	26677.1	25059.2	24086.5	23805.3	23461.2
52.5°	24208.9	24407.4	25036.1	26147.8	27570.5	27871.5	26697.0	25658.1	25393.4	24983.1
55°	23097.2	23216.4	24159.3	25734.2	27739.2	28705.3	28301.7	27332.2	27067.5	26495.2
57.5°	21036.0	21208.0	22581.1	24619.2	27315.7	29271.1	29711.1	29092.4	28837.6	28013.8
60°	18346.1	18620.7	20192.3	22746.5	26237.1	29267.8	30991.5	30822.8	30611.0	29509.3
62.5°	15302.2	15619.8	17131.9	20099.7	24351.2	28437.3	31792.2	32272.0	32162.8	30889.0
65°	11752.1	11970.5	13475.9	16675.3	21416.5	26654.0	31884.9	33261.2	33281.1	31937.8
67.5°	7824.8	8453.4	9760.3	12513.1	17485.9	23739.1	31070.9	33423.3	33615.2	32298.4
70°	3818.1	4645.3	5925.7	8132.5	12513.1	19269.2	28943.5	32093.3	32520.1	31246.3
72.5°	1584.8	1852.8	2550.9	4013.3	7182.9	13002.7	24668.8	28486.9	29277.7	27686.3
75°	1068.7	1158.0	1459.1	2057.9	3272.2	6412.0	17790.3	21241.1	22514.9	20910.3
77.5°	823.8	880.1	1062.1	1439.2	1945.4	2425.2	9522.1	12800.9	13459.3	12460.1
80°	648.5	691.5	794.1	1048.8	1379.7	1297.0	3245.7	5800.0	6180.4	5184.6
82.5°	562.5	579.0	569.1	711.3	916.5	757.7	1065.4	2140.7	2362.3	1713.8
85°	407.0	453.3	473.1	440.0	486.4	383.8	436.7	757.7	833.8	744.4
87.5°	165.4	244.8	301.1	284.5	178.7	109.2	135.7	221.7	254.8	277.9
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°
6984.4	0°	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4	6984.4
6987.7	2.5°	6991.0	7014.2	7030.7	7050.6	7063.8	7083.7	7123.4	7146.5	7149.9	7166.4
7040.7	5°	7053.9	7087.0	7123.4	7176.3	7235.9	7285.5	7361.6	7414.5	7434.4	7450.9
7169.7	7.5°	7189.6	7235.9	7302.1	7394.7	7480.7	7546.9	7639.5	7702.4	7765.3	7788.4
7374.8	10°	7391.4	7457.6	7553.5	7679.2	7771.9	7857.9	7953.8	8006.8	8069.6	8096.1
7619.7	12.5°	7642.8	7712.3	7838.0	8013.4	8099.4	8159.0	8192.1	8178.8	8192.1	8215.2
7914.1	15°	7930.7	8006.8	8149.0	8337.6	8397.2	8344.3	8271.5	8205.3	8195.4	8202.0
8271.5	17.5°	8271.5	8327.7	8493.1	8652.0	8608.9	8390.6	8231.8	8125.9	8073.0	8056.4
8728.1	20°	8747.9	8747.9	8883.6	8982.8	8695.0	8324.4	8076.3	7904.2	7795.0	7748.7
9350.1	22.5°	9326.9	9274.0	9360.0	9290.5	8678.4	8139.1	7795.0	7497.3	7331.8	7265.7
10220.2	25°	10061.4	9998.5	9975.4	9545.3	8559.3	7844.7	7285.5	6924.9	6779.3	6742.9
11474.2	27.5°	11169.8	11011.0	10709.9	9684.2	8340.9	7381.5	6690.0	6355.8	6273.1	6276.4
13085.5	30°	12645.4	12327.8	11590.0	9707.4	7983.6	6726.4	6081.2	5843.0	5803.3	5819.8
14438.7	32.5°	14011.9	13710.8	12489.9	9601.5	7434.4	6084.5	5535.3	5376.5	5316.9	5336.8
15471.0	35°	15083.8	15001.1	13323.7	9452.6	6759.4	5482.3	5045.6	4909.9	4794.1	4767.7
16443.7	37.5°	16096.3	16063.2	13949.0	9244.2	6091.1	5055.5	4651.9	4473.2	4304.5	4211.8
17519.0	40°	17208.0	17174.9	14359.3	8923.3	5498.9	4685.0	4297.9	4062.9	3854.5	3685.8
18736.5	42.5°	18458.6	18263.4	14554.5	8463.4	4996.0	4370.6	4010.0	3692.4	3417.8	3262.3
20112.9	45°	19825.1	19385.0	14551.2	7877.7	4572.5	4082.8	3702.3	3252.3	2997.6	2852.0
21525.7	47.5°	21274.2	20457.0	14372.5	7229.3	4162.2	3765.2	3225.9	2881.8	2713.0	2623.7
23060.9	50°	22769.7	21459.5	14068.1	6484.8	3742.0	3404.5	2928.1	2693.2	2564.2	2481.4
24582.8	52.5°	24175.8	22369.4	13700.9	5641.1	3315.2	3053.8	2795.8	2613.8	2478.1	2385.5
26058.4	55°	25482.7	23153.5	13181.4	4777.6	2967.8	2818.9	2732.9	2580.7	2425.2	2316.0
27557.2	57.5°	26644.1	23663.0	12284.8	3967.0	2719.7	2656.8	2666.7	2524.5	2345.8	2253.1
29032.9	60°	27610.2	24036.9	10958.0	3215.9	2517.8	2498.0	2564.2	2418.6	2210.1	2104.3
30280.2	62.5°	28189.2	24030.3	9330.2	2633.6	2345.8	2352.4	2428.5	2286.2	2074.5	1975.2
30932.0	65°	28139.5	23441.3	7543.6	2253.1	2180.4	2187.0	2286.2	2140.7	1962.0	1902.4
30604.4	67.5°	27143.6	22005.4	5786.7	2005.0	1998.4	2028.2	2144.0	2041.4	1892.5	1885.9
28652.4	70°	24447.1	19024.4	4168.8	1806.5	1809.8	1852.8	2005.0	1978.5	1856.1	1869.4
24089.8	72.5°	19603.4	14504.8	2799.1	1598.0	1601.4	1670.8	1872.7	1928.9	1819.7	1995.1
17092.2	75°	13055.7	9045.7	1799.9	1376.4	1379.7	1469.0	1756.9	1833.0	1720.5	1988.5
8893.5	77.5°	6273.1	4066.3	1303.6	1158.0	1158.0	1240.7	1518.6	1641.1	1465.7	1545.1
2858.6	80°	2167.1	1528.6	1025.7	933.0	913.2	969.4	1280.4	1422.7	1263.9	1164.6
933.0	82.5°	853.6	794.1	823.8	724.6	658.4	694.8	995.9	1174.5	929.7	840.4
526.1	85°	489.7	516.1	582.3	479.7	380.5	426.8	731.2	843.7	701.4	618.7
172.0	87.5°	132.3	182.0	268.0	248.1	172.0	182.0	347.4	466.5	403.6	311.0
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>
6984.4
7163.1
7447.6
7791.7
8109.3
8221.8
8225.1
8079.6
7738.8
7255.7
6749.5
6286.3
5876.1
5363.2
4787.5
4215.1
3702.3
3272.2
2845.4
2603.9
2451.7
2345.8
2273.0
2193.6
2057.9
1945.4
1899.1
1895.8
1866.0
2021.5
2005.0
1416.1
1091.8
837.1
631.9
320.9
0.0

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