

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: P950359

Luminaire Tested: **GALN-SB4D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950359
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-SB4D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36424 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

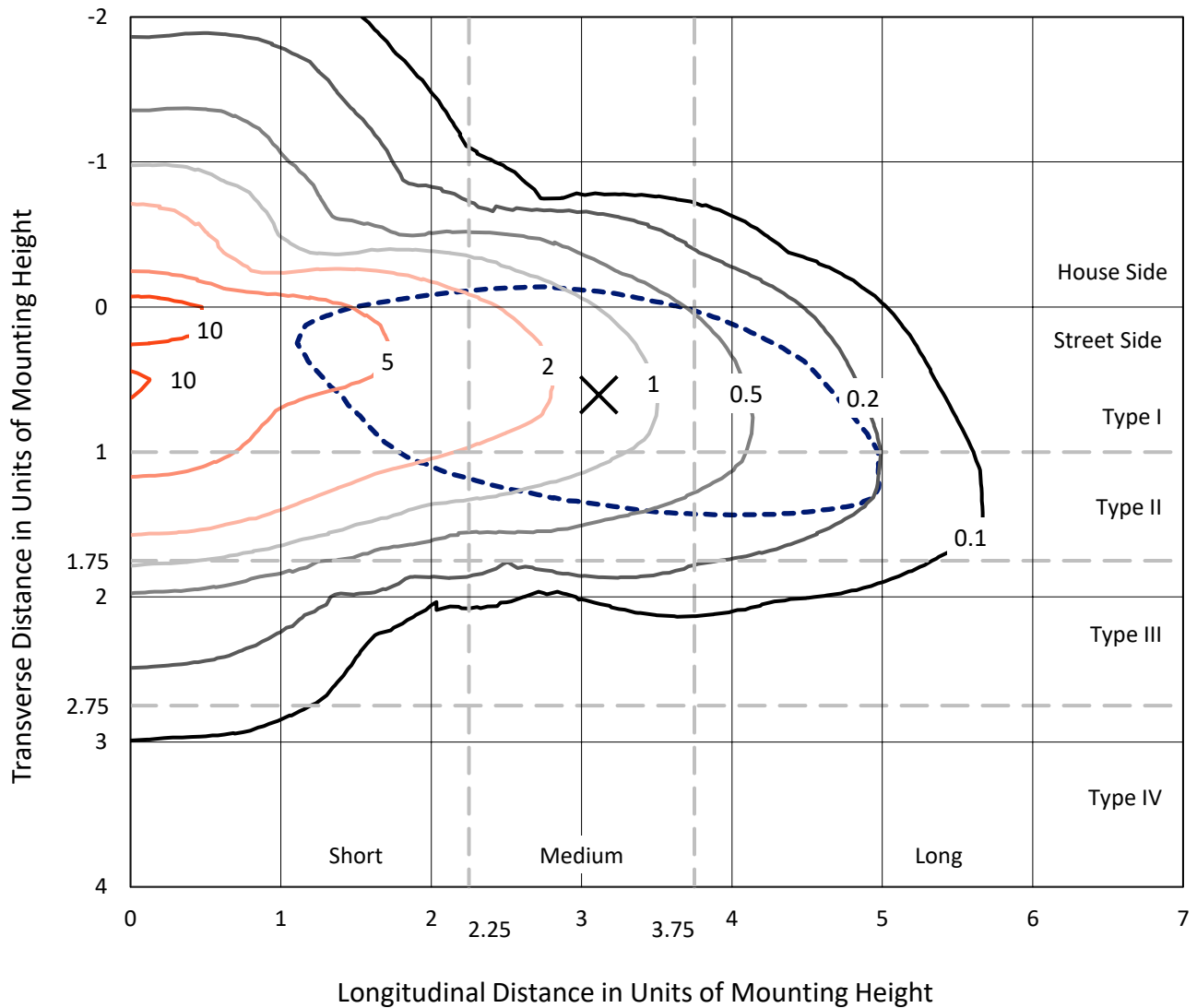
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

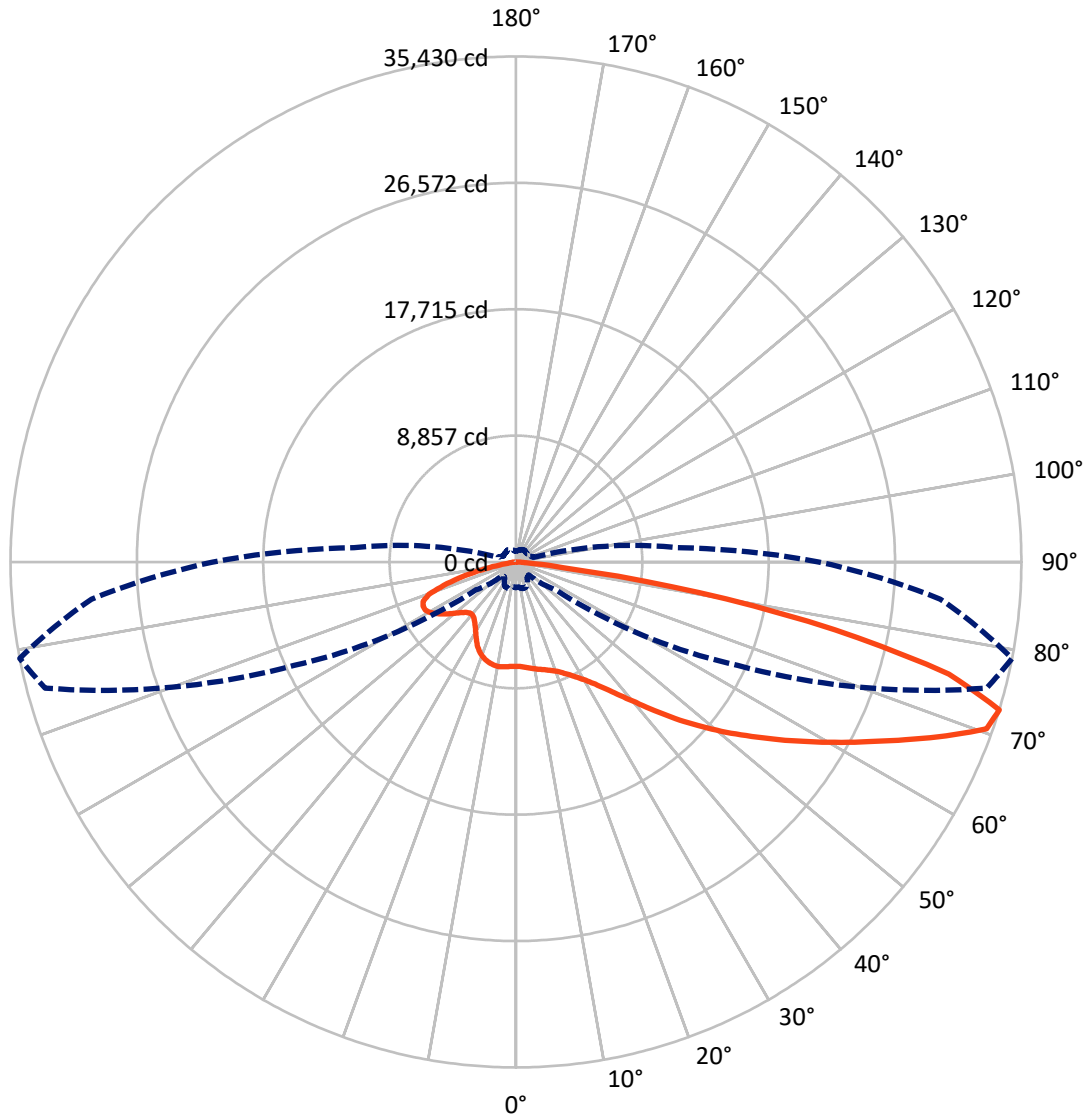
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	8015.3	0.0	8015.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28408.7	0.0	28408.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	36424.0	0.0	36424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.7	1.8
10°-20°	1735.2	4.8
20°-30°	2800.0	7.7
30°-40°	4202.4	11.5
40°-50°	5961.3	16.4
50°-60°	7528.3	20.7
60°-70°	7646.0	21.0
70°-80°	5211.1	14.3
80°-90°	676.1	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°	36424.0	100.0
0°-180°	36424.0	100.0



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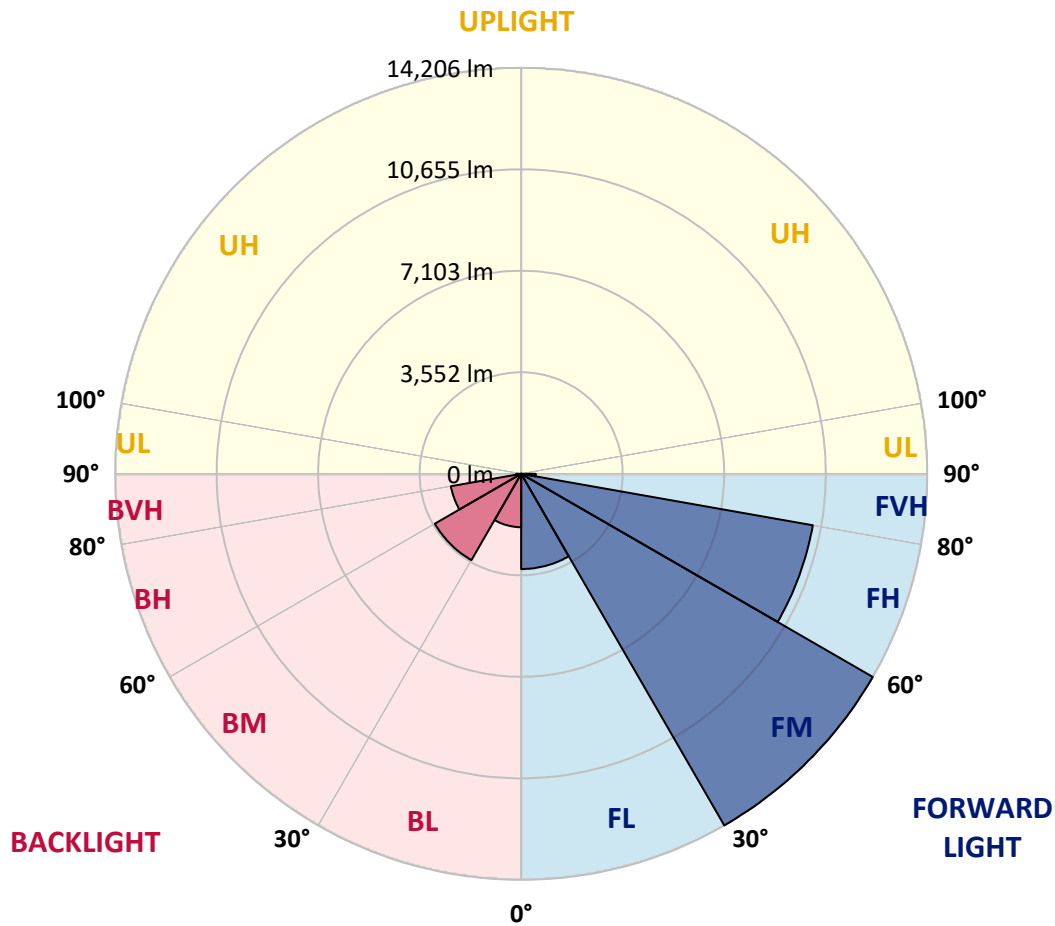
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3331.9	9.1			
FM (30°-60°)	14206.1	39.0			
FH (60°-80°)	10361.4	28.4			G4/12000
FVH (80°-90°)	509.3	1.4			G4/750
BL (0°-30°)	1867.0	5.1	B3/2500		
BM (30°-60°)	3485.8	9.6	B3/5000		
BH (60°-80°)	2495.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	166.8	0.5			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°	79°
0°	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8
2.5°	7315.6	7280.9	7302.1	7294.4	7304.1	7315.6	7319.5	7325.3	7344.5	7342.6
5°	7300.2	7265.5	7294.4	7284.8	7309.8	7336.8	7359.9	7381.1	7412.0	7425.4
7.5°	7267.5	7244.3	7273.2	7302.1	7348.4	7388.8	7421.6	7469.8	7514.1	7521.8
10°	7076.7	7059.4	7126.8	7202.0	7329.1	7438.9	7510.2	7566.1	7614.3	7622.0
12.5°	6878.3	6857.1	6932.2	7034.3	7240.5	7438.9	7589.2	7662.4	7704.8	7729.9
15°	6845.5	6828.2	6870.6	6959.2	7130.7	7386.9	7643.2	7778.0	7814.6	7843.5
17.5°	7003.5	6970.7	6988.1	7018.9	7119.1	7338.7	7685.5	7909.0	7964.9	7995.7
20°	7369.6	7323.3	7296.4	7234.7	7217.4	7346.5	7681.7	8067.0	8140.2	8178.8
22.5°	7857.0	7826.2	7768.4	7612.3	7442.8	7440.9	7754.9	8269.3	8406.1	8442.7
25°	8446.6	8400.3	8327.1	8115.2	7789.6	7627.7	7878.2	8527.5	8756.8	8766.4
27.5°	9124.8	9055.4	8955.2	8675.9	8236.6	7920.6	8067.0	8824.2	9159.5	9155.6
30°	9839.6	9770.2	9664.3	9325.2	8772.2	8315.6	8329.1	9144.0	9637.3	9616.1
32.5°	10361.7	10309.7	10288.5	10026.5	9388.7	8781.8	8629.6	9498.6	10226.8	10207.6
35°	10762.5	10695.0	10720.1	10587.1	10061.2	9304.0	8997.6	9920.5	10943.6	10941.6
37.5°	11159.4	11099.6	11120.8	11032.2	10683.5	9966.7	9446.5	10436.9	11831.8	11874.2
40°	11521.6	11458.0	11542.8	11459.9	11167.1	10671.9	9957.1	11020.6	12860.6	12941.5
42.5°	11739.3	11689.2	11829.8	11831.8	11587.1	11267.3	10517.8	11664.2	14051.3	14232.4
45°	11814.4	11797.1	12009.0	12053.3	11958.9	11612.1	11022.6	12365.5	15334.5	15658.2
47.5°	11733.5	11700.8	11993.6	12157.4	12232.5	11774.0	11440.7	13124.6	16644.6	17118.6
50°	11325.1	11261.5	11696.9	12041.8	12309.6	11879.9	11862.6	14001.2	18134.0	18652.2
52.5°	10591.0	10542.8	11038.0	11637.2	12140.0	11932.0	12336.6	14958.8	19548.2	20218.6
55°	9652.7	9589.1	10134.4	10916.6	11718.1	11914.6	12810.5	16030.0	21216.7	21896.8
57.5°	8165.3	8038.1	8727.9	9652.7	11030.3	11893.4	13303.8	17095.5	22912.1	23727.1
60°	5995.8	5807.0	6652.8	7749.1	9685.4	11687.3	13914.5	18290.0	24946.7	25680.8
62.5°	3491.2	3381.3	3934.3	4957.4	7300.2	10473.5	14257.5	19679.2	26946.6	27717.3
65°	2710.8	2680.0	2728.2	2807.2	4063.4	7841.6	13199.7	21033.6	29489.8	30029.3
67.5°	2479.6	2456.5	2477.7	2329.4	2061.6	4367.8	10442.6	21376.6	32214.2	32541.7
70°	2204.1	2177.2	2246.5	2119.4	1622.3	1986.4	6747.3	20131.9	34381.7	34996.3
72.5°	1795.7	1764.8	1926.7	1868.9	1366.0	1275.5	3389.0	17174.5	34154.4	35429.8
75°	1379.5	1362.2	1554.8	1603.0	1113.6	1003.8	1626.1	12766.2	30056.3	31341.4
77.5°	1071.2	1057.8	1156.0	1331.3	897.8	778.4	999.9	8097.9	22650.1	22875.5
80°	803.4	764.9	855.4	1030.8	699.4	568.4	678.2	4722.3	14317.2	12978.2
82.5°	502.9	483.6	558.7	687.8	493.2	391.1	441.2	2608.7	5737.7	3379.4
85°	287.1	279.4	304.4	393.0	267.8	225.4	252.4	1152.2	1048.1	720.6
87.5°	115.6	111.7	138.7	175.3	98.3	82.8	88.6	277.4	231.2	213.9
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°
7311.8	0°	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8	7311.8
7340.7	2.5°	7333.0	7333.0	7306.0	7263.6	7215.4	7184.6	7134.5	7121.0	7069.0	7053.6
7406.2	5°	7421.6	7406.2	7323.3	7203.9	7040.1	6889.8	6724.1	6620.1	6473.7	6421.6
7535.3	7.5°	7533.3	7491.0	7348.4	7086.3	6743.4	6406.2	6055.6	5789.7	5535.4	5444.8
7641.2	10°	7635.5	7575.7	7333.0	6874.4	6281.0	5697.2	5138.5	4747.4	4450.6	4329.3
7758.8	12.5°	7737.6	7627.7	7230.9	6521.8	5624.0	4832.1	4236.8	3932.4	3749.3	3602.9
7855.1	15°	7833.9	7679.8	7072.9	6049.8	4903.4	4100.0	3660.7	3417.9	3271.5	3175.2
7995.7	17.5°	7945.7	7724.1	6835.9	5450.6	4217.5	3593.3	3234.9	3088.5	3059.6	3048.0
8188.4	20°	8101.7	7764.5	6523.8	4780.1	3712.7	3188.7	3003.7	2990.2	2988.3	2982.5
8419.6	22.5°	8269.3	7812.7	6111.4	4171.3	3283.1	2936.3	2903.5	2876.5	2859.2	2857.3
8699.0	25°	8467.8	7828.1	5595.1	3672.3	2917.0	2816.8	2778.3	2737.8	2726.3	2726.3
9016.9	27.5°	8660.5	7776.1	4994.0	3238.8	2710.8	2707.0	2656.9	2643.4	2641.5	2647.3
9379.1	30°	8853.1	7677.8	4396.7	2838.0	2591.4	2591.4	2574.1	2583.7	2591.4	2610.7
9876.2	32.5°	9113.2	7573.8	3897.7	2541.3	2487.4	2468.1	2485.4	2504.7	2512.4	2537.4
10529.3	35°	9494.7	7500.6	3500.8	2379.5	2379.5	2354.4	2364.0	2360.2	2342.8	2331.3
11319.3	37.5°	9999.5	7496.7	3173.3	2304.3	2288.9	2285.0	2287.0	2261.9	2194.5	2113.6
12274.9	40°	10606.4	7600.8	2920.9	2252.3	2240.7	2263.9	2252.3	2184.9	1999.9	1859.3
13450.2	42.5°	11421.4	7897.5	2759.0	2188.7	2223.4	2252.3	2206.1	1972.9	1847.7	1753.3
14789.2	45°	12380.9	8379.2	2676.2	2121.3	2190.6	2225.3	2001.8	1899.7	1799.5	1685.8
16249.7	47.5°	13467.5	8986.1	2656.9	2057.7	2117.4	2138.6	1915.1	1868.9	1755.2	1631.9
17717.8	50°	14650.5	9704.7	2708.9	1982.6	2011.5	1938.2	1886.2	1843.8	1726.3	1604.9
19222.5	52.5°	15874.0	10496.6	2813.0	1880.4	1905.5	1824.6	1874.7	1838.1	1709.0	1545.2
20777.4	55°	17076.2	11294.2	2913.1	1761.0	1797.6	1722.5	1841.9	1814.9	1630.0	1445.0
22436.3	57.5°	18297.7	12088.0	3011.4	1655.0	1693.6	1624.2	1789.9	1753.3	1541.3	1352.5
24247.3	60°	19567.4	12858.7	3057.6	1552.9	1579.9	1533.6	1710.9	1647.3	1441.2	1258.1
26027.6	62.5°	20756.2	13500.3	2982.5	1450.8	1468.1	1448.9	1606.9	1522.1	1341.0	1152.2
27883.0	65°	21948.8	13881.8	2751.3	1350.6	1354.5	1344.8	1460.4	1387.2	1223.4	1059.7
29507.2	67.5°	23029.7	14095.6	2383.3	1242.7	1233.1	1229.2	1323.6	1240.8	1109.8	967.2
30742.2	70°	23258.9	13552.3	1820.7	1115.6	1115.6	1105.9	1173.4	1088.6	984.5	868.9
29857.8	72.5°	21243.6	11400.2	1292.8	971.0	986.5	967.2	1023.1	951.8	857.4	780.3
25732.8	75°	17130.2	8359.9	940.2	822.7	849.7	816.9	868.9	818.8	737.9	736.0
17733.2	77.5°	11770.1	5169.3	682.0	678.2	697.5	655.1	714.8	687.8	614.6	581.9
7718.3	80°	5022.9	2061.6	497.1	524.1	524.1	485.5	554.9	562.6	499.0	483.6
1489.3	82.5°	999.9	585.7	348.7	360.3	339.1	327.5	393.0	435.4	601.1	668.6
448.9	85°	300.6	215.8	210.0	196.5	173.4	175.3	231.2	437.4	539.5	308.3
148.4	87.5°	82.8	53.9	55.9	44.3	36.6	48.2	79.0	331.4	181.1	77.1
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>
7311.8
7078.6
6460.2
5456.4
4356.2
3651.1
3192.5
3055.7
3001.8
2878.5
2737.8
2662.7
2624.1
2558.6
2358.3
2115.5
1855.4
1749.4
1678.1
1622.3
1591.4
1533.6
1435.4
1348.7
1252.3
1150.2
1048.1
955.6
865.1
757.2
662.8
545.3
483.6
670.5
265.9
65.5
0.0

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