

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: P953637

Luminaire Tested: **GALN-SB7A-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953637
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-SB7A-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 29823 lumens
Efficiency: N/A
Efficacy: 149.8 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

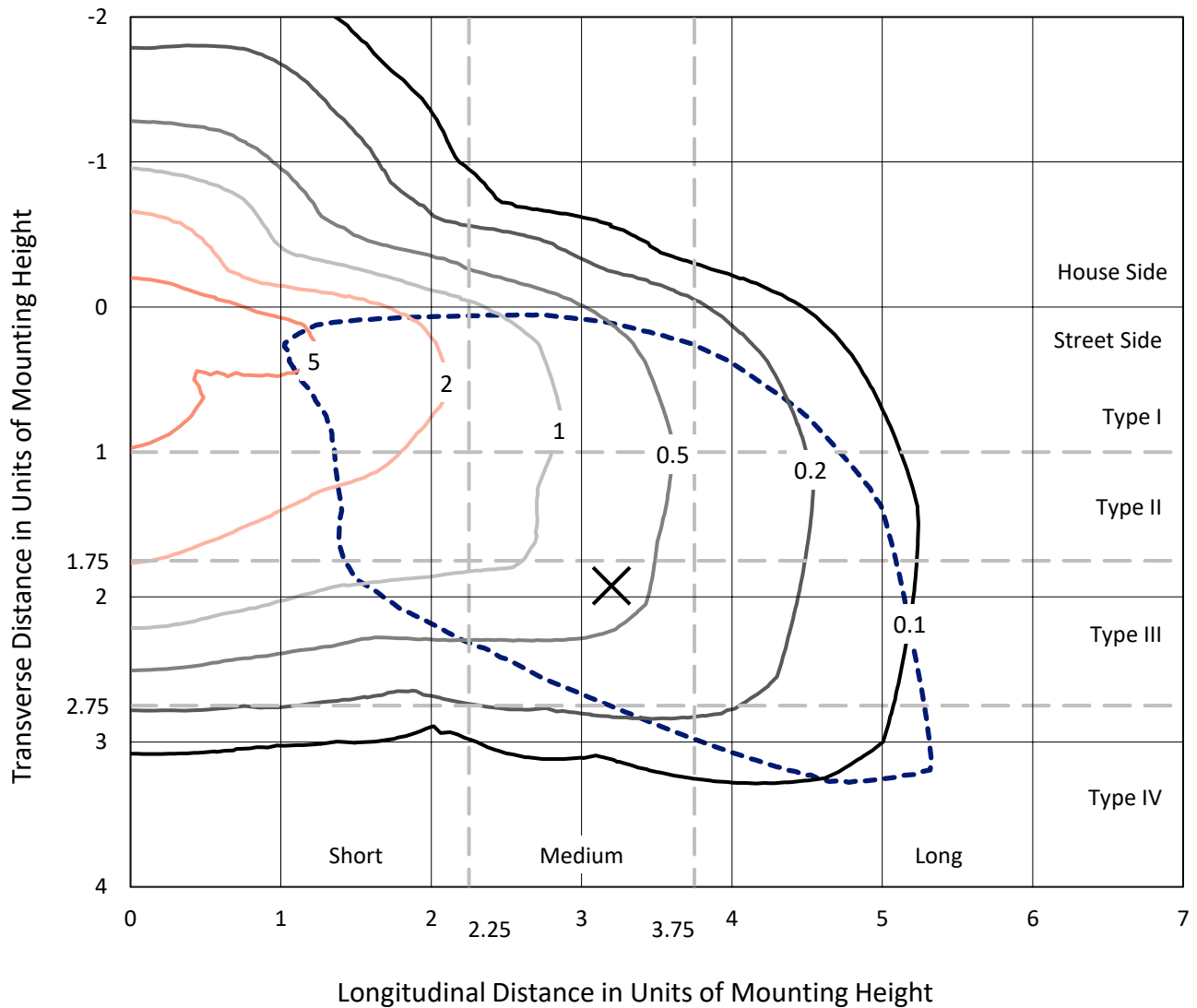
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

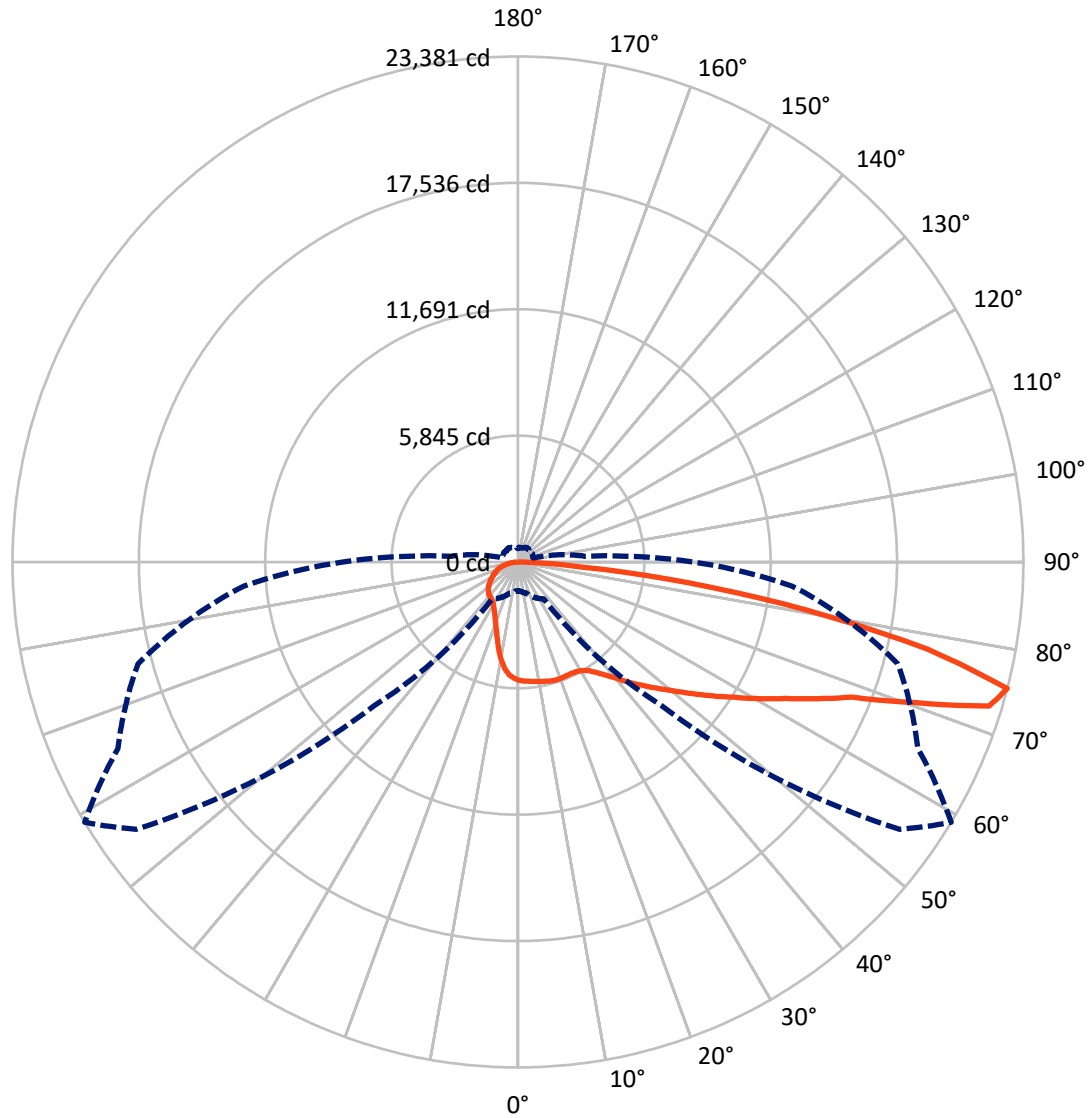
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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
House Side	Lumens	5593.5	0.0	5593.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24229.5	0.0	24229.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	29823.0	0.0	29823.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.6
10°-20°	1254.6	4.2
20°-30°	1905.6	6.4
30°-40°	2832.6	9.5
40°-50°	4212.6	14.1
50°-60°	5718.2	19.2
60°-70°	6980.9	23.4
70°-80°	5478.6	18.4
80°-90°	949.0	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°	29823.0	100.0
0°-180°	29823.0	100.0

Coefficient of Utilization



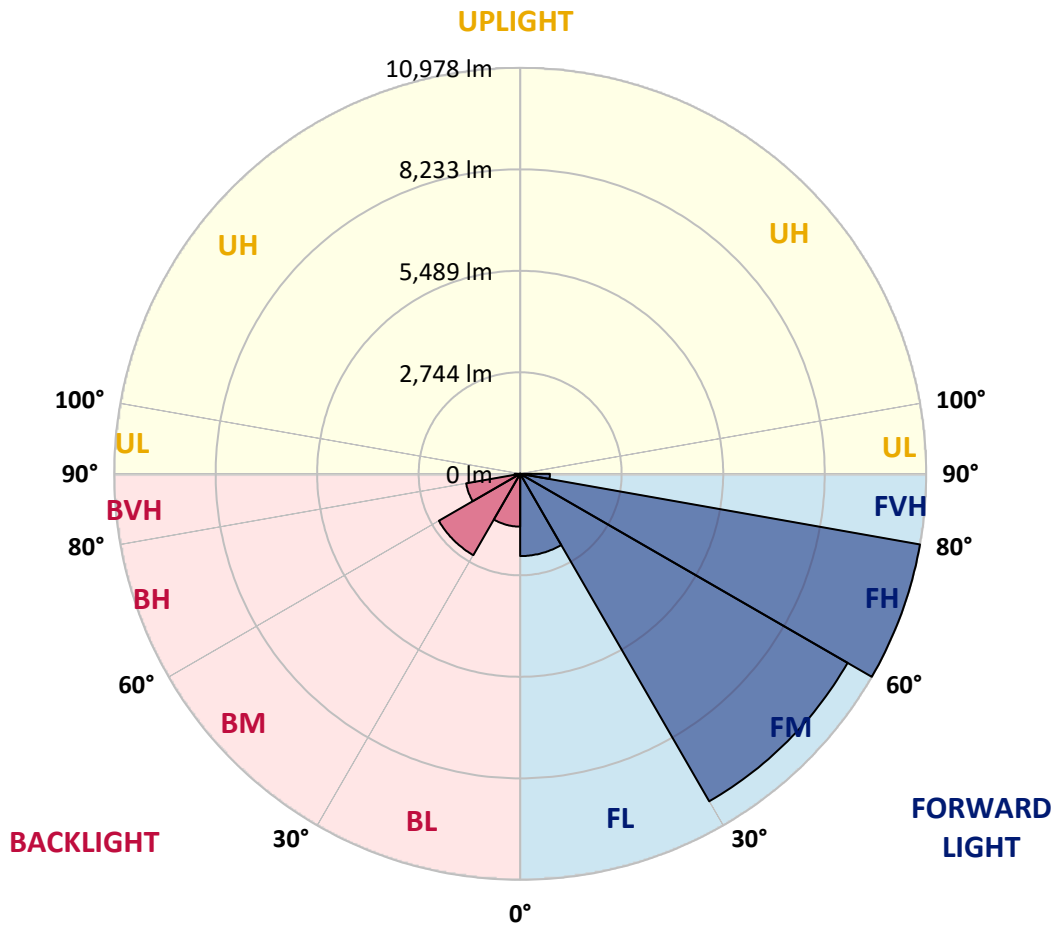
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2223.6	7.5			
FM (30°-60°)	10224.6	34.3			
FH (60°-80°)	10977.6	36.8			G4/12000
FVH (80°-90°)	803.8	2.7			G5
BL (0°-30°)	1427.4	4.8	B3/2500		
BM (30°-60°)	2538.9	8.5	B3/5000		
BH (60°-80°)	1481.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	145.3	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°	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9
2.5°	5520.5	5501.2	5520.5	5512.4	5509.2	5502.8	5504.4	5515.7	5509.2	5517.3
5°	5483.6	5472.3	5491.6	5486.8	5507.6	5510.8	5531.7	5544.5	5552.6	5554.2
7.5°	5422.6	5411.4	5438.7	5461.1	5506.0	5518.9	5562.2	5583.0	5594.3	5613.5
10°	5199.6	5194.8	5262.2	5347.2	5453.1	5518.9	5584.6	5619.9	5637.6	5688.9
12.5°	4804.9	4811.4	4899.6	5063.2	5275.0	5486.8	5610.3	5661.7	5688.9	5753.1
15°	4427.9	4426.3	4522.6	4697.5	4994.3	5345.6	5623.1	5711.4	5757.9	5852.6
17.5°	4209.7	4203.3	4270.7	4403.9	4679.8	5129.0	5591.1	5738.7	5838.1	5956.8
20°	4169.6	4156.8	4192.1	4257.9	4453.6	4891.6	5507.6	5738.7	5902.3	6056.3
22.5°	4315.6	4294.8	4280.3	4272.3	4358.9	4695.8	5413.0	5719.4	5997.0	6199.1
25°	4609.2	4577.1	4503.3	4431.1	4405.5	4607.6	5329.6	5714.6	6138.1	6391.6
27.5°	5084.1	5044.0	4894.8	4721.5	4565.9	4652.5	5292.7	5743.5	6293.8	6595.4
30°	5672.9	5629.6	5441.9	5175.5	4896.4	4819.4	5339.2	5828.5	6492.7	6866.5
32.5°	6200.7	6152.6	5992.1	5721.0	5344.0	5108.2	5486.8	5990.5	6805.5	7243.5
35°	6669.2	6613.0	6468.6	6218.4	5892.7	5514.1	5753.1	6277.7	7249.9	7856.4
37.5°	7128.0	7062.2	6905.0	6640.3	6412.5	6054.7	6120.5	6646.7	7840.3	8600.8
40°	7641.4	7546.7	7355.8	7094.3	6872.9	6688.4	6603.4	7099.1	8440.3	9431.8
42.5°	8138.7	8048.9	7821.1	7598.1	7320.5	7267.6	7163.3	7628.5	9096.5	10344.7
45°	8674.6	8567.1	8291.1	8008.8	7833.9	7652.6	7705.6	8158.0	9739.8	11275.2
47.5°	9176.7	9056.4	8730.7	8416.3	8320.0	7976.7	8202.9	8740.3	10408.8	12218.5
50°	9447.8	9329.1	9058.0	8774.0	8698.6	8376.2	8741.9	9380.5	11109.9	13158.6
52.5°	9674.1	9545.7	9191.2	9033.9	9011.5	8810.9	9406.1	10112.0	11811.0	13989.7
55°	9914.7	9771.9	9319.5	9178.3	9281.0	9298.6	10193.9	10941.5	12552.2	14799.9
57.5°	10192.3	10011.0	9443.0	9300.3	9544.1	9869.8	11098.7	11801.4	13280.6	15550.7
60°	10453.8	10270.9	9680.5	9494.4	9828.1	10532.4	12136.7	12842.6	14105.2	16219.7
62.5°	10505.1	10354.3	9869.8	9868.2	10213.1	11305.7	13365.6	13893.4	14825.5	16880.7
65°	9616.3	9521.6	9234.5	9853.7	10765.0	12419.1	14734.1	15237.8	15741.6	17458.2
67.5°	7318.9	7331.7	7310.9	8506.1	10319.0	14018.6	16715.4	16676.9	16872.6	18106.4
70°	3346.6	3422.0	3912.9	5871.8	8267.1	14203.1	19991.5	19492.5	18292.5	18945.4
72.5°	1808.1	1865.8	2066.4	2844.5	4970.2	12627.6	22439.6	22794.2	20180.8	19510.2
75°	1326.8	1358.9	1498.4	1808.1	2087.2	9385.3	21562.1	23381.4	20416.6	18193.0
77.5°	993.1	1007.5	1121.4	1432.7	1068.5	4947.7	17228.8	19364.2	17477.5	14947.5
80°	720.3	736.4	821.4	1074.9	749.2	1809.7	11830.3	13591.8	11969.8	9528.1
82.5°	497.3	503.8	540.7	731.6	523.0	702.7	6712.5	7970.3	6682.0	3343.4
85°	300.0	308.0	324.1	426.7	296.8	333.7	2897.4	2996.9	1997.4	799.0
87.5°	123.5	131.6	144.4	179.7	117.1	93.1	478.1	600.0	373.8	234.2
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°
5473.9	0°	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9	5473.9
5490.0	2.5°	5482.0	5470.7	5440.3	5398.5	5360.0	5311.9	5291.1	5273.4	5257.4	5226.9
5533.3	5°	5515.7	5485.2	5403.4	5297.5	5177.1	5045.6	4917.2	4829.0	4753.6	4697.5
5583.0	7.5°	5567.0	5509.2	5360.0	5143.5	4867.5	4585.2	4330.1	4148.8	4012.4	3962.7
5653.6	10°	5619.9	5551.0	5291.1	4909.2	4432.7	3998.0	3659.5	3473.4	3364.3	3329.0
5737.1	12.5°	5682.5	5581.4	5183.6	4583.5	3946.6	3470.1	3175.0	3065.9	3009.7	2990.5
5839.7	15°	5774.0	5607.1	5021.5	4176.0	3483.0	3085.1	2894.2	2818.8	2789.9	2788.3
5945.6	17.5°	5842.9	5611.9	4769.6	3739.7	3126.8	2852.5	2695.3	2666.4	2685.6	2714.5
6049.9	20°	5919.9	5568.6	4439.2	3341.8	2876.5	2648.7	2583.0	2602.2	2648.7	2690.4
6187.9	22.5°	5974.5	5490.0	4039.7	3032.2	2660.0	2531.6	2528.4	2568.5	2594.2	2615.0
6349.9	25°	6022.6	5356.8	3616.1	2772.3	2481.9	2461.0	2496.3	2483.5	2465.8	2483.5
6511.9	27.5°	6057.9	5146.7	3237.5	2544.5	2356.7	2412.9	2392.0	2363.2	2361.6	2371.2
6702.9	30°	6046.7	4865.9	2926.3	2327.9	2268.5	2323.1	2273.3	2268.5	2263.7	2268.5
6990.0	32.5°	6046.7	4546.6	2687.2	2178.7	2212.4	2191.5	2186.7	2175.5	2156.2	2154.6
7379.9	35°	6080.4	4227.4	2481.9	2098.5	2165.8	2116.1	2119.3	2092.0	2051.9	2032.7
7896.5	37.5°	6149.4	3970.7	2278.1	2059.9	2084.0	2082.4	2069.6	2023.0	1952.5	1891.5
8541.4	40°	6316.2	3895.3	2138.6	2042.3	2045.5	2064.8	2031.1	1941.2	1780.8	1681.3
9196.0	42.5°	6577.7	4022.0	2108.1	1999.0	2019.8	2039.1	1973.3	1764.8	1650.8	1591.5
9882.6	45°	6909.8	4243.4	2173.9	1936.4	1958.9	1992.6	1796.8	1697.4	1646.0	1647.6
10562.9	47.5°	7330.1	4476.1	2295.8	1881.9	1870.6	1889.9	1679.7	1618.8	1548.2	1565.8
11215.8	50°	7816.3	4711.9	2411.3	1808.1	1772.8	1710.2	1604.3	1546.6	1456.7	1415.0
11846.3	52.5°	8342.5	4939.7	2457.8	1718.2	1666.9	1594.7	1553.0	1482.4	1373.3	1304.3
12441.5	55°	8841.4	5146.7	2406.5	1610.7	1561.0	1504.9	1498.4	1455.1	1338.0	1241.7
12970.9	57.5°	9313.1	5319.9	2278.1	1501.6	1453.5	1419.8	1463.1	1442.3	1294.7	1171.2
13471.5	60°	9712.6	5438.7	2092.0	1390.9	1357.3	1339.6	1405.4	1399.0	1233.7	1095.8
13920.7	62.5°	10030.2	5485.2	1886.7	1285.1	1277.0	1245.0	1325.2	1325.2	1156.7	1022.0
14315.4	65°	10278.9	5440.3	1678.1	1180.8	1196.8	1148.7	1227.3	1217.7	1074.9	956.2
14769.4	67.5°	10498.7	5292.7	1447.1	1078.1	1115.0	1054.0	1124.6	1102.2	985.1	890.4
15162.4	70°	10596.5	4949.3	1184.0	975.4	1020.3	961.0	1022.0	980.2	884.0	819.8
14730.9	72.5°	9810.4	4113.5	932.1	867.9	906.4	858.3	911.3	863.1	774.9	746.0
12720.7	75°	8116.3	3086.7	717.1	750.8	779.7	742.8	778.1	742.8	662.6	683.4
9396.5	77.5°	5894.3	2084.0	548.7	627.3	640.1	620.9	651.4	611.2	539.1	534.2
4683.0	80°	2931.1	1220.9	430.0	495.7	490.9	478.1	513.4	494.1	433.2	458.8
1264.2	82.5°	848.7	523.0	312.8	348.1	338.5	341.7	367.4	377.0	564.7	559.9
393.1	85°	266.3	205.4	187.7	194.1	184.5	189.3	216.6	430.0	397.9	232.6
121.9	87.5°	69.0	70.6	46.5	49.7	51.3	61.0	69.0	261.5	125.1	81.8
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>
5473.9
5212.4
4650.9
3876.0
3274.4
2995.3
2794.7
2725.7
2704.9
2626.3
2494.7
2387.2
2286.2
2175.5
2051.9
1912.4
1694.2
1591.5
1655.7
1610.7
1426.2
1302.7
1241.7
1164.7
1090.9
1017.1
949.8
884.0
807.0
721.9
624.1
510.2
454.0
572.7
251.9
86.6
0.0

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