

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: P955359

Luminaire Tested: **GALN-SB8B-830-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-830-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

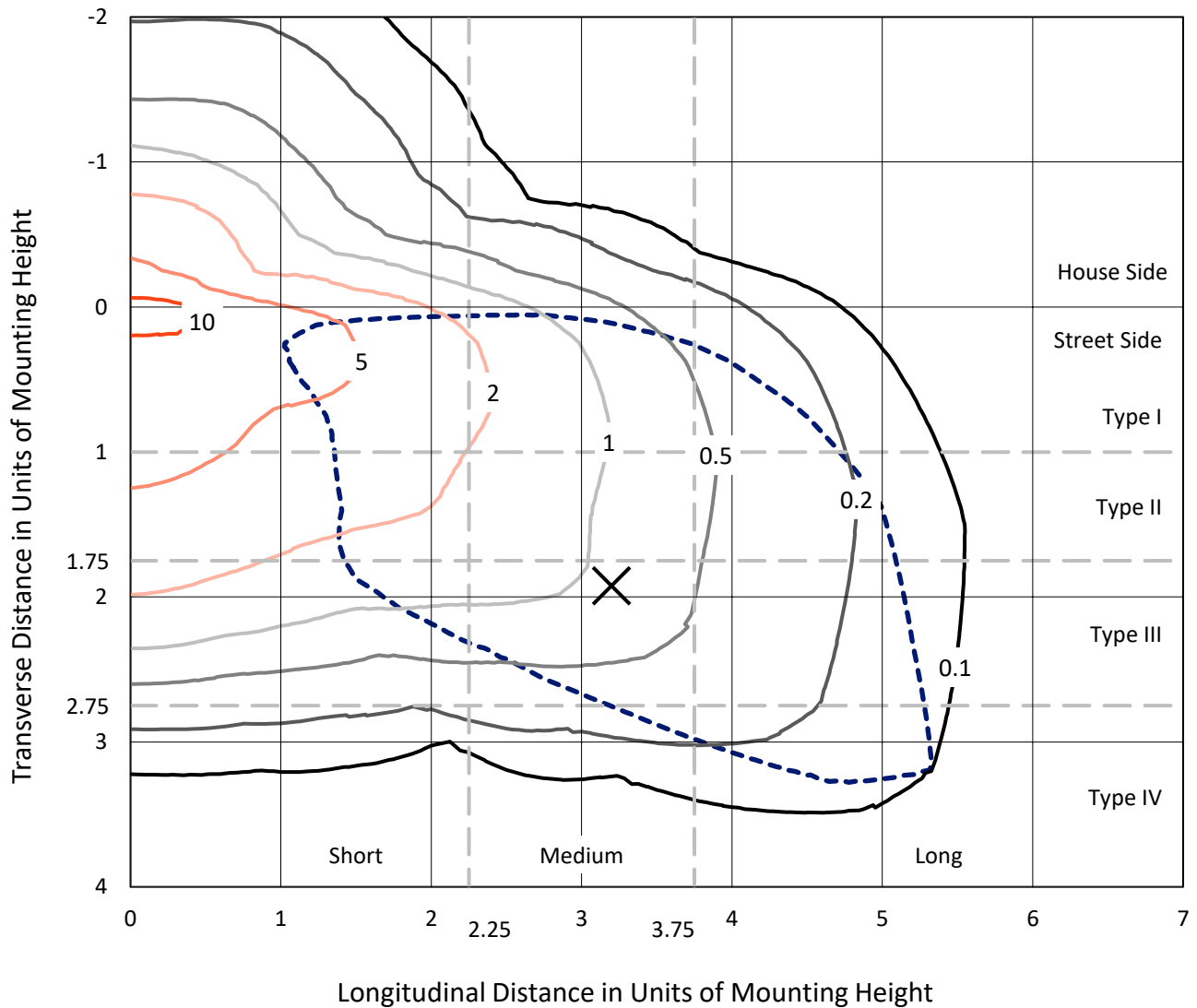
Lumens per Lamp: N/A  
Luminaire Lumens: 39987 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

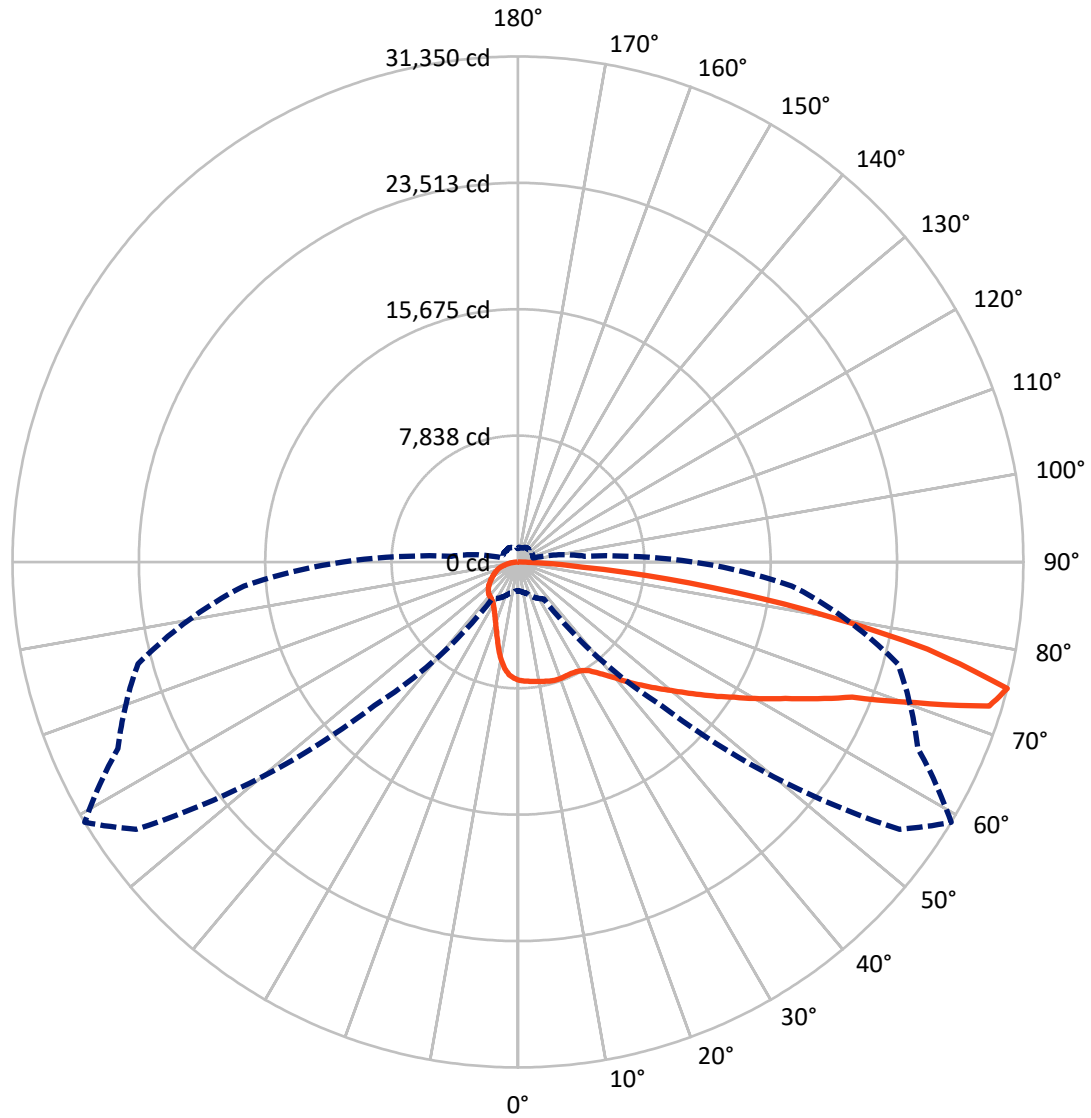
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7499.8	0.0	7499.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	32487.2	0.0	32487.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	39987.0	0.0	39987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.1	1.6
10°-20°	1682.2	4.2
20°-30°	2555.1	6.4
30°-40°	3798.0	9.5
40°-50°	5648.4	14.1
50°-60°	7667.0	19.2
60°-70°	9360.1	23.4
70°-80°	7345.7	18.4
80°-90°	1272.5	3.2
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°	39987.0	100.0
0°-180°	39987.0	100.0

**Coefficient of Utilization**



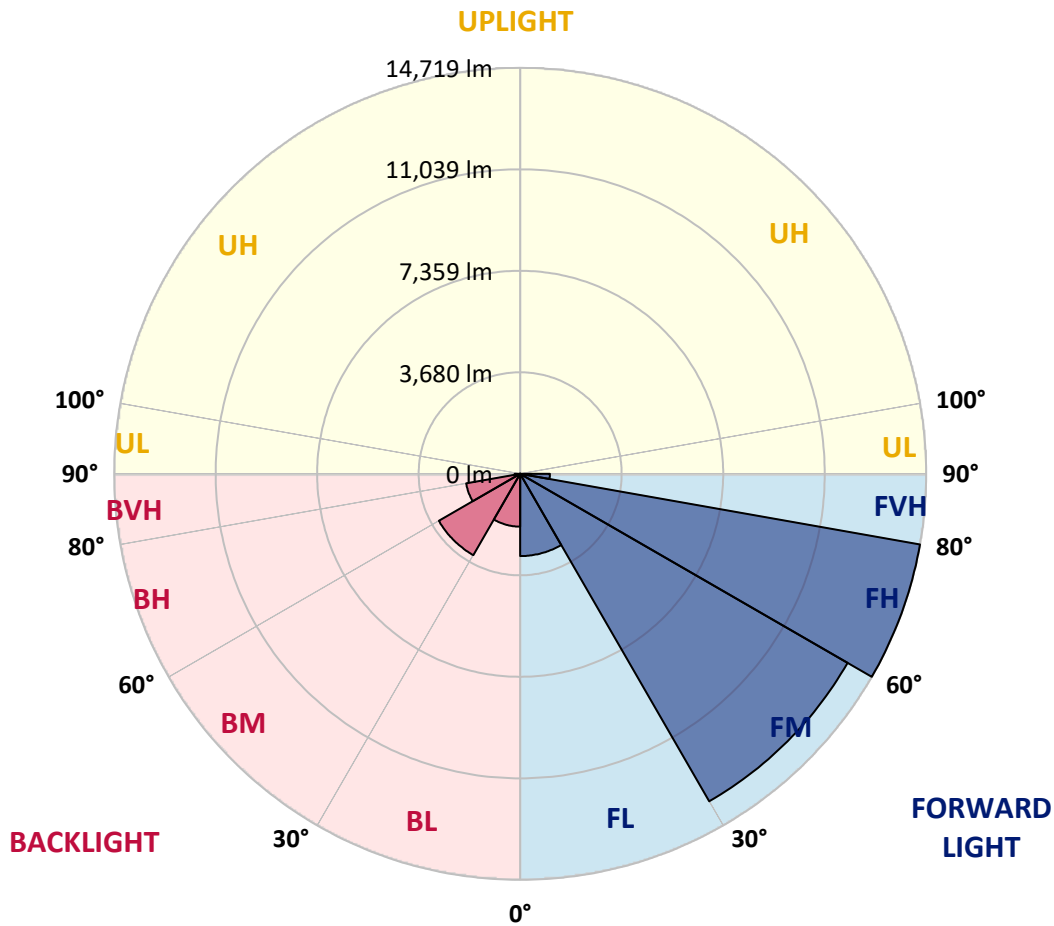
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2981.5	7.5			
FM (30°-60°)	13709.2	34.3			
FH (60°-80°)	14718.8	36.8			G5
FVH (80°-90°)	1077.7	2.7			G5
BL (0°-30°)	1913.9	4.8	B3/2500		
BM (30°-60°)	3404.2	8.5	B3/5000		
BH (60°-80°)	1987.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	194.8	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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5
2.5°	7401.9	7376.1	7401.9	7391.2	7386.8	7378.2	7380.4	7395.5	7386.8	7397.6
5°	7352.4	7337.4	7363.2	7356.7	7384.7	7389.0	7417.0	7434.2	7444.9	7447.1
7.5°	7270.7	7255.6	7292.2	7322.3	7382.5	7399.8	7457.8	7485.8	7500.9	7526.7
10°	6971.7	6965.2	7055.6	7169.6	7311.6	7399.8	7488.0	7535.3	7558.9	7627.8
12.5°	6442.5	6451.1	6569.4	6788.8	7072.8	7356.7	7522.4	7591.2	7627.8	7713.8
15°	5937.0	5934.9	6063.9	6298.4	6696.3	7167.4	7539.6	7657.9	7720.3	7847.2
17.5°	5644.5	5635.9	5726.2	5904.7	6274.7	6877.0	7496.6	7694.5	7827.8	7987.0
20°	5590.7	5573.5	5620.8	5709.0	5971.4	6558.7	7384.7	7694.5	7913.9	8120.4
22.5°	5786.4	5758.5	5739.1	5728.4	5844.5	6296.2	7257.8	7668.6	8040.8	8311.8
25°	6180.1	6137.1	6038.1	5941.3	5906.9	6177.9	7145.9	7662.2	8230.1	8569.9
27.5°	6816.8	6763.0	6563.0	6330.7	6122.0	6238.2	7096.5	7700.9	8438.7	8843.1
30°	7606.3	7548.2	7296.5	6939.4	6565.1	6461.9	7158.8	7814.9	8705.5	9206.7
32.5°	8314.0	8249.4	8034.3	7670.8	7165.3	6849.1	7356.7	8032.2	9124.9	9712.2
35°	8942.1	8866.8	8673.2	8337.6	7901.0	7393.3	7713.8	8417.2	9720.8	10533.9
37.5°	9557.3	9469.1	9258.3	8903.4	8597.9	8118.2	8206.4	8912.0	10512.4	11532.0
40°	10245.6	10118.7	9862.8	9512.1	9215.3	8967.9	8853.9	9518.6	11316.9	12646.3
42.5°	10912.5	10792.0	10486.6	10187.6	9815.4	9744.4	9604.6	10228.4	12196.7	13870.2
45°	11631.0	11486.8	11116.8	10738.2	10503.8	10260.7	10331.7	10938.3	13059.3	15117.9
47.5°	12304.2	12142.9	11706.2	11284.6	11155.6	10695.2	10998.5	11719.1	13956.3	16382.7
50°	12667.8	12508.6	12145.1	11764.3	11663.2	11230.8	11721.3	12577.4	14896.3	17643.3
52.5°	12971.1	12799.0	12323.6	12112.8	12082.7	11813.8	12611.9	13558.3	15836.3	18757.5
55°	13293.7	13102.3	12495.7	12306.4	12444.1	12467.7	13668.0	14670.4	16830.1	19843.8
57.5°	13665.9	13422.8	12661.3	12469.9	12796.8	13233.5	14881.3	15823.4	17806.7	20850.5
60°	14016.5	13771.3	12979.7	12730.2	13177.6	14121.9	16273.0	17219.5	18912.4	21747.5
62.5°	14085.3	13883.1	13233.5	13231.4	13693.8	15158.7	17920.7	18628.5	19878.2	22633.8
65°	12893.6	12766.7	12381.7	13212.0	14433.8	16651.6	19755.6	20431.1	21106.5	23408.2
67.5°	9813.3	9830.5	9802.5	11405.1	13835.8	18796.2	22412.2	22360.6	22623.0	24277.2
70°	4487.2	4588.3	5246.5	7873.0	11084.6	19043.6	26804.8	26135.8	24526.7	25402.2
72.5°	2424.3	2501.7	2770.6	3813.9	6664.1	16931.2	30087.3	30562.7	27058.6	26159.4
75°	1779.0	1822.0	2009.1	2424.3	2798.6	12583.9	28910.7	31350.0	27374.8	24393.4
77.5°	1331.5	1350.9	1503.6	1920.9	1432.6	6634.0	23100.6	25963.7	23434.0	20041.7
80°	965.8	987.4	1101.4	1441.2	1004.6	2426.4	15862.1	18224.0	16049.3	12775.3
82.5°	666.8	675.4	724.9	980.9	701.3	942.2	9000.2	10686.6	8959.3	4482.9
85°	402.3	413.0	434.5	572.2	398.0	447.4	3884.9	4018.2	2678.1	1071.2
87.5°	165.6	176.4	193.6	240.9	157.0	124.8	641.0	804.5	501.2	314.1
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°
7339.5	0°	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5	7339.5
7361.0	2.5°	7350.3	7335.2	7294.4	7238.4	7186.8	7122.3	7094.3	7070.6	7049.1	7008.3
7419.1	5°	7395.5	7354.6	7244.9	7102.9	6941.6	6765.2	6593.1	6474.8	6373.7	6298.4
7485.8	7.5°	7464.3	7386.8	7186.8	6896.4	6526.4	6147.8	5805.8	5562.7	5379.9	5313.2
7580.4	10°	7535.3	7442.8	7094.3	6582.3	5943.5	5360.5	4906.6	4657.1	4510.8	4463.5
7692.3	12.5°	7619.2	7483.6	6950.2	6145.7	5291.7	4652.8	4257.0	4110.7	4035.4	4009.6
7830.0	15°	7741.8	7518.1	6732.9	5599.3	4670.0	4136.5	3880.6	3779.5	3740.7	3738.6
7971.9	17.5°	7834.3	7524.5	6395.2	5014.2	4192.5	3824.6	3613.8	3575.1	3600.9	3639.6
8111.8	20°	7937.5	7466.4	5952.1	4480.7	3856.9	3551.5	3463.3	3489.1	3551.5	3607.4
8296.8	22.5°	8010.7	7361.0	5416.4	4065.6	3566.5	3394.4	3390.1	3443.9	3478.3	3506.3
8514.0	25°	8075.2	7182.5	4848.6	3717.1	3327.7	3299.8	3347.1	3329.9	3306.2	3329.9
8731.3	27.5°	8122.5	6900.7	4340.9	3411.6	3160.0	3235.2	3207.3	3168.6	3166.4	3179.3
8987.3	30°	8107.5	6524.3	3923.6	3121.2	3041.6	3114.8	3048.1	3041.6	3035.2	3041.6
9372.3	32.5°	8107.5	6096.2	3603.1	2921.2	2966.4	2938.4	2931.9	2916.9	2891.1	2888.9
9895.0	35°	8152.6	5668.1	3327.7	2813.6	2904.0	2837.3	2841.6	2805.0	2751.2	2725.4
10587.7	37.5°	8245.1	5324.0	3054.6	2762.0	2794.3	2792.1	2774.9	2712.5	2617.9	2536.1
11452.4	40°	8468.8	5222.9	2867.4	2738.3	2742.6	2768.5	2723.3	2602.8	2387.7	2254.3
12330.1	42.5°	8819.5	5392.8	2826.5	2680.3	2708.2	2734.0	2645.8	2366.2	2213.5	2133.9
13250.7	45°	9264.8	5689.6	2914.7	2596.4	2626.5	2671.7	2409.2	2275.9	2207.0	2209.2
14162.8	47.5°	9828.3	6001.5	3078.2	2523.2	2508.2	2534.0	2252.2	2170.5	2075.8	2099.5
15038.3	50°	10480.1	6317.8	3233.1	2424.3	2377.0	2293.1	2151.1	2073.7	1953.2	1897.3
15883.7	52.5°	11185.7	6623.2	3295.5	2303.8	2235.0	2138.2	2082.3	1987.6	1841.3	1748.8
16681.7	55°	11854.7	6900.7	3226.6	2159.7	2093.0	2017.7	2009.1	1951.0	1794.0	1664.9
17391.6	57.5°	12487.1	7133.0	3054.6	2013.4	1948.9	1903.7	1961.8	1933.8	1735.9	1570.3
18062.7	60°	13022.7	7292.2	2805.0	1865.0	1819.8	1796.2	1884.4	1875.8	1654.2	1469.2
18665.0	62.5°	13448.6	7354.6	2529.7	1723.0	1712.3	1669.2	1776.8	1776.8	1550.9	1370.2
19194.2	65°	13782.0	7294.4	2250.0	1583.2	1604.7	1540.2	1645.6	1632.7	1441.2	1282.1
19802.9	67.5°	14076.7	7096.5	1940.3	1445.5	1495.0	1413.3	1507.9	1477.8	1320.8	1193.9
20330.0	70°	14208.0	6636.1	1587.5	1307.9	1368.1	1288.5	1370.2	1314.3	1185.3	1099.2
19751.3	72.5°	13153.9	5515.4	1249.8	1163.7	1215.4	1150.8	1221.8	1157.3	1039.0	1000.3
17056.0	75°	10882.4	4138.7	961.5	1006.7	1045.4	996.0	1043.3	996.0	888.4	916.4
12598.9	77.5°	7903.1	2794.3	735.7	841.1	858.3	832.5	873.3	819.6	722.8	716.3
6279.0	80°	3930.0	1637.0	576.5	664.7	658.2	641.0	688.3	662.5	580.8	615.2
1695.1	82.5°	1137.9	701.3	419.5	466.8	453.9	458.2	492.6	505.5	757.2	750.7
527.0	85°	357.1	275.3	251.7	260.3	247.4	253.8	290.4	576.5	533.5	311.9
163.5	87.5°	92.5	94.6	62.4	66.7	68.8	81.7	92.5	350.6	167.8	109.7
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>
7339.5
6988.9
6236.0
5197.0
4390.4
4016.1
3747.2
3654.7
3626.7
3521.3
3344.9
3200.8
3065.3
2916.9
2751.2
2564.1
2271.6
2133.9
2219.9
2159.7
1912.3
1746.7
1664.9
1561.7
1462.7
1363.8
1273.4
1185.3
1082.0
968.0
<i>836.8</i>
684.0
608.8
767.9
337.7
116.2
0.0

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