

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: P952858

Luminaire Tested: **GALN-SB6C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40560 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

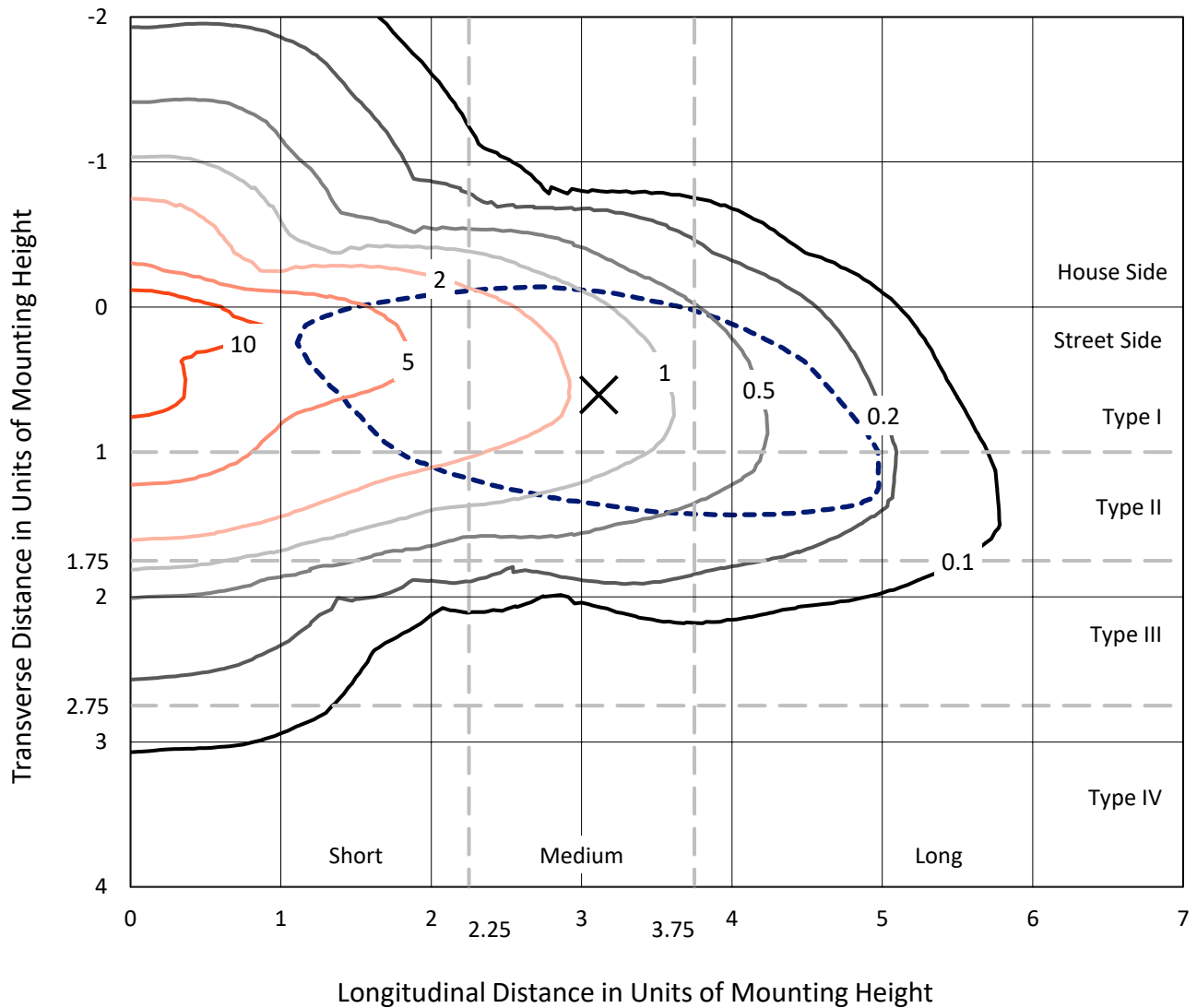
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

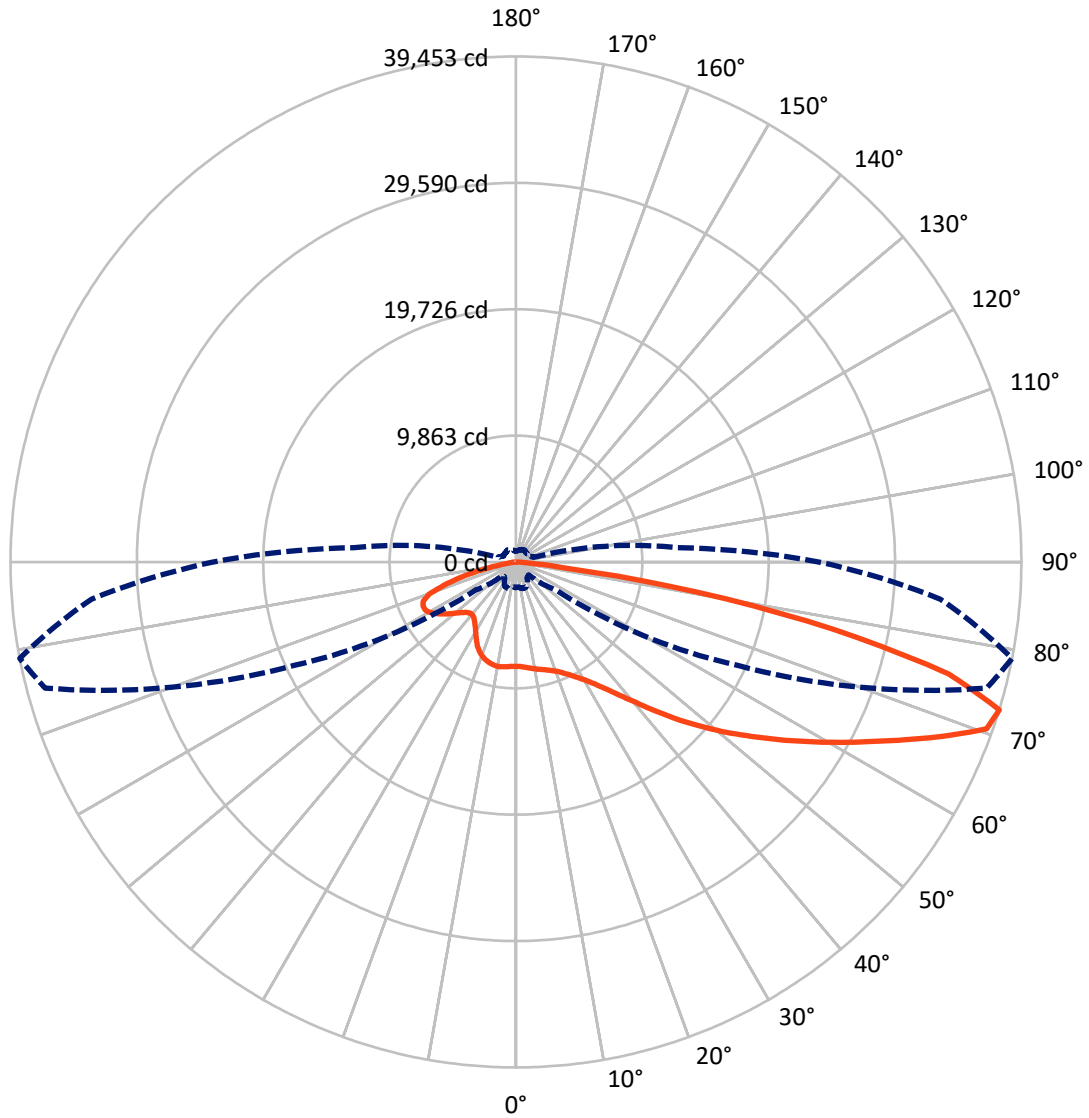
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8925.4	0.0	8925.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	31634.6	0.0	31634.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	40560.0	0.0	40560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.1	1.8
10°-20°	1932.3	4.8
20°-30°	3117.9	7.7
30°-40°	4679.5	11.5
40°-50°	6638.2	16.4
50°-60°	8383.1	20.7
60°-70°	8514.2	21.0
70°-80°	5802.8	14.3
80°-90°	752.9	1.9
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°	40560.0	100.0
0°-180°	40560.0	100.0

Coefficient of Utilization



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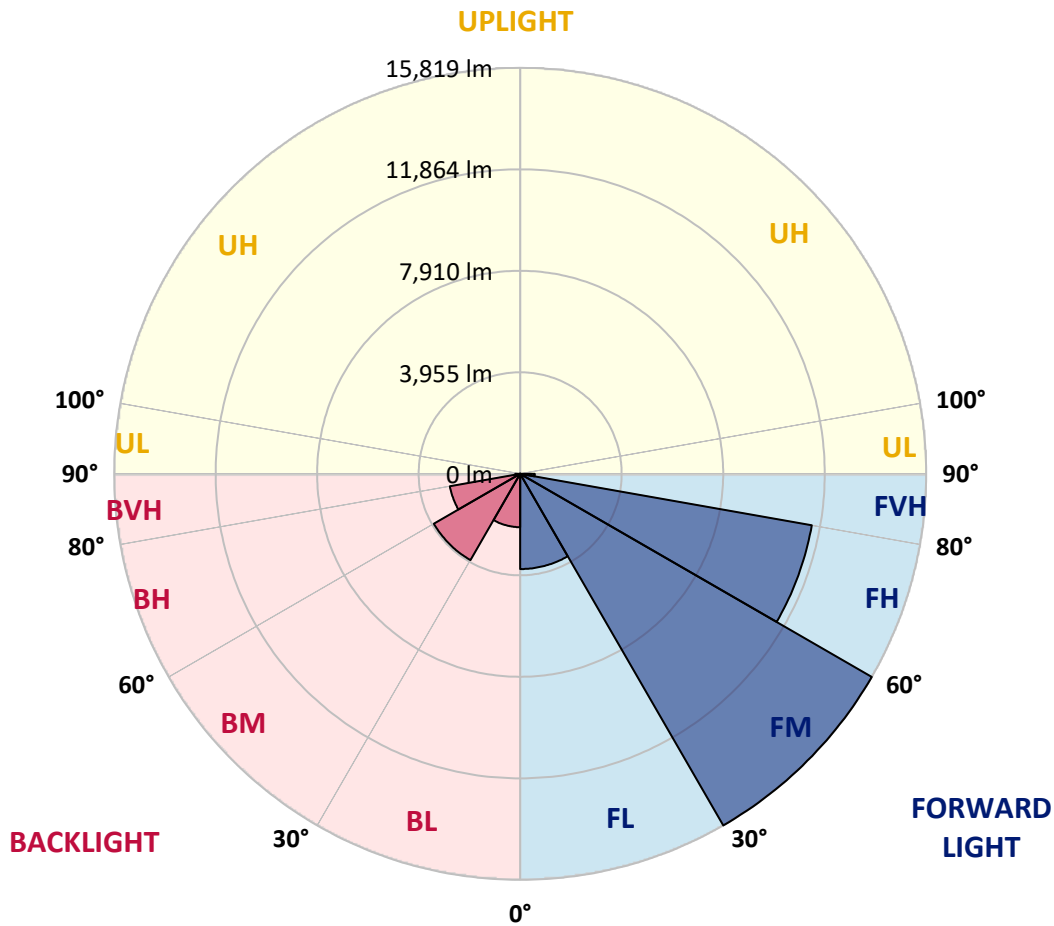
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3710.3	9.1			
FM (30°-60°)	15819.2	39.0			
FH (60°-80°)	11537.9	28.4			G4/12000
FVH (80°-90°)	567.1	1.4			G4/750
BL (0°-30°)	2079.0	5.1	B3/2500		
BM (30°-60°)	3881.6	9.6	B3/5000		
BH (60°-80°)	2779.1	6.9	B4/5000		G4/5000
BVH (80°-90°)	185.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0
2.5°	8146.3	8107.7	8131.3	8122.7	8133.5	8146.3	8150.6	8157.1	8178.5	8176.4
5°	8129.2	8090.5	8122.7	8112.0	8139.9	8169.9	8195.7	8219.3	8253.6	8268.6
7.5°	8092.7	8066.9	8099.1	8131.3	8182.8	8227.9	8264.3	8318.0	8367.3	8375.9
10°	7880.3	7861.0	7936.1	8019.7	8161.3	8283.6	8363.0	8425.2	8478.9	8487.5
12.5°	7659.3	7635.7	7719.4	7833.1	8062.7	8283.6	8451.0	8532.5	8579.7	8607.6
15°	7622.8	7603.5	7650.7	7749.4	7940.4	8225.7	8511.1	8661.2	8702.0	8734.2
17.5°	7798.8	7762.3	7781.6	7815.9	7927.5	8172.1	8558.3	8807.1	8869.3	8903.7
20°	8206.4	8154.9	8124.9	8056.2	8036.9	8180.7	8554.0	8983.1	9064.6	9107.5
22.5°	8749.2	8714.9	8650.5	8476.7	8287.9	8285.8	8635.5	9208.3	9360.7	9401.4
25°	9405.7	9354.2	9272.7	9036.7	8674.1	8493.9	8772.8	9495.8	9751.1	9761.9
27.5°	10160.9	10083.7	9972.1	9661.0	9171.9	8820.0	8983.1	9826.2	10199.5	10195.2
30°	10956.9	10879.6	10761.6	10384.0	9768.3	9259.8	9274.8	10182.4	10731.6	10708.0
32.5°	11538.3	11480.4	11456.8	11165.0	10454.8	9779.0	9609.5	10577.1	11388.1	11366.7
35°	11984.6	11909.5	11937.4	11789.3	11203.6	10360.4	10019.3	11047.0	12186.2	12184.1
37.5°	12426.5	12360.0	12383.6	12284.9	11896.6	11098.5	10519.2	11622.0	13175.3	13222.5
40°	12829.9	12759.1	12853.5	12761.2	12435.1	11883.7	11087.8	12272.1	14321.0	14411.1
42.5°	13072.3	13016.5	13173.1	13175.3	12902.8	12546.7	11712.1	12988.6	15646.9	15848.5
45°	13156.0	13136.7	13372.7	13422.0	13316.9	12930.7	12274.2	13769.6	17075.7	17436.2
47.5°	13065.9	13029.4	13355.5	13537.9	13621.5	13110.9	12739.8	14614.9	18534.7	19062.4
50°	12611.0	12540.2	13025.1	13409.1	13707.4	13228.9	13209.6	15591.1	20193.1	20770.2
52.5°	11793.6	11740.0	12291.4	12958.6	13518.6	13286.9	13737.4	16657.4	21767.9	22514.5
55°	10748.8	10678.0	11285.1	12156.2	13048.7	13267.5	14265.2	17850.3	23625.8	24383.2
57.5°	9092.5	8950.9	9719.0	10748.8	12282.8	13243.9	14814.4	19036.7	25513.9	26421.4
60°	6676.7	6466.4	7408.3	8629.1	10785.2	13014.4	15494.5	20366.9	27779.5	28596.9
62.5°	3887.6	3765.3	4381.0	5520.3	8129.2	11662.7	15876.4	21913.8	30006.5	30864.6
65°	3018.7	2984.3	3038.0	3125.9	4524.8	8732.0	14698.6	23422.0	32838.5	33439.2
67.5°	2761.2	2735.5	2759.1	2593.9	2295.6	4863.8	11628.4	23803.9	35872.2	36236.9
70°	2454.4	2424.4	2501.6	2360.0	1806.5	2212.0	7513.4	22417.9	38285.8	38970.2
72.5°	1999.6	1965.2	2145.5	2081.1	1521.1	1420.3	3773.9	19124.7	38032.6	39452.9
75°	1536.2	1516.8	1731.4	1785.0	1240.1	1117.8	1810.8	14215.8	33469.2	34900.3
77.5°	1192.9	1177.9	1287.3	1482.5	999.8	866.8	1113.5	9017.4	25222.1	25473.1
80°	894.7	851.7	952.6	1147.8	778.8	632.9	755.2	5258.5	15942.9	14451.8
82.5°	560.0	538.5	622.2	765.9	549.2	435.5	491.3	2905.0	6389.2	3763.1
85°	319.7	311.1	339.0	437.7	298.2	251.0	281.1	1283.0	1167.1	802.4
87.5°	128.7	124.4	154.5	195.2	109.4	92.3	98.7	308.9	257.5	238.1
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°
8142.0	0°	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0	8142.0
8174.2	2.5°	8165.6	8165.6	8135.6	8088.4	8034.8	8000.4	7944.7	7929.6	7871.7	7854.5
8247.2	5°	8264.3	8247.2	8154.9	8021.9	7839.5	7672.2	7487.7	7371.8	7208.8	7150.8
8390.9	7.5°	8388.8	8341.6	8182.8	7891.0	7509.1	7133.7	6743.2	6447.1	6163.9	6063.1
8508.9	10°	8502.5	8436.0	8165.6	7655.0	6994.2	6344.1	5722.0	5286.4	4956.0	4820.9
8639.8	12.5°	8616.2	8493.9	8051.9	7262.4	6262.6	5380.8	4717.9	4378.9	4175.1	4012.0
8747.1	15°	8723.5	8551.8	7876.0	6736.8	5460.2	4565.5	4076.4	3806.1	3643.0	3535.7
8903.7	17.5°	8847.9	8601.2	7612.1	6069.5	4696.4	4001.3	3602.2	3439.2	3407.0	3394.1
9118.2	20°	9021.7	8646.2	7264.5	5322.9	4134.3	3550.7	3344.8	3329.8	3327.6	3321.2
9375.7	22.5°	9208.3	8699.9	6805.4	4644.9	3655.9	3269.7	3233.2	3203.2	3183.9	3181.7
9686.8	25°	9429.3	8717.0	6230.4	4089.3	3248.2	3136.7	3093.8	3048.7	3035.8	3035.8
10040.8	27.5°	9643.9	8659.1	5561.0	3606.5	3018.7	3014.4	2958.6	2943.6	2941.4	2947.9
10444.1	30°	9858.4	8549.7	4895.9	3160.3	2885.6	2885.6	2866.3	2877.1	2885.6	2907.1
10997.6	32.5°	10148.0	8433.8	4340.3	2829.9	2769.8	2748.3	2767.6	2789.1	2797.7	2825.6
11725.0	35°	10572.8	8352.3	3898.3	2649.6	2649.6	2621.8	2632.5	2628.2	2608.9	2596.0
12604.6	37.5°	11135.0	8348.0	3533.6	2566.0	2548.8	2544.5	2546.7	2518.8	2443.7	2353.6
13668.7	40°	11810.8	8463.9	3252.5	2508.0	2495.2	2520.9	2508.0	2433.0	2227.0	2070.4
14977.5	42.5°	12718.3	8794.3	3072.3	2437.2	2475.9	2508.0	2456.6	2197.0	2057.5	1952.4
16468.6	45°	13786.7	9330.6	2980.0	2362.2	2439.4	2478.0	2229.1	2115.4	2003.9	1877.3
18094.8	47.5°	14996.8	10006.4	2958.6	2291.4	2357.9	2381.5	2132.6	2081.1	1954.5	1817.2
19729.7	50°	16314.1	10806.7	3016.5	2207.7	2239.9	2158.3	2100.4	2053.2	1922.3	1787.2
21405.3	52.5°	17676.5	11688.5	3132.4	2094.0	2121.9	2031.8	2087.5	2046.8	1903.0	1720.7
23136.7	55°	19015.2	12576.7	3243.9	1961.0	2001.7	1918.0	2051.1	2021.0	1815.1	1609.1
24983.9	57.5°	20375.5	13460.6	3353.4	1843.0	1885.9	1808.6	1993.1	1952.4	1716.4	1506.1
27000.7	60°	21789.3	14318.8	3404.9	1729.2	1759.3	1707.8	1905.2	1834.4	1604.8	1401.0
28983.1	62.5°	23113.1	15033.3	3321.2	1615.5	1634.8	1613.4	1789.3	1694.9	1493.2	1283.0
31049.1	65°	24441.1	15458.1	3063.7	1504.0	1508.3	1497.5	1626.3	1544.7	1362.4	1180.0
32857.8	67.5°	25644.7	15696.2	2653.9	1383.8	1373.1	1368.8	1473.9	1381.7	1235.8	1077.0
34233.0	70°	25900.0	15091.2	2027.5	1242.2	1242.2	1231.5	1306.6	1212.2	1096.3	967.6
33248.2	72.5°	23655.9	12694.7	1439.6	1081.3	1098.5	1077.0	1139.2	1059.9	954.7	868.9
28654.8	75°	19075.3	9309.2	1047.0	916.1	946.1	909.7	967.6	911.8	821.7	819.6
19746.8	77.5°	13106.6	5756.3	759.5	755.2	776.7	729.5	796.0	765.9	684.4	647.9
8594.7	80°	5593.2	2295.6	553.5	583.6	583.6	540.7	617.9	626.5	555.7	538.5
1658.4	82.5°	1113.5	652.2	388.3	401.2	377.6	364.7	437.7	484.9	669.4	744.5
499.9	85°	334.7	240.3	233.9	218.8	193.1	195.2	257.5	487.0	600.7	343.3
165.2	87.5°	92.3	60.1	62.2	49.3	40.8	53.6	88.0	369.0	201.7	85.8
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>
8142.0
7882.4
7193.7
6076.0
4850.9
4065.7
3555.0
3402.7
3342.6
3205.3
3048.7
2965.0
2922.1
2849.2
2626.0
2355.7
2066.1
1948.1
1868.7
1806.5
1772.2
1707.8
1598.4
1501.8
1394.6
1280.8
1167.1
1064.1
963.3
843.2
738.0
607.2
538.5
746.6
296.1
72.9
0.0

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