

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: P951936

Luminaire Tested: **GALN-SB5D-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951936
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-SB5D-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 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: 36405 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

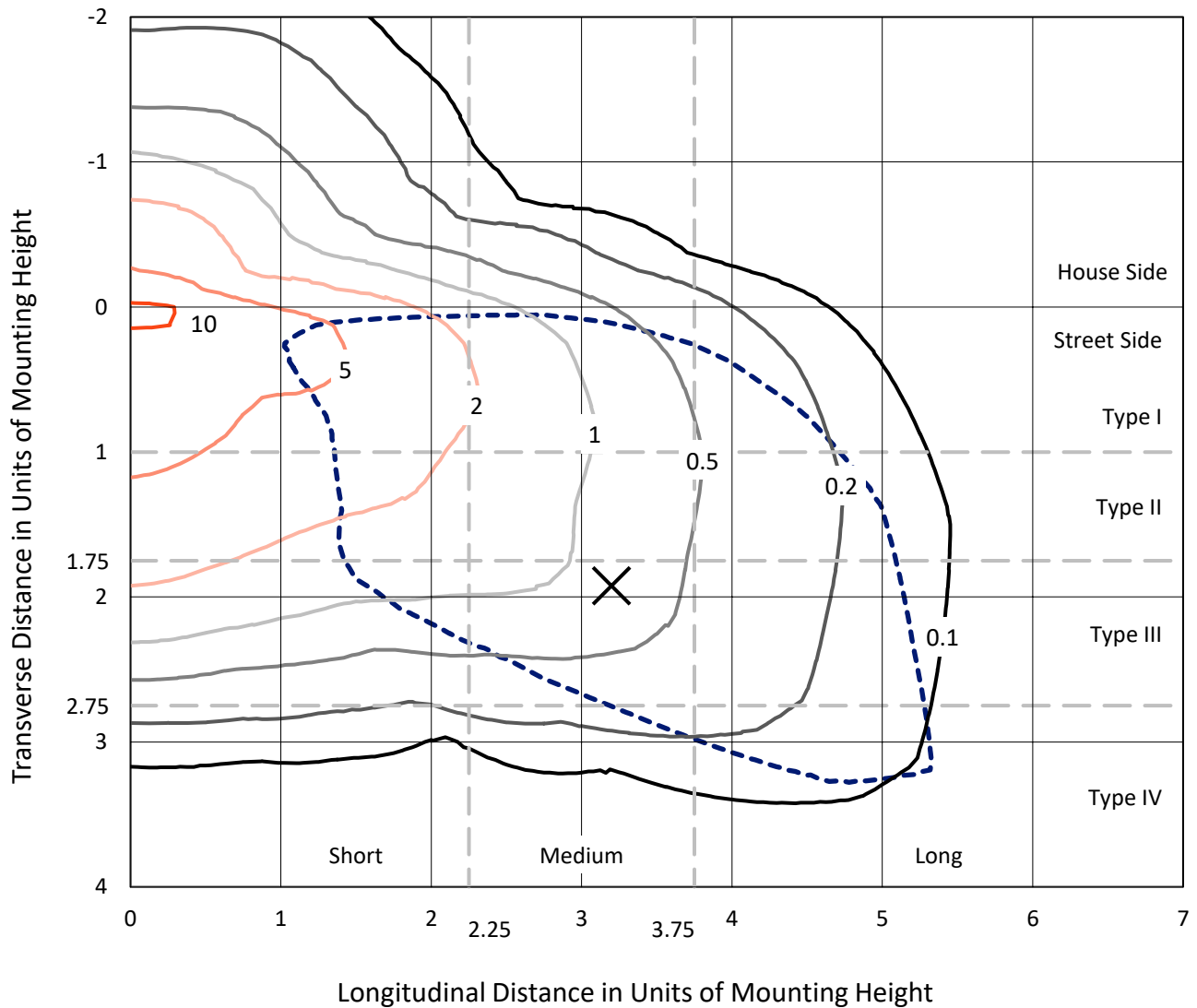
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

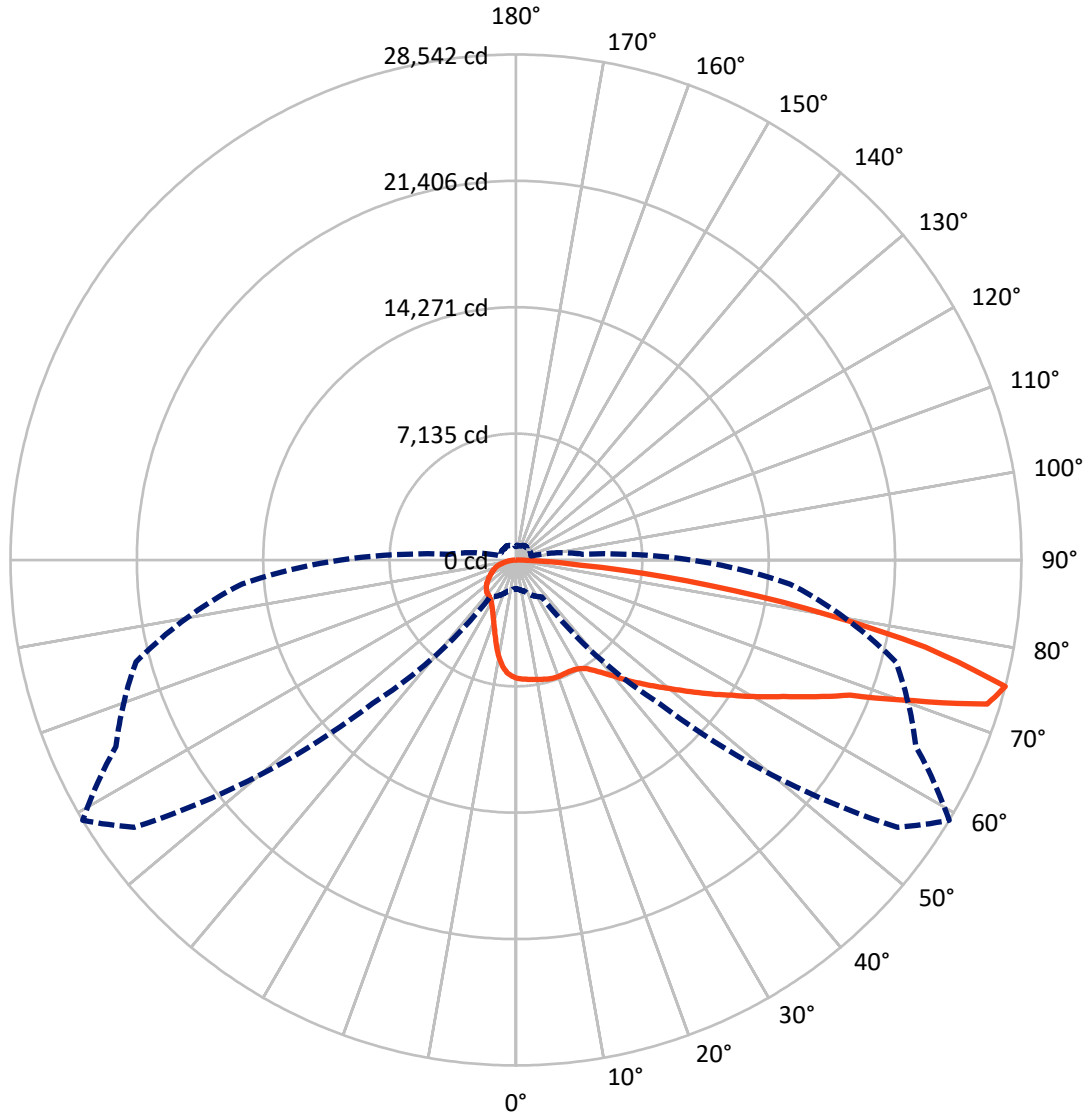
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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
House Side	Lumens	6828.0	0.0	6828.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29577.0	0.0	29577.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	36405.0	0.0	36405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.2	1.6
10°-20°	1531.5	4.2
20°-30°	2326.2	6.4
30°-40°	3457.8	9.5
40°-50°	5142.4	14.1
50°-60°	6980.2	19.2
60°-70°	8521.7	23.4
70°-80°	6687.7	18.4
80°-90°	1158.5	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°	36405.0	100.0
0°-180°	36405.0	100.0

Coefficient of Utilization



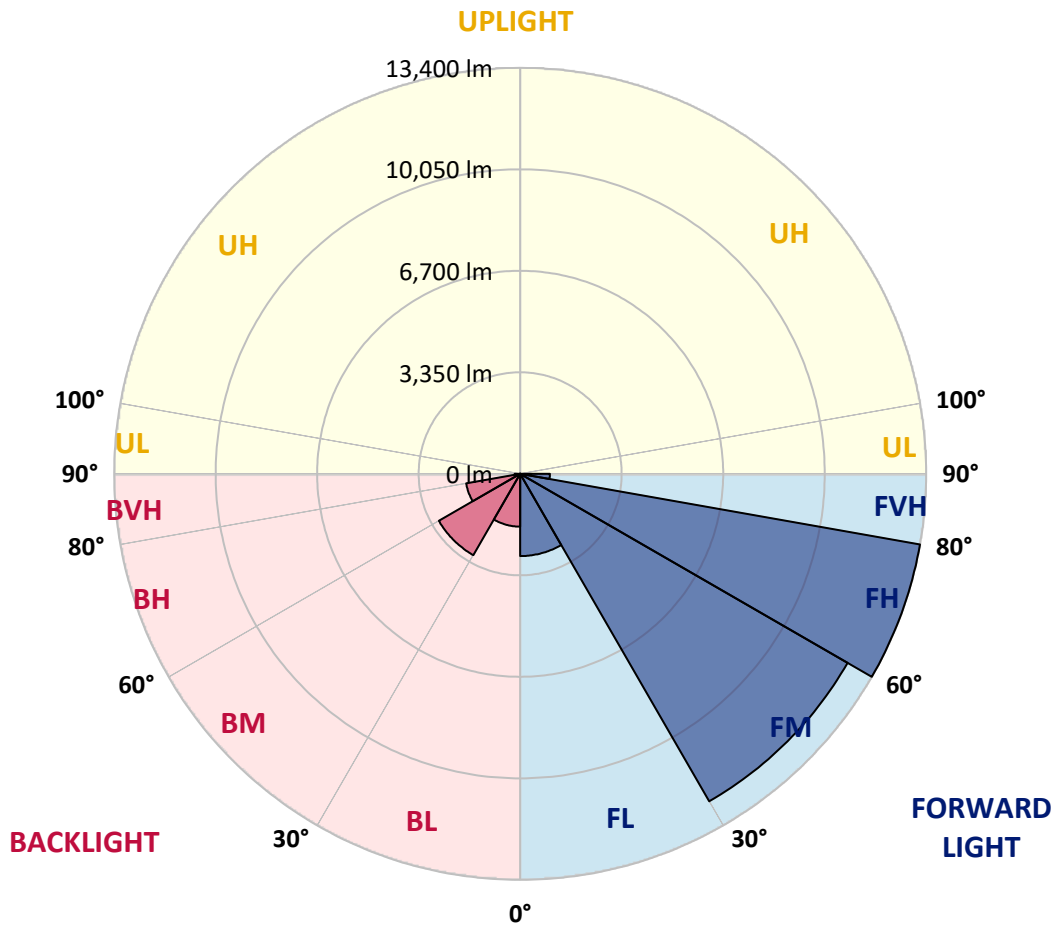
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.4	7.5			
FM (30°-60°)	12481.1	34.3			
FH (60°-80°)	13400.3	36.8			G5
FVH (80°-90°)	981.1	2.7			G5
BL (0°-30°)	1742.4	4.8	B3/2500		
BM (30°-60°)	3099.2	8.5	B3/5000		
BH (60°-80°)	1809.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	177.3	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°	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1
2.5°	6738.9	6715.3	6738.9	6729.1	6725.1	6717.3	6719.3	6733.0	6725.1	6734.9
5°	6693.8	6680.1	6703.6	6697.7	6723.2	6727.1	6752.6	6768.2	6778.0	6780.0
7.5°	6619.4	6605.7	6639.0	6666.4	6721.2	6736.9	6789.8	6815.2	6828.9	6852.4
10°	6347.2	6341.3	6423.5	6527.3	6656.6	6736.9	6817.2	6860.3	6881.8	6944.5
12.5°	5865.4	5873.2	5980.9	6180.7	6439.2	6697.7	6848.5	6911.2	6944.5	7022.8
15°	5405.2	5403.2	5520.7	5734.2	6096.5	6525.4	6864.2	6971.9	7028.7	7144.2
17.5°	5138.8	5131.0	5213.3	5375.8	5712.6	6261.0	6825.0	7005.2	7126.6	7271.5
20°	5089.9	5074.2	5117.3	5197.6	5436.5	5971.2	6723.2	7005.2	7204.9	7393.0
22.5°	5268.1	5242.6	5225.0	5215.2	5321.0	5732.2	6607.6	6981.7	7320.5	7567.3
25°	5626.5	5587.3	5497.2	5409.1	5377.8	5624.5	6505.8	6975.8	7492.8	7802.3
27.5°	6206.2	6157.2	5975.1	5763.6	5573.6	5679.4	6460.8	7011.1	7682.8	8051.0
30°	6924.9	6872.0	6642.9	6317.8	5977.0	5883.0	6517.6	7114.9	7925.6	8381.9
32.5°	7569.2	7510.5	7314.6	6983.7	6523.4	6235.5	6697.7	7312.7	8307.5	8842.2
35°	8141.1	8072.5	7896.3	7590.8	7193.2	6731.0	7022.8	7663.2	8850.0	9590.3
37.5°	8701.2	8620.9	8428.9	8105.8	7827.7	7391.0	7471.3	8113.6	9570.7	10499.0
40°	9327.9	9212.3	8979.3	8660.0	8389.8	8164.6	8060.8	8665.9	10303.1	11513.4
42.5°	9935.0	9825.3	9547.2	9275.0	8936.2	8871.5	8744.3	9312.2	11104.1	12627.8
45°	10589.1	10457.8	10121.0	9776.3	9562.9	9341.6	9406.2	9958.5	11889.4	13763.6
47.5°	11202.0	11055.2	10657.6	10273.8	10156.3	9737.2	10013.3	10669.4	12706.1	14915.2
50°	11533.0	11388.1	11057.1	10710.5	10618.4	10224.8	10671.3	11450.8	13561.9	16062.8
52.5°	11809.1	11652.5	11219.7	11027.7	11000.3	10755.5	11482.1	12343.8	14417.7	17077.2
55°	12102.9	11928.6	11376.3	11204.0	11329.3	11350.9	12443.7	13356.3	15322.5	18066.2
57.5°	12441.7	12220.4	11527.1	11352.8	11650.5	12048.1	13548.2	14406.0	16211.6	18982.8
60°	12760.9	12537.7	11817.0	11589.8	11997.2	12856.9	14815.3	15677.0	17218.2	19799.4
62.5°	12823.6	12639.5	12048.1	12046.1	12467.2	13800.8	16315.4	16959.7	18097.6	20606.3
65°	11738.6	11623.1	11272.5	12028.5	13140.9	15160.0	17985.9	18600.9	19215.8	21311.3
67.5°	8934.2	8949.9	8924.4	10383.4	12596.4	17112.5	20404.6	20357.6	20596.5	22102.5
70°	4085.2	4177.3	4776.5	7167.7	10091.6	17337.7	24403.6	23794.5	22329.7	23126.7
72.5°	2207.1	2277.6	2522.4	3472.2	6067.1	15414.6	27392.1	27824.9	24634.7	23816.1
75°	1619.6	1658.8	1829.1	2207.1	2547.9	11456.6	26320.9	28541.7	24922.6	22208.2
77.5°	1212.2	1229.9	1368.9	1748.9	1304.3	6039.7	21031.2	23637.9	21334.8	18246.4
80°	879.3	898.9	1002.7	1312.1	914.6	2209.1	14441.2	16591.6	14611.6	11630.9
82.5°	607.1	614.9	660.0	893.0	638.4	857.8	8193.9	9729.3	8156.7	4081.3
85°	366.2	376.0	395.6	520.9	362.3	407.3	3536.9	3658.3	2438.2	975.3
87.5°	150.8	160.6	176.3	219.3	143.0	113.6	583.6	732.4	456.3	285.9
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°
6682.1	0°	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1	6682.1
6701.6	2.5°	6691.8	6678.1	6640.9	6590.0	6543.0	6484.3	6458.8	6437.3	6417.7	6380.5
6754.5	5°	6733.0	6695.8	6595.9	6466.6	6319.8	6159.2	6002.5	5894.8	5802.7	5734.2
6815.2	7.5°	6795.6	6725.1	6543.0	6278.6	5941.8	5597.1	5285.7	5064.4	4898.0	4837.2
6901.4	10°	6860.3	6776.1	6458.8	5992.7	5411.1	4880.3	4467.1	4239.9	4106.8	4063.7
7003.2	12.5°	6936.6	6813.3	6327.6	5595.1	4817.7	4236.0	3875.7	3742.5	3674.0	3650.5
7128.6	15°	7048.3	6844.6	6129.8	5097.7	4251.7	3766.0	3533.0	3440.9	3405.7	3403.7
7257.8	17.5°	7132.5	6850.5	5822.3	4565.0	3816.9	3482.0	3290.1	3254.9	3278.4	3313.6
7385.1	20°	7226.5	6797.6	5418.9	4079.3	3511.4	3233.3	3153.0	3176.5	3233.3	3284.2
7553.5	22.5°	7293.1	6701.6	4931.2	3701.4	3247.0	3090.4	3086.4	3135.4	3166.7	3192.2
7751.3	25°	7351.8	6539.1	4414.2	3384.1	3029.6	3004.2	3047.3	3031.6	3010.1	3031.6
7949.1	27.5°	7394.9	6282.5	3952.0	3106.0	2876.9	2945.4	2920.0	2884.7	2882.8	2894.5
8182.2	30°	7381.2	5939.8	3572.1	2841.6	2769.2	2835.8	2775.1	2769.2	2763.3	2769.2
8532.7	32.5°	7381.2	5550.1	3280.3	2659.5	2700.6	2675.2	2669.3	2655.6	2632.1	2630.1
9008.6	35°	7422.3	5160.4	3029.6	2561.6	2643.8	2583.1	2587.0	2553.8	2504.8	2481.3
9639.2	37.5°	7506.5	4847.0	2780.9	2514.6	2544.0	2542.0	2526.3	2469.5	2383.4	2309.0
10426.5	40°	7710.2	4755.0	2610.5	2493.0	2497.0	2520.5	2479.3	2369.7	2173.8	2052.4
11225.5	42.5°	8029.4	4909.7	2573.3	2440.2	2465.6	2489.1	2408.8	2154.2	2015.2	1942.7
12063.7	45°	8434.8	5180.0	2653.6	2363.8	2391.2	2432.3	2193.4	2072.0	2009.3	2011.3
12894.1	47.5°	8947.9	5463.9	2802.5	2297.2	2283.5	2307.0	2050.4	1976.0	1889.9	1911.4
13691.2	50°	9541.3	5751.8	2943.5	2207.1	2164.0	2087.7	1958.4	1887.9	1778.2	1727.3
14460.8	52.5°	10183.7	6029.9	3000.3	2097.4	2034.8	1946.6	1895.7	1809.6	1676.4	1592.2
15187.4	55°	10792.7	6282.5	2937.6	1966.2	1905.5	1837.0	1829.1	1776.3	1633.3	1515.8
15833.7	57.5°	11368.5	6494.1	2780.9	1833.1	1774.3	1733.2	1786.1	1760.6	1580.4	1429.6
16444.7	60°	11856.1	6639.0	2553.8	1697.9	1656.8	1635.3	1715.6	1707.7	1506.0	1337.6
16993.0	62.5°	12243.9	6695.8	2303.1	1568.7	1558.9	1519.7	1617.6	1617.6	1412.0	1247.5
17474.8	65°	12547.5	6640.9	2048.5	1441.4	1461.0	1402.2	1498.2	1486.4	1312.1	1167.2
18029.0	67.5°	12815.8	6460.8	1766.5	1316.0	1361.1	1286.7	1372.8	1345.4	1202.5	1086.9
18508.8	70°	12935.2	6041.7	1445.3	1190.7	1245.5	1173.1	1247.5	1196.6	1079.1	1000.7
17982.0	72.5°	11975.6	5021.3	1137.8	1059.5	1106.5	1047.7	1112.4	1053.6	945.9	910.7
15528.1	75°	9907.5	3768.0	875.4	916.5	951.8	906.7	949.8	906.7	808.8	834.3
11470.3	77.5°	7195.2	2544.0	669.8	765.7	781.4	757.9	795.1	746.1	658.0	652.1
5716.6	80°	3578.0	1490.3	524.9	605.1	599.3	583.6	626.7	603.2	528.8	560.1
1543.2	82.5°	1036.0	638.4	381.9	425.0	413.2	417.1	448.5	460.2	689.4	683.5
479.8	85°	325.1	250.7	229.1	237.0	225.2	231.1	264.4	524.9	485.7	284.0
148.8	87.5°	84.2	86.2	56.8	60.7	62.7	74.4	84.2	319.2	152.8	99.9
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>
6682.1
6362.8
5677.4
4731.5
3997.1
3656.3
3411.5
3327.3
3301.9
3205.9
3045.3
2914.1
2790.7
2655.6
2504.8
2334.4
2068.1
1942.7
2021.1
1966.2
1741.0
1590.2
1515.8
1421.8
1331.7
1241.6
1159.4
1079.1
985.1
881.3
761.8
622.8
554.2
699.1
307.5
105.8
0.0

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