

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: P949311

Luminaire Tested: **GALN-SB4A-835-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949311  
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-SB4A-835-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

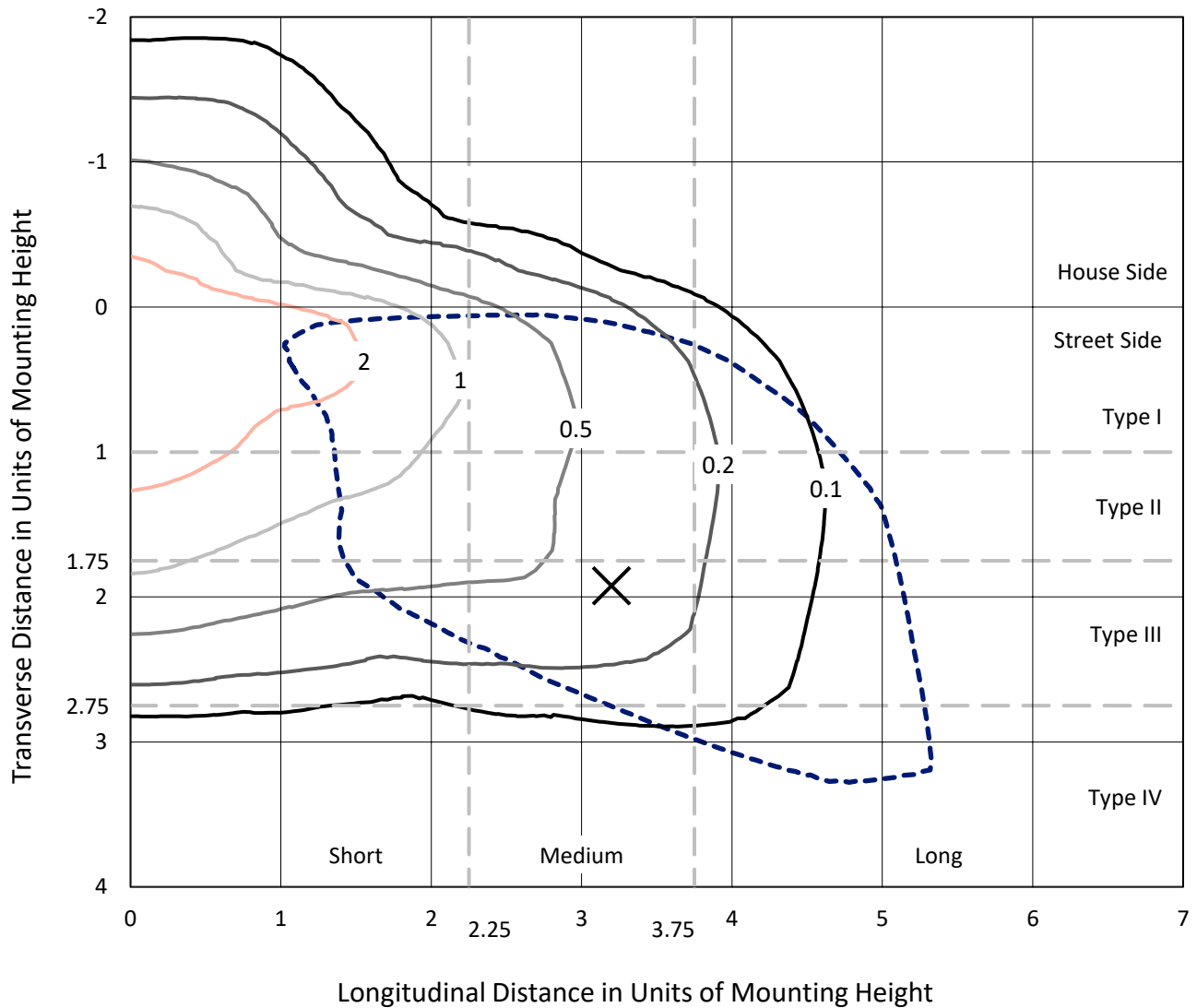
Lumens per Lamp: N/A  
Luminaire Lumens: 16297 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

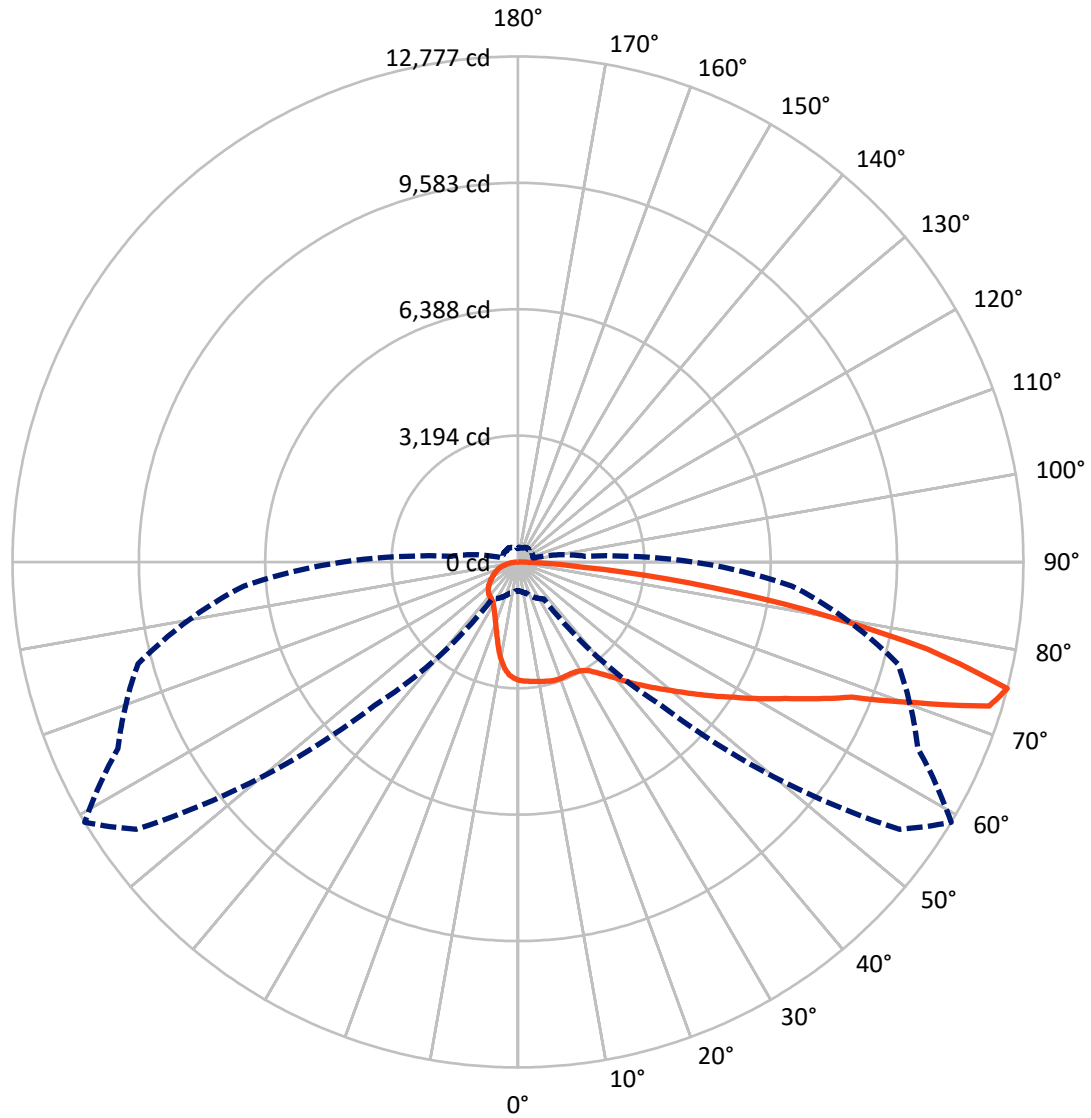
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	3056.6	0.0	3056.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13240.4	0.0	13240.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	16297.0	0.0	16297.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.2	1.6
10°-20°	685.6	4.2
20°-30°	1041.3	6.4
30°-40°	1547.9	9.5
40°-50°	2302.0	14.1
50°-60°	3124.7	19.2
60°-70°	3814.8	23.4
70°-80°	2993.8	18.4
80°-90°	518.6	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°	16297.0	100.0
0°-180°	16297.0	100.0

**Coefficient of Utilization**



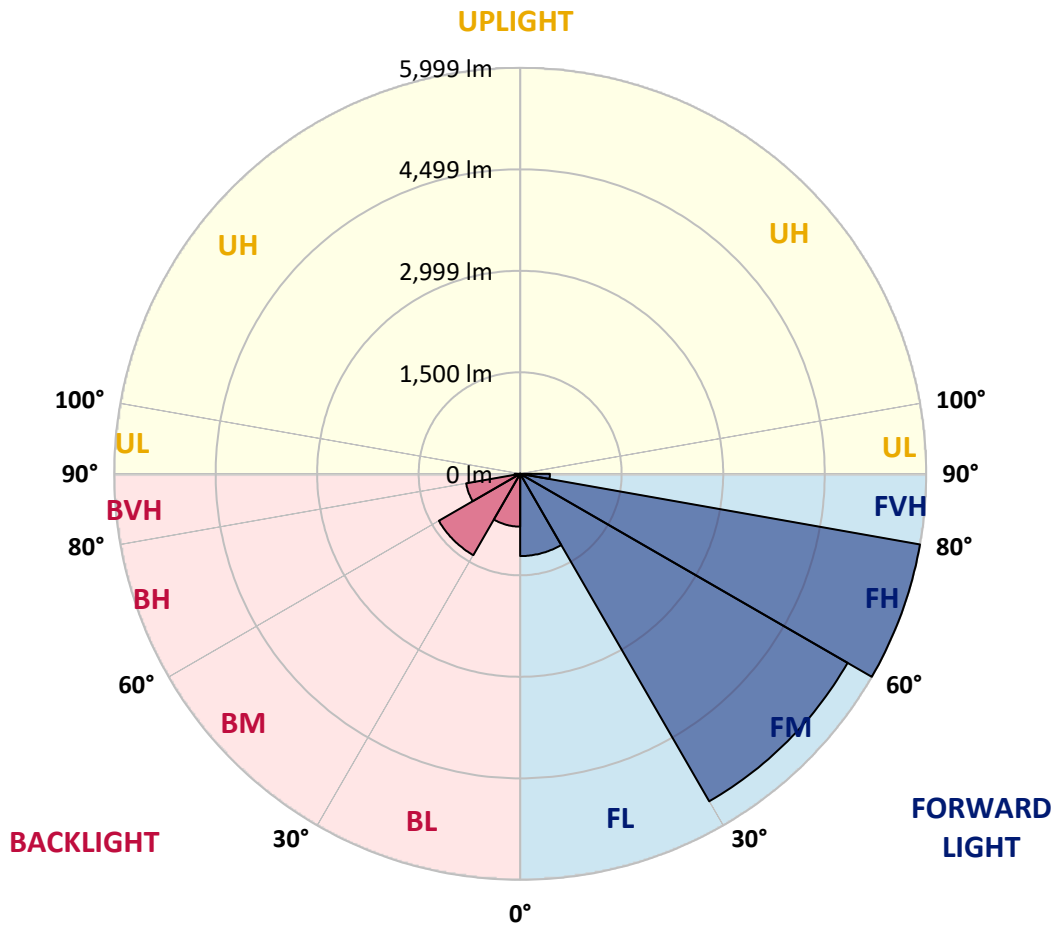
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.1	7.5			
FM (30°-60°)	5587.3	34.3			
FH (60°-80°)	5998.8	36.8			G3/7500
FVH (80°-90°)	439.2	2.7			G3/500
BL (0°-30°)	780.0	4.8	B2/1000		
BM (30°-60°)	1387.4	8.5	B2/2500		
BH (60°-80°)	809.8	5.0	B2/1000		G2/1000
BVH (80°-90°)	79.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3
2.5°	3016.7	3006.2	3016.7	3012.3	3010.6	3007.1	3007.9	3014.1	3010.6	3014.9
5°	2996.5	2990.4	3000.9	2998.3	3009.7	3011.4	3022.8	3029.9	3034.2	3035.1
7.5°	2963.2	2957.1	2972.0	2984.3	3008.8	3015.8	3039.5	3050.9	3057.0	3067.6
10°	2841.4	2838.7	2875.6	2922.0	2979.9	3015.8	3051.8	3071.1	3080.7	3108.8
12.5°	2625.7	2629.2	2677.4	2766.8	2882.6	2998.3	3065.8	3093.9	3108.8	3143.8
15°	2419.7	2418.8	2471.4	2567.0	2729.1	2921.1	3072.8	3121.0	3146.5	3198.2
17.5°	2300.4	2296.9	2333.8	2406.5	2557.3	2802.8	3055.3	3135.9	3190.3	3255.2
20°	2278.5	2271.5	2290.8	2326.7	2433.7	2673.0	3009.7	3135.9	3225.4	3309.5
22.5°	2358.3	2346.9	2339.0	2334.6	2382.0	2566.1	2958.0	3125.4	3277.1	3387.5
25°	2518.7	2501.2	2460.9	2421.4	2407.4	2517.9	2912.4	3122.8	3354.2	3492.7
27.5°	2778.2	2756.3	2674.8	2580.1	2495.1	2542.4	2892.2	3138.6	3439.3	3604.1
30°	3100.0	3076.3	2973.7	2828.2	2675.7	2633.6	2917.6	3185.0	3548.0	3752.2
32.5°	3388.4	3362.1	3274.5	3126.3	2920.3	2791.4	2998.3	3273.6	3718.9	3958.3
35°	3644.4	3613.7	3534.8	3398.1	3220.1	3013.2	3143.8	3430.5	3961.8	4293.2
37.5°	3895.1	3859.2	3773.3	3628.6	3504.1	3308.6	3344.6	3632.1	4284.4	4700.0
40°	4175.7	4124.0	4019.6	3876.7	3755.8	3654.9	3608.5	3879.4	4612.3	5154.1
42.5°	4447.5	4398.4	4273.9	4152.0	4000.4	3971.4	3914.4	4168.7	4970.9	5652.9
45°	4740.3	4681.5	4530.8	4376.5	4280.9	4181.8	4210.8	4458.0	5322.4	6161.4
47.5°	5014.7	4948.9	4771.0	4599.1	4546.5	4358.9	4482.5	4776.2	5688.0	6676.9
50°	5162.8	5098.0	4949.8	4794.6	4753.4	4577.2	4777.1	5126.0	6071.1	7190.6
52.5°	5286.5	5216.3	5022.6	4936.7	4924.4	4814.8	5140.1	5525.8	6454.2	7644.8
55°	5418.0	5339.9	5092.7	5015.6	5071.7	5081.3	5570.5	5979.0	6859.2	8087.5
57.5°	5569.6	5470.6	5160.2	5082.2	5215.4	5393.4	6065.0	6449.0	7257.3	8497.8
60°	5712.5	5612.6	5290.0	5188.3	5370.6	5755.5	6632.2	7017.9	7707.9	8863.4
62.5°	5740.6	5658.2	5393.4	5392.5	5581.0	6178.1	7303.7	7592.2	8101.5	9224.6
65°	5254.9	5203.2	5046.2	5384.7	5882.6	6786.5	8051.6	8326.8	8602.1	9540.2
67.5°	3999.5	4006.5	3995.1	4648.2	5638.9	7660.5	9134.3	9113.2	9220.2	9894.4
70°	1828.8	1870.0	2138.3	3208.7	4517.6	7761.4	10924.5	10651.8	9996.1	10352.9
72.5°	988.0	1019.6	1129.2	1554.4	2716.0	6900.5	12262.3	12456.1	11027.9	10661.5
75°	725.0	742.6	818.8	988.0	1140.6	5128.7	11782.8	12776.9	11156.8	9941.7
77.5°	542.7	550.6	612.8	782.9	583.9	2703.7	9414.8	10581.7	9550.7	8168.2
80°	393.6	402.4	448.9	587.4	409.4	988.9	6464.7	7427.3	6541.0	5206.7
82.5°	271.8	275.3	295.4	399.8	285.8	384.0	3668.1	4355.4	3651.4	1827.0
85°	163.9	168.3	177.1	233.2	162.2	182.4	1583.3	1637.7	1091.5	436.6
87.5°	67.5	71.9	78.9	98.2	64.0	50.8	261.3	327.9	204.3	128.0
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°
2991.3	0°	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3	2991.3
3000.0	2.5°	2995.7	2989.5	2972.9	2950.1	2929.0	2902.7	2891.3	2881.7	2872.9	2856.3
3023.7	5°	3014.1	2997.4	2952.7	2894.8	2829.1	2757.2	2687.1	2638.8	2597.6	2567.0
3050.9	7.5°	3042.1	3010.6	2929.0	2810.7	2659.9	2505.6	2366.2	2267.1	2192.6	2165.4
3089.5	10°	3071.1	3033.4	2891.3	2682.7	2422.3	2184.7	1999.7	1898.0	1838.4	1819.1
3135.1	12.5°	3105.2	3050.0	2832.6	2504.7	2156.7	1896.3	1735.0	1675.4	1644.7	1634.2
3191.2	15°	3155.2	3064.0	2744.1	2282.0	1903.3	1685.9	1581.6	1540.4	1524.6	1523.7
3249.0	17.5°	3192.9	3066.7	2606.4	2043.6	1708.7	1558.8	1472.8	1457.1	1467.6	1483.4
3306.0	20°	3235.0	3043.0	2425.8	1826.2	1571.9	1447.4	1411.5	1422.0	1447.4	1470.2
3381.4	22.5°	3264.8	3000.0	2207.5	1657.0	1453.6	1383.4	1381.7	1403.6	1417.6	1429.0
3470.0	25°	3291.1	2927.3	1976.1	1514.9	1356.2	1344.8	1364.1	1357.1	1347.5	1357.1
3558.5	27.5°	3310.4	2812.4	1769.2	1390.4	1287.9	1318.5	1307.1	1291.4	1290.5	1295.8
3662.8	30°	3304.3	2659.0	1599.1	1272.1	1239.6	1269.5	1242.3	1239.6	1237.0	1239.6
3819.8	32.5°	3304.3	2484.5	1468.5	1190.5	1209.0	1197.6	1194.9	1188.8	1178.3	1177.4
4032.8	35°	3322.7	2310.1	1356.2	1146.7	1183.5	1156.4	1158.1	1143.2	1121.3	1110.8
4315.1	37.5°	3360.4	2169.8	1244.9	1125.7	1138.8	1137.9	1130.9	1105.5	1066.9	1033.6
4667.5	40°	3451.5	2128.6	1168.6	1116.0	1117.8	1128.3	1109.9	1060.8	973.1	918.8
5025.2	42.5°	3594.4	2197.9	1152.0	1092.4	1103.8	1114.3	1078.3	964.4	902.1	869.7
5400.4	45°	3775.9	2318.9	1187.9	1058.2	1070.4	1088.9	981.9	927.5	899.5	900.4
5772.1	47.5°	4005.6	2446.0	1254.5	1028.4	1022.2	1032.7	917.9	884.6	846.0	855.7
6129.0	50°	4271.3	2574.8	1317.7	988.0	968.7	934.6	876.7	845.1	796.0	773.2
6473.5	52.5°	4558.8	2699.3	1343.1	938.9	910.9	871.4	848.6	810.1	750.4	712.8
6798.8	55°	4831.5	2812.4	1315.0	880.2	853.0	822.3	818.8	795.2	731.2	678.6
7088.1	57.5°	5089.2	2907.1	1244.9	820.6	794.3	775.9	799.5	788.1	707.5	640.0
7361.6	60°	5307.5	2972.0	1143.2	760.1	741.7	732.0	768.0	764.5	674.2	598.8
7607.1	62.5°	5481.1	2997.4	1031.0	702.2	697.8	680.3	724.1	724.1	632.1	558.5
7822.7	65°	5617.0	2972.9	917.0	645.2	654.0	627.7	670.7	665.4	587.4	522.5
8070.8	67.5°	5737.1	2892.2	790.8	589.1	609.3	576.0	614.6	602.3	538.3	486.6
8285.6	70°	5790.6	2704.6	647.0	533.0	557.6	525.1	558.5	535.7	483.1	448.0
8049.8	72.5°	5361.0	2247.8	509.4	474.3	495.3	469.0	498.0	471.7	423.4	407.7
6951.3	75°	4435.2	1686.8	391.9	410.3	426.1	405.9	425.2	405.9	362.1	373.5
5134.8	77.5°	3221.0	1138.8	299.8	342.8	349.8	339.3	355.9	334.0	294.6	291.9
2559.1	80°	1601.7	667.2	235.0	270.9	268.3	261.3	280.5	270.0	236.7	250.7
690.8	82.5°	463.8	285.8	171.0	190.2	185.0	186.7	200.8	206.0	308.6	306.0
214.8	85°	145.5	112.2	102.6	106.1	100.8	103.4	118.4	235.0	217.4	127.1
66.6	87.5°	37.7	38.6	25.4	27.2	28.1	33.3	37.7	142.9	68.4	44.7
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>
2991.3
2848.4
2541.5
2118.1
1789.3
1636.8
1527.2
1489.5
1478.1
1435.1
1363.3
1304.5
1249.3
1188.8
1121.3
1045.0
925.8
869.7
904.7
880.2
779.4
711.9
678.6
636.5
596.2
555.8
519.0
483.1
441.0
394.5
<i>341.0</i>
278.8
248.1
313.0
137.6
47.3
0.0

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