

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: P956785

Luminaire Tested: **GALN-SB9B-830-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956785  
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-SB9B-830-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

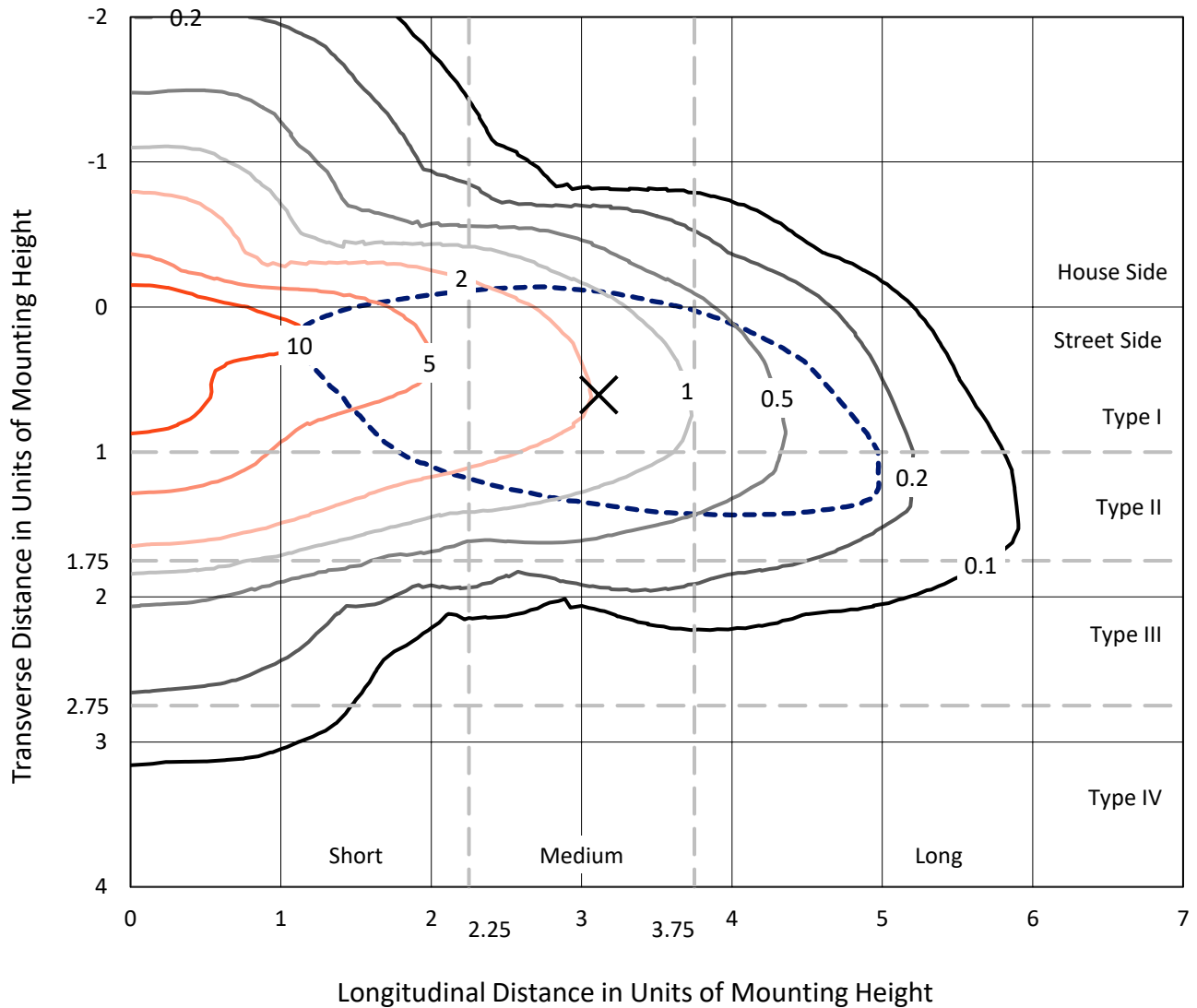
Lumens per Lamp: N/A  
Luminaire Lumens: 45807 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

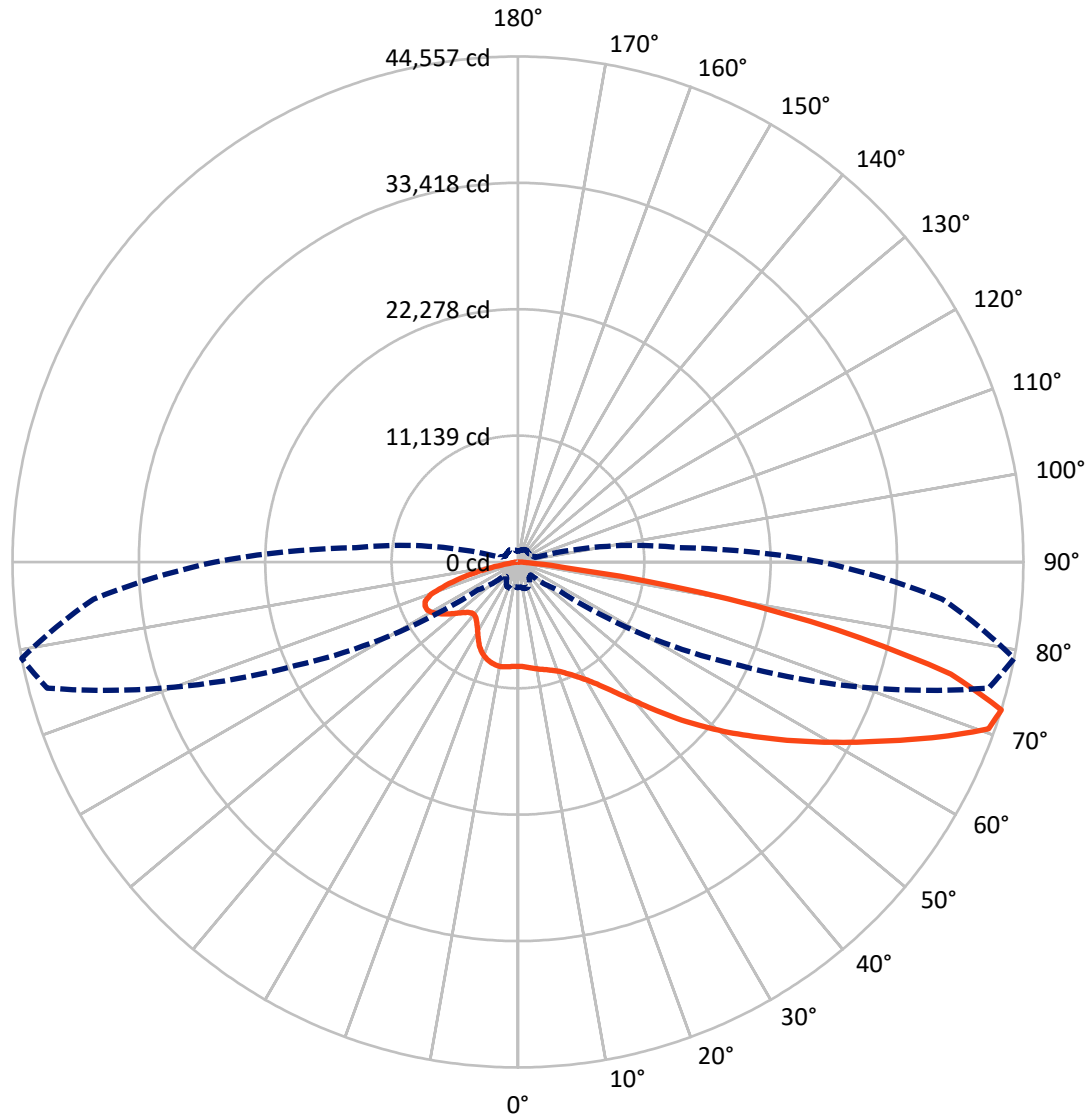
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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
<b>House Side</b>	Lumens	10080.1	0.0	10080.1
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	35726.9	0.0	35726.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	45807.0	0.0	45807.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	834.7	1.8
10°-20°	2182.2	4.8
20°-30°	3521.2	7.7
30°-40°	5284.9	11.5
40°-50°	7496.9	16.4
50°-60°	9467.6	20.7
60°-70°	9615.6	21.0
70°-80°	6553.5	14.3
80°-90°	850.3	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°	45807.0	100.0
0°-180°	45807.0	100.0

**Coefficient of Utilization**

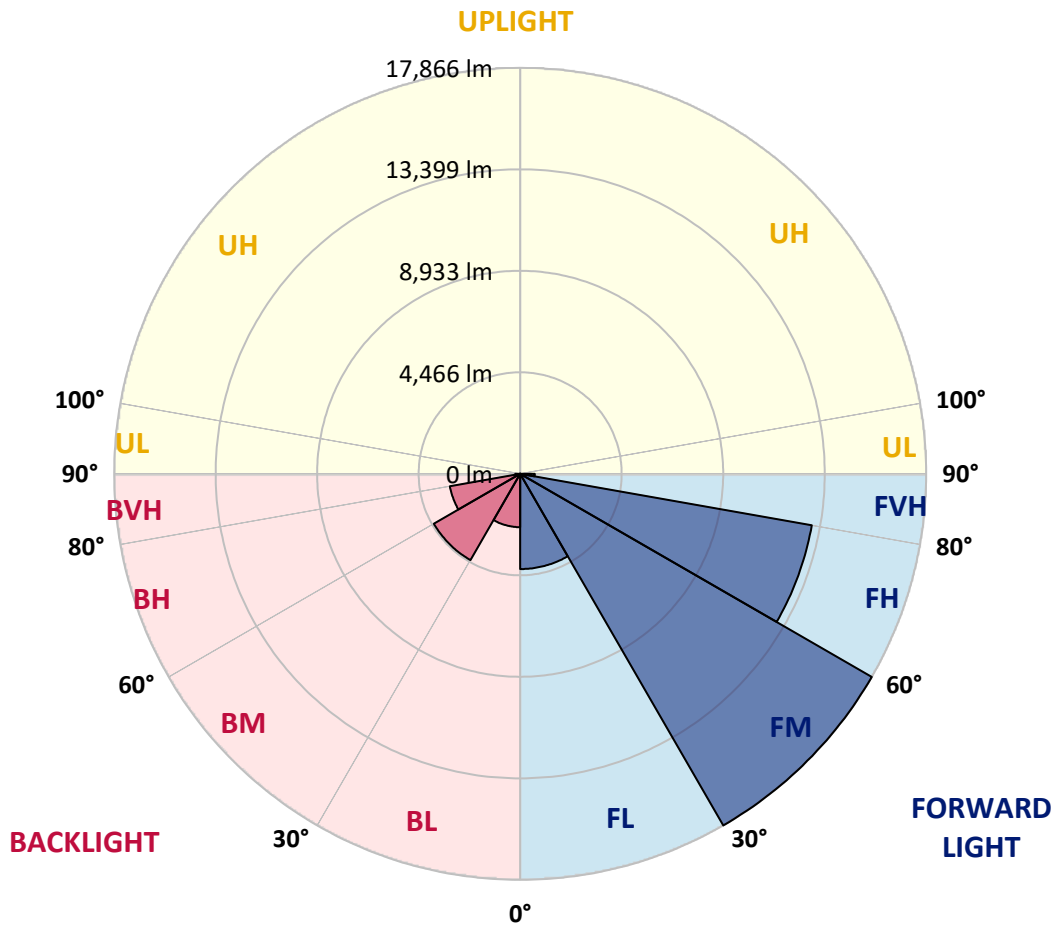


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4190.2	9.1			
FM (30°-60°)	17865.7	39.0			
FH (60°-80°)	13030.5	28.4			G5
FVH (80°-90°)	640.5	1.4			G4/750
BL (0°-30°)	2347.9	5.1	B3/2500		
BM (30°-60°)	4383.8	9.6	B3/5000		
BH (60°-80°)	3138.6	6.9	B4/5000		G4/5000
BVH (80°-90°)	209.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3
2.5°	9200.2	9156.6	9183.2	9173.5	9185.6	9200.2	9205.0	9212.3	9236.5	9234.1
5°	9180.8	9137.2	9173.5	9161.4	9192.9	9226.8	9255.9	9282.5	9321.3	9338.3
7.5°	9139.6	9110.5	9146.9	9183.2	9241.4	9292.2	9333.4	9394.0	9449.7	9459.4
10°	8899.7	8877.9	8962.7	9057.2	9217.1	9355.2	9444.9	9515.2	9575.7	9585.4
12.5°	8650.1	8623.5	8718.0	8846.4	9105.7	9355.2	9544.2	9636.3	9689.6	9721.1
15°	8609.0	8587.1	8640.5	8751.9	8967.6	9289.8	9612.1	9781.7	9827.7	9864.1
17.5°	8807.6	8766.4	8788.3	8827.0	8953.0	9229.2	9665.4	9946.5	10016.7	10055.5
20°	9268.0	9209.9	9175.9	9098.4	9076.6	9238.9	9660.5	10145.1	10237.2	10285.7
22.5°	9881.0	9842.3	9769.6	9573.3	9360.1	9357.7	9752.6	10399.6	10571.6	10617.6
25°	10622.5	10564.3	10472.2	10205.7	9796.2	9592.7	9907.7	10724.2	11012.6	11024.7
27.5°	11475.4	11388.1	11262.1	10910.8	10358.4	9961.0	10145.1	11097.4	11519.0	11514.1
30°	12374.3	12287.1	12153.8	11727.4	11032.0	10457.7	10474.7	11499.6	12119.9	12093.2
32.5°	13030.9	12965.5	12938.9	12609.3	11807.3	11044.1	10852.7	11945.4	12861.3	12837.1
35°	13534.9	13450.1	13481.6	13314.4	12653.0	11700.7	11315.5	12476.1	13762.7	13760.3
37.5°	14034.1	13959.0	13985.6	13874.2	13435.6	12534.2	11880.0	13125.4	14879.7	14933.0
40°	14489.6	14409.6	14516.2	14412.1	14043.8	13421.0	12522.1	13859.6	16173.6	16275.4
42.5°	14763.4	14700.4	14877.3	14879.7	14572.0	14169.8	13227.2	14668.9	17671.0	17898.8
45°	14857.9	14836.1	15102.6	15158.3	15039.6	14603.5	13862.0	15550.9	19284.7	19691.8
47.5°	14756.1	14714.9	15083.2	15289.2	15383.7	14807.0	14387.8	16505.5	20932.4	21528.4
50°	14242.4	14162.5	14710.1	15143.8	15480.6	14940.3	14918.5	17608.0	22805.4	23457.2
52.5°	13319.3	13258.7	13881.4	14635.0	15267.4	15005.7	15514.5	18812.2	24583.9	25427.1
55°	12139.3	12059.3	12745.0	13728.8	14736.7	14983.9	16110.6	20159.4	26682.2	27537.5
57.5°	10268.7	10108.8	10976.2	12139.3	13871.7	14957.2	16730.9	21499.4	28814.4	29839.4
60°	7540.4	7302.9	8366.7	9745.3	12180.5	14698.0	17499.0	23001.6	31373.1	32296.3
62.5°	4390.5	4252.4	4947.8	6234.4	9180.8	13171.5	17930.3	24748.6	33888.2	34857.4
65°	3409.2	3370.4	3431.0	3530.3	5110.1	9861.6	16600.0	26452.0	37086.6	37765.0
67.5°	3118.4	3089.3	3116.0	2929.4	2592.6	5493.0	13132.7	26883.3	40512.7	40924.6
70°	2771.9	2738.0	2825.2	2665.3	2040.2	2498.1	8485.4	25318.0	43238.6	44011.5
72.5°	2258.2	2219.5	2423.0	2350.3	1717.9	1604.0	4262.1	21598.7	42952.7	44556.7
75°	1734.9	1713.1	1955.4	2015.9	1400.5	1262.4	2045.0	16054.9	37798.9	39415.1
77.5°	1347.2	1330.2	1453.8	1674.3	1129.1	978.9	1257.5	10183.9	28484.9	28768.4
80°	1010.4	961.9	1075.8	1296.3	879.6	714.8	852.9	5938.8	18005.4	16321.4
82.5°	632.4	608.2	702.7	865.0	620.3	491.9	554.9	3280.8	7215.7	4250.0
85°	361.0	351.3	382.8	494.3	336.8	283.5	317.4	1449.0	1318.1	906.2
87.5°	145.4	140.5	174.5	220.5	123.6	104.2	111.5	348.9	290.8	269.0
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°
9195.3	0°	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3	9195.3
9231.7	2.5°	9222.0	9222.0	9188.1	9134.7	9074.2	9035.4	8972.4	8955.4	8890.0	8870.6
9314.0	5°	9333.4	9314.0	9209.9	9059.6	8853.7	8664.7	8456.3	8325.5	8141.3	8075.9
9476.4	7.5°	9474.0	9420.7	9241.4	8911.8	8480.5	8056.5	7615.5	7281.1	6961.3	6847.4
9609.7	10°	9602.4	9527.3	9222.0	8645.3	7899.0	7164.8	6462.2	5970.3	5597.2	5444.5
9757.5	12.5°	9730.8	9592.7	9093.6	8201.9	7072.8	6076.9	5328.2	4945.4	4715.2	4531.0
9878.6	15°	9852.0	9658.1	8894.9	7608.2	6166.6	5156.2	4603.7	4298.4	4114.3	3993.1
10055.5	17.5°	9992.5	9713.8	8596.8	6854.7	5304.0	4518.9	4068.2	3884.1	3847.7	3833.2
10297.8	20°	10188.8	9764.7	8204.3	6011.5	4669.1	4010.1	3777.5	3760.5	3758.1	3750.8
10588.5	22.5°	10399.6	9825.3	7685.8	5245.8	4128.8	3692.7	3651.5	3617.6	3595.7	3593.3
10939.9	25°	10649.1	9844.7	7036.4	4618.3	3668.4	3542.4	3494.0	3443.1	3428.6	3428.6
11339.7	27.5°	10891.4	9779.3	6280.4	4073.1	3409.2	3404.3	3341.3	3324.4	3321.9	3329.2
11795.2	30°	11133.7	9655.7	5529.3	3569.1	3258.9	3258.9	3237.1	3249.3	3258.9	3283.2
12420.3	32.5°	11460.8	9524.8	4901.7	3195.9	3128.1	3103.9	3125.7	3149.9	3159.6	3191.1
13241.7	35°	11940.6	9432.8	4402.6	2992.4	2992.4	2960.9	2973.0	2968.2	2946.4	2931.8
14235.2	37.5°	12575.4	9427.9	3990.7	2897.9	2878.5	2873.7	2876.1	2844.6	2759.8	2658.0
15437.0	40°	13338.7	9558.8	3673.3	2832.5	2818.0	2847.0	2832.5	2747.7	2515.1	2338.2
16915.0	42.5°	14363.6	9931.9	3469.7	2752.5	2796.2	2832.5	2774.3	2481.2	2323.7	2204.9
18599.0	45°	15570.3	10537.7	3365.6	2667.7	2755.0	2798.6	2517.5	2389.1	2263.1	2120.1
20435.7	47.5°	16936.8	11300.9	3341.3	2587.8	2662.9	2689.5	2408.5	2350.3	2207.4	2052.3
22282.0	50°	18424.6	12204.7	3406.8	2493.3	2529.6	2437.5	2372.1	2318.8	2171.0	2018.4
24174.4	52.5°	19963.2	13200.6	3537.6	2364.9	2396.4	2294.6	2357.6	2311.6	2149.2	1943.3
26129.7	55°	21475.1	14203.7	3663.6	2214.6	2260.7	2166.2	2316.4	2282.5	2049.9	1817.3
28215.9	57.5°	23011.3	15202.0	3787.2	2081.4	2129.8	2042.6	2251.0	2204.9	1938.4	1701.0
30493.6	60°	24608.1	16171.2	3845.3	1952.9	1986.9	1928.7	2151.6	2071.7	1812.4	1582.2
32732.4	62.5°	26103.1	16978.0	3750.8	1824.5	1846.3	1822.1	2020.8	1914.2	1686.4	1449.0
35065.8	65°	27602.9	17457.8	3460.1	1698.5	1703.4	1691.3	1836.6	1744.6	1538.6	1332.7
37108.4	67.5°	28962.2	17726.7	2997.3	1562.8	1550.7	1545.9	1664.6	1560.4	1395.7	1216.4
38661.5	70°	29250.6	17043.4	2289.7	1402.9	1402.9	1390.8	1475.6	1369.0	1238.2	1092.8
37549.4	72.5°	26716.1	14336.9	1625.8	1221.2	1240.6	1216.4	1286.6	1197.0	1078.2	981.3
32361.7	75°	21543.0	10513.4	1182.4	1034.6	1068.5	1027.4	1092.8	1029.8	928.0	925.6
22301.4	77.5°	14802.2	6500.9	857.7	852.9	877.1	823.8	898.9	865.0	772.9	731.7
9706.6	80°	6316.8	2592.6	625.1	659.1	659.1	610.6	697.8	707.5	627.6	608.2
1873.0	82.5°	1257.5	736.6	438.6	453.1	426.4	411.9	494.3	547.6	756.0	840.8
564.6	85°	378.0	271.4	264.1	247.1	218.1	220.5	290.8	550.0	678.4	387.7
186.6	87.5°	104.2	67.8	70.3	55.7	46.0	60.6	99.3	416.8	227.8	96.9
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>
9195.3
8902.1
8124.3
6862.0
5478.4
4591.6
4014.9
3842.9
3775.0
3620.0
3443.1
3348.6
3300.1
3217.8
2965.8
2660.5
2333.4
2200.1
2110.4
2040.2
2001.4
1928.7
1805.1
1696.1
1575.0
1446.5
1318.1
1201.8
1087.9
952.2
833.5
685.7
608.2
843.2
334.4
82.4
0.0

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