

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: P950256

Luminaire Tested: **GALN-SB4D-735-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950256  
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-SB4D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

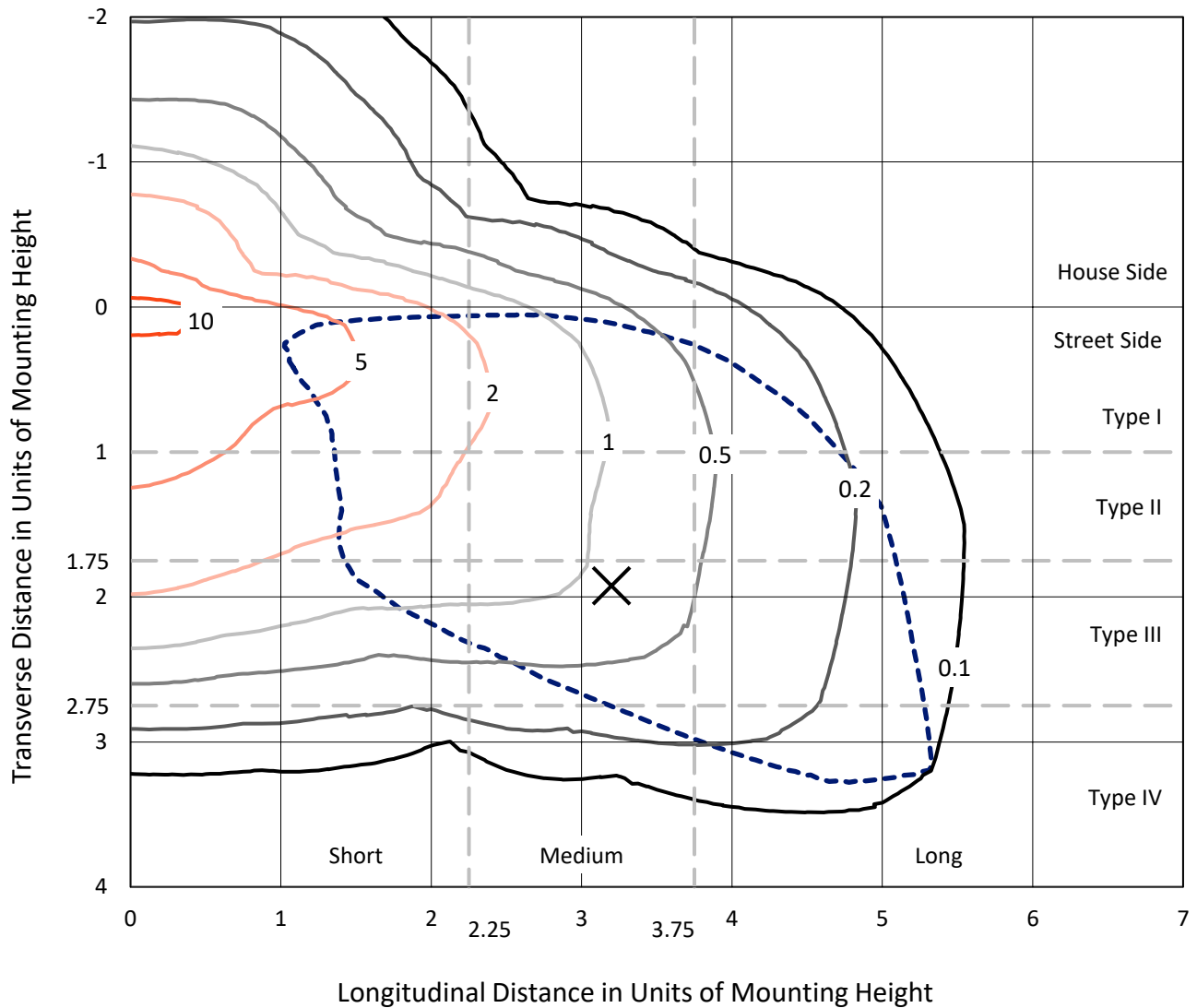
Lumens per Lamp: N/A  
Luminaire Lumens: 39859 lumens  
Efficiency: N/A  
Efficacy: 135.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

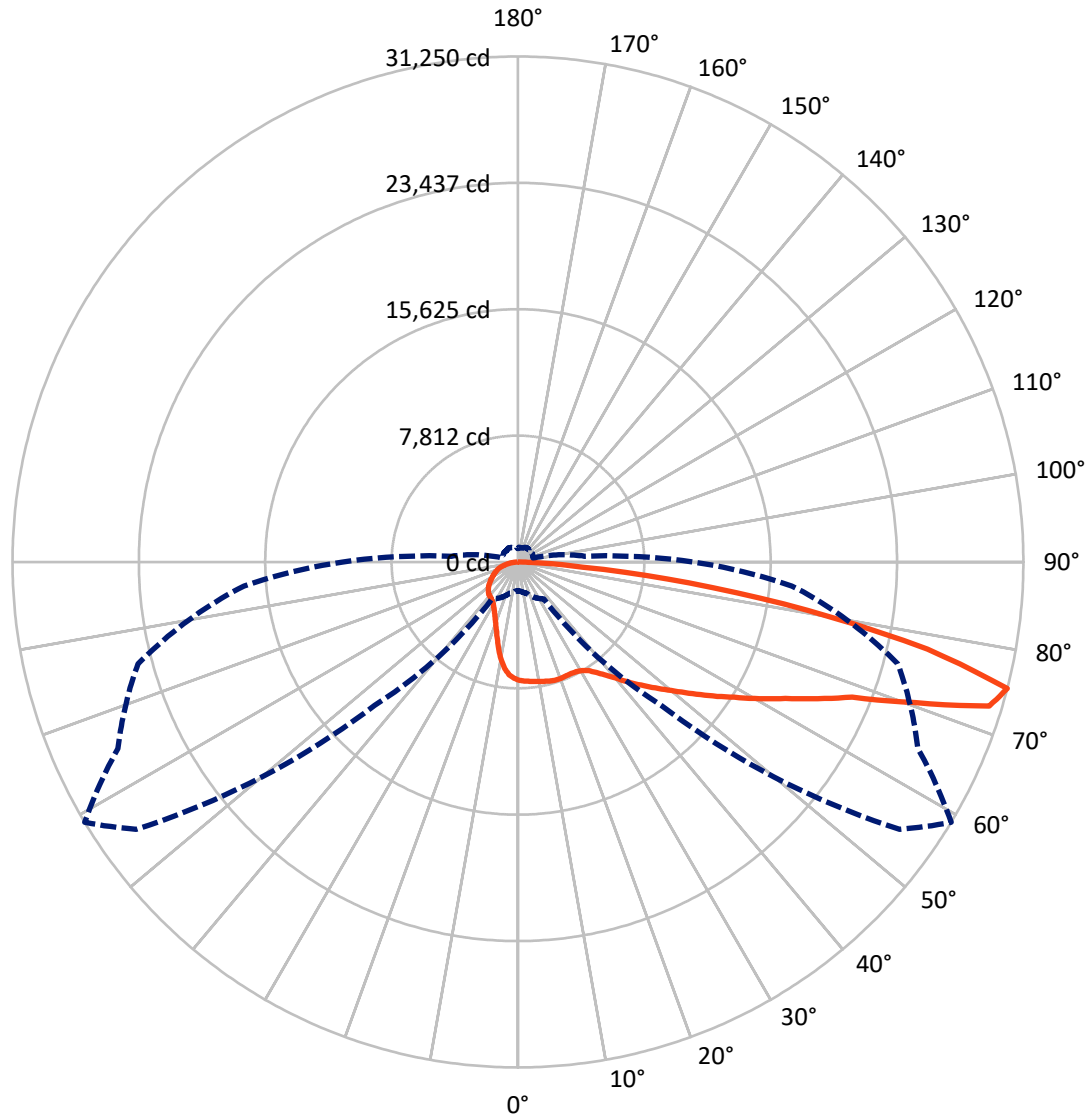
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	7475.8	0.0	7475.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	32383.2	0.0	32383.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	39859.0	0.0	39859.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.0	1.6
10°-20°	1676.8	4.2
20°-30°	2546.9	6.4
30°-40°	3785.9	9.5
40°-50°	5630.3	14.1
50°-60°	7642.4	19.2
60°-70°	9330.2	23.4
70°-80°	7322.2	18.4
80°-90°	1268.4	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°	39859.0	100.0
0°-180°	39859.0	100.0



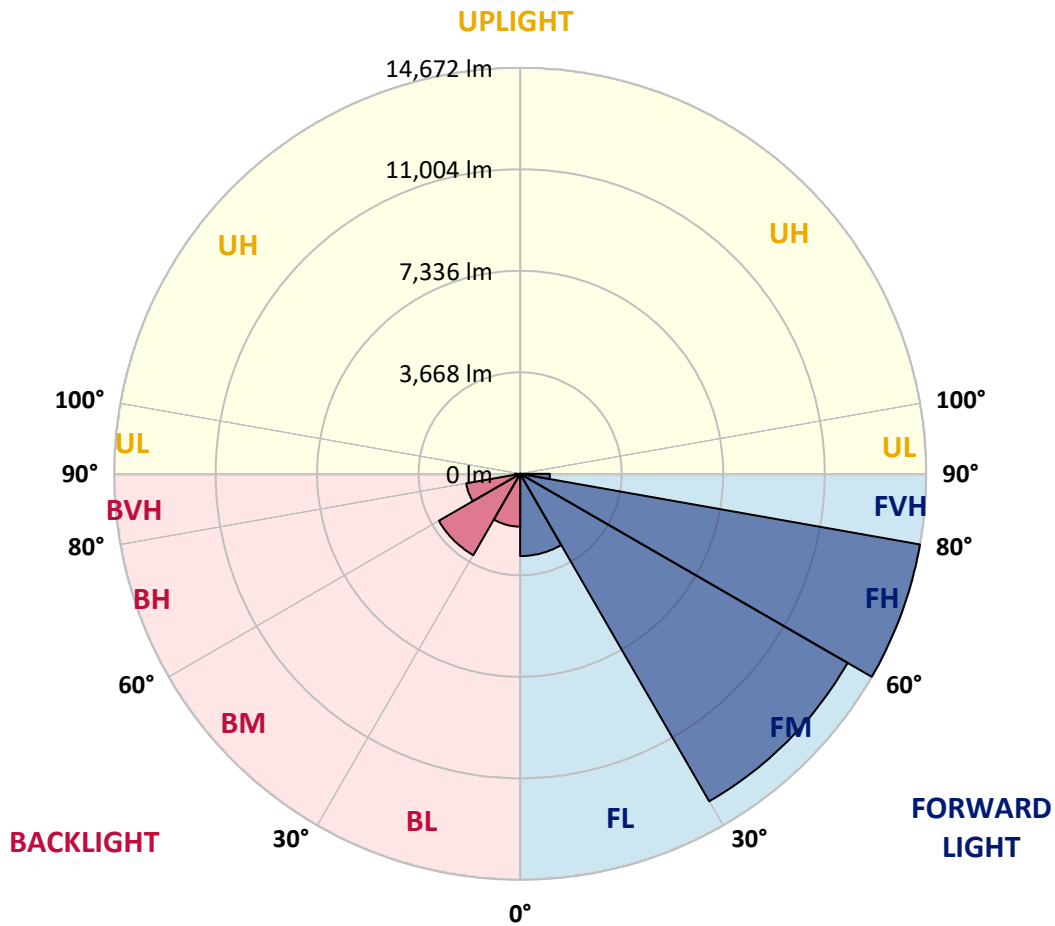
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2971.9	7.5			
FM (30°-60°)	13665.3	34.3			
FH (60°-80°)	14671.7	36.8			G5
FVH (80°-90°)	1074.2	2.7			G5
BL (0°-30°)	1907.7	4.8	B3/2500		
BM (30°-60°)	3393.3	8.5	B3/5000		
BH (60°-80°)	1980.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	194.2	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°	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0
2.5°	7378.2	7352.5	7378.2	7367.5	7363.2	7354.6	7356.8	7371.8	7363.2	7373.9
5°	7328.9	7313.9	7339.6	7333.2	7361.1	7365.3	7393.2	7410.4	7421.1	7423.2
7.5°	7247.4	7232.4	7268.9	7298.9	7358.9	7376.1	7434.0	7461.8	7476.8	7502.6
10°	6949.4	6942.9	7033.0	7146.6	7288.2	7376.1	7464.0	7511.2	7534.7	7603.4
12.5°	6421.9	6430.5	6548.4	6767.1	7050.1	7333.2	7498.3	7566.9	7603.4	7689.1
15°	5918.0	5915.9	6044.5	6278.2	6674.9	7144.5	7515.4	7633.4	7695.6	7822.1
17.5°	5626.4	5617.8	5707.9	5885.8	6254.6	6855.0	7472.6	7669.8	7802.8	7961.4
20°	5572.8	5555.6	5602.8	5690.7	5952.3	6537.7	7361.1	7669.8	7888.5	8094.4
22.5°	5767.9	5740.0	5720.7	5710.0	5825.8	6276.1	7234.6	7644.1	8015.0	8285.2
25°	6160.3	6117.4	6018.8	5922.3	5888.0	6158.2	7123.1	7637.7	8203.7	8542.5
27.5°	6795.0	6741.4	6542.0	6310.4	6102.4	6218.2	7073.7	7676.3	8411.7	8814.8
30°	7581.9	7524.0	7273.1	6917.2	6544.1	6441.2	7135.9	7789.9	8677.6	9177.2
32.5°	8287.4	8223.0	8008.6	7646.2	7142.3	6827.2	7333.2	8006.5	9095.7	9681.1
35°	8913.5	8838.4	8645.4	8310.9	7875.7	7369.6	7689.1	8390.3	9689.7	10500.2
37.5°	9526.7	9438.8	9228.7	8874.9	8570.4	8092.2	8180.1	8883.4	10478.7	11495.1
40°	10212.9	10086.3	9831.2	9481.7	9185.8	8939.2	8825.6	9488.1	11280.7	12605.8
42.5°	10877.6	10757.5	10453.0	10155.0	9784.0	9713.3	9573.9	10195.7	12157.6	13825.8
45°	11593.7	11450.1	11081.3	10703.9	10470.2	10227.9	10298.6	10903.3	13017.5	15069.5
47.5°	12264.9	12104.0	11668.8	11248.5	11119.9	10661.0	10963.3	11681.6	13911.6	16330.3
50°	12627.2	12468.6	12106.2	11726.7	11625.9	11194.9	11683.8	12537.2	14848.6	17586.8
52.5°	12929.6	12758.0	12284.2	12074.0	12044.0	11776.0	12571.5	13514.9	15785.6	18697.5
55°	13251.2	13060.4	12455.7	12267.0	12404.2	12427.8	13624.3	14623.5	16776.3	19780.3
57.5°	13622.1	13379.8	12620.8	12430.0	12755.9	13191.2	14833.6	15772.8	17749.7	20783.8
60°	13971.6	13727.2	12938.1	12689.4	13135.4	14076.7	16220.9	17164.4	18851.9	21677.9
62.5°	14040.3	13838.7	13191.2	13189.0	13650.0	15110.2	17863.4	18568.8	19814.6	22561.3
65°	12852.4	12725.9	12342.0	13169.7	14387.6	16598.3	19692.4	20365.7	21038.9	23333.2
67.5°	9781.9	9799.0	9771.1	11368.6	13791.5	18736.1	22340.5	22289.0	22550.6	24199.5
70°	4472.8	4573.6	5229.7	7847.8	11049.1	18982.7	26719.0	26052.1	24448.2	25320.9
72.5°	2416.5	2493.7	2761.7	3801.7	6642.7	16877.0	29991.0	30464.9	26972.0	26075.7
75°	1773.3	1816.1	2002.7	2416.5	2789.6	12543.6	28818.1	31249.7	27287.2	24315.3
77.5°	1327.3	1346.6	1498.8	1914.8	1428.0	6612.7	23026.6	25880.6	23359.0	19977.6
80°	962.7	984.2	1097.8	1436.6	1001.3	2418.7	15811.4	18165.7	15997.9	12734.4
82.5°	664.7	673.3	722.6	977.8	699.0	939.2	8971.4	10652.4	8930.6	4468.5
85°	401.0	411.7	433.1	570.4	396.7	446.0	3872.4	4005.4	2669.5	1067.8
87.5°	165.1	175.8	193.0	240.2	156.5	124.4	639.0	801.9	499.6	313.1
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°
7316.0	0°	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0	7316.0
7337.5	2.5°	7326.8	7311.7	7271.0	7215.3	7163.8	7099.5	7071.6	7048.0	7026.6	6985.8
7395.4	5°	7371.8	7331.0	7221.7	7080.2	6919.4	6743.5	6572.0	6454.1	6353.3	6278.2
7461.8	7.5°	7440.4	7363.2	7163.8	6874.3	6505.5	6128.1	5787.2	5544.9	5362.7	5296.2
7556.2	10°	7511.2	7419.0	7071.6	6561.3	5924.4	5343.4	4890.9	4642.2	4496.4	4449.2
7667.7	12.5°	7594.8	7459.7	6927.9	6126.0	5274.7	4637.9	4243.4	4097.6	4022.5	3996.8
7804.9	15°	7717.0	7494.0	6711.4	5581.4	4655.1	4123.3	3868.1	3767.4	3728.8	3726.6
7946.4	17.5°	7809.2	7500.4	6374.7	4998.1	4179.1	3812.4	3602.3	3563.7	3589.4	3628.0
8085.8	20°	7912.1	7442.5	5933.0	4466.4	3844.6	3540.1	3452.2	3477.9	3540.1	3595.8
8270.2	22.5°	7985.0	7337.5	5399.1	4052.5	3555.1	3383.6	3379.3	3432.9	3467.2	3495.1
8486.8	25°	8049.3	7159.5	4833.0	3705.2	3317.1	3289.2	3336.4	3319.2	3295.6	3319.2
8703.3	27.5°	8096.5	6878.6	4327.0	3400.7	3149.8	3224.9	3197.0	3158.4	3156.3	3169.1
8958.5	30°	8081.5	6503.4	3911.0	3111.2	3031.9	3104.8	3038.3	3031.9	3025.5	3031.9
9342.3	32.5°	8081.5	6076.7	3591.5	2911.8	2956.9	2929.0	2922.6	2907.5	2881.8	2879.7
9863.3	35°	8126.5	5650.0	3317.1	2804.6	2894.7	2828.2	2832.5	2796.0	2742.4	2716.7
10553.8	37.5°	8218.7	5306.9	3044.8	2753.2	2785.3	2783.2	2766.0	2703.8	2609.5	2528.0
11415.8	40°	8441.7	5206.1	2858.2	2729.6	2733.9	2759.6	2714.6	2594.5	2380.1	2247.1
12290.6	42.5°	8791.2	5375.5	2817.5	2671.7	2699.6	2725.3	2637.4	2358.6	2206.4	2127.1
13208.3	45°	9235.1	5671.4	2905.4	2588.1	2618.1	2663.1	2401.5	2268.6	2200.0	2202.1
14117.5	47.5°	9796.9	5982.3	3068.4	2515.2	2500.1	2525.9	2245.0	2163.5	2069.2	2092.7
14990.1	50°	10446.6	6297.5	3222.7	2416.5	2369.3	2285.7	2144.2	2067.0	1946.9	1891.2
15832.8	52.5°	11149.9	6602.0	3284.9	2296.4	2227.8	2131.3	2075.6	1981.2	1835.4	1743.2
16628.3	55°	11816.7	6878.6	3216.3	2152.8	2086.3	2011.3	2002.7	1944.8	1788.3	1659.6
17335.9	57.5°	12447.1	7110.2	3044.8	2007.0	1942.7	1897.6	1955.5	1927.6	1730.4	1565.3
18004.9	60°	12981.0	7268.9	2796.0	1859.0	1814.0	1790.4	1878.3	1869.7	1648.9	1464.5
18605.3	62.5°	13405.6	7331.0	2521.6	1717.5	1706.8	1663.9	1771.1	1771.1	1546.0	1365.9
19132.7	65°	13737.9	7271.0	2242.8	1578.1	1599.6	1535.3	1640.3	1627.5	1436.6	1277.9
19739.6	67.5°	14031.7	7073.7	1934.1	1440.9	1490.2	1408.7	1503.1	1473.1	1316.5	1190.0
20264.9	70°	14162.5	6614.9	1582.4	1303.7	1363.7	1284.4	1365.9	1310.1	1181.5	1095.7
19688.1	72.5°	13111.8	5497.7	1245.8	1160.0	1211.5	1147.2	1217.9	1153.6	1035.7	997.1
17001.4	75°	10847.5	4125.5	958.5	1003.5	1042.1	992.8	1039.9	992.8	885.6	913.4
12558.6	77.5°	7877.8	2785.3	733.3	838.4	855.5	829.8	870.5	816.9	720.5	714.0
6258.9	80°	3917.5	1631.7	574.6	662.6	656.1	639.0	686.1	660.4	578.9	613.2
1689.6	82.5°	1134.3	699.0	418.1	465.3	452.4	456.7	491.0	503.9	754.8	748.3
525.3	85°	355.9	274.5	250.9	259.4	246.6	253.0	289.5	574.6	531.8	310.9
163.0	87.5°	92.2	94.3	62.2	66.5	68.6	81.5	92.2	349.5	167.2	109.4
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>
7316.0
6966.5
6216.1
5180.4
4376.3
4003.2
3735.2
3643.0
3615.1
3510.1
3334.2
3190.6
3055.5
2907.5
2742.4
2555.9
2264.3
2127.1
2212.8
2152.8
1906.2
1741.1
1659.6
1556.7
1458.1
1359.4
1269.4
1181.5
1078.5
964.9
<i>834.1</i>
681.9
606.8
765.5
336.6
115.8
0.0

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