

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: P953826

Luminaire Tested: **GALN-SB7B-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953826
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-SB7B-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 39138 lumens
Efficiency: N/A
Efficacy: 152.5 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

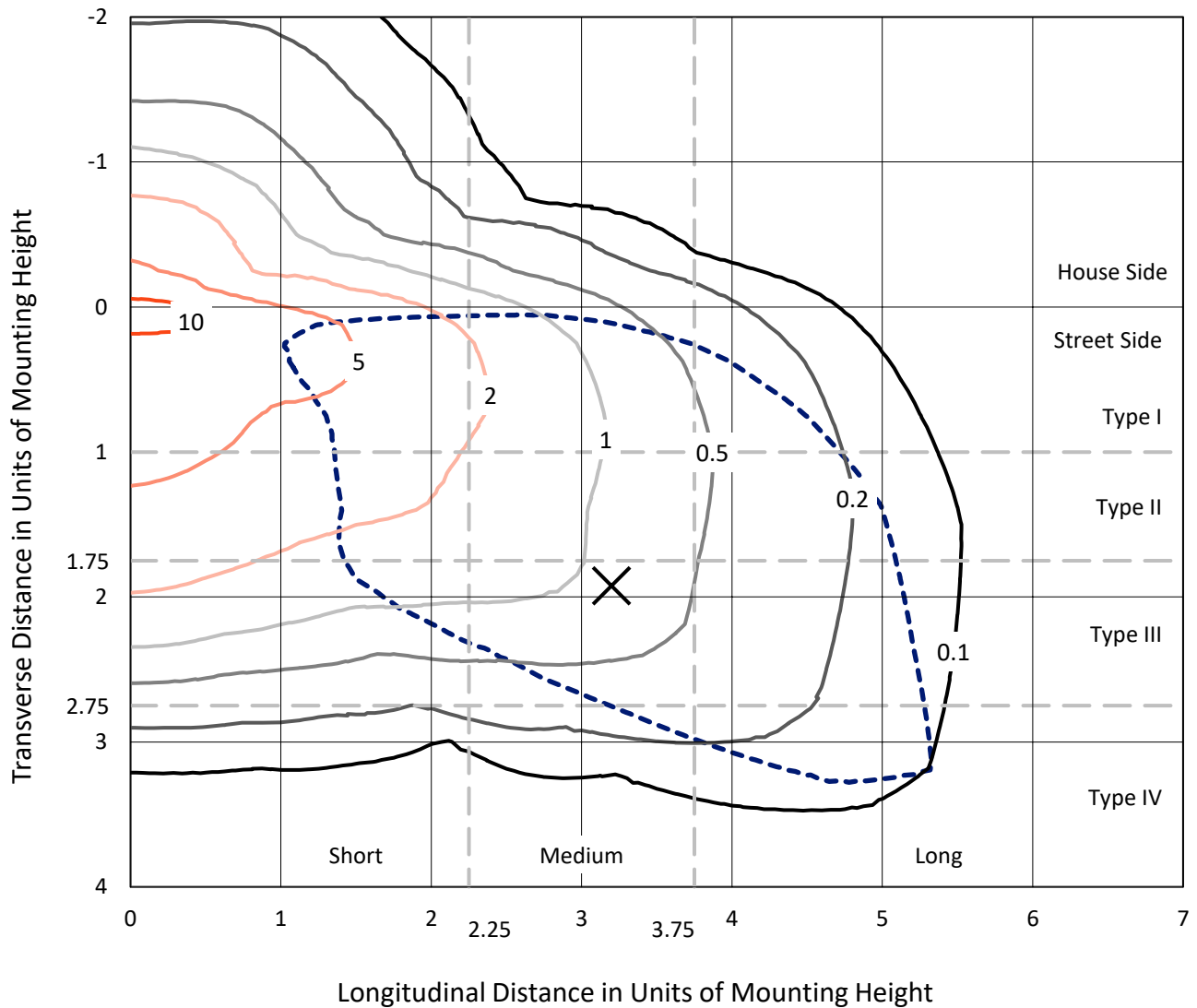
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

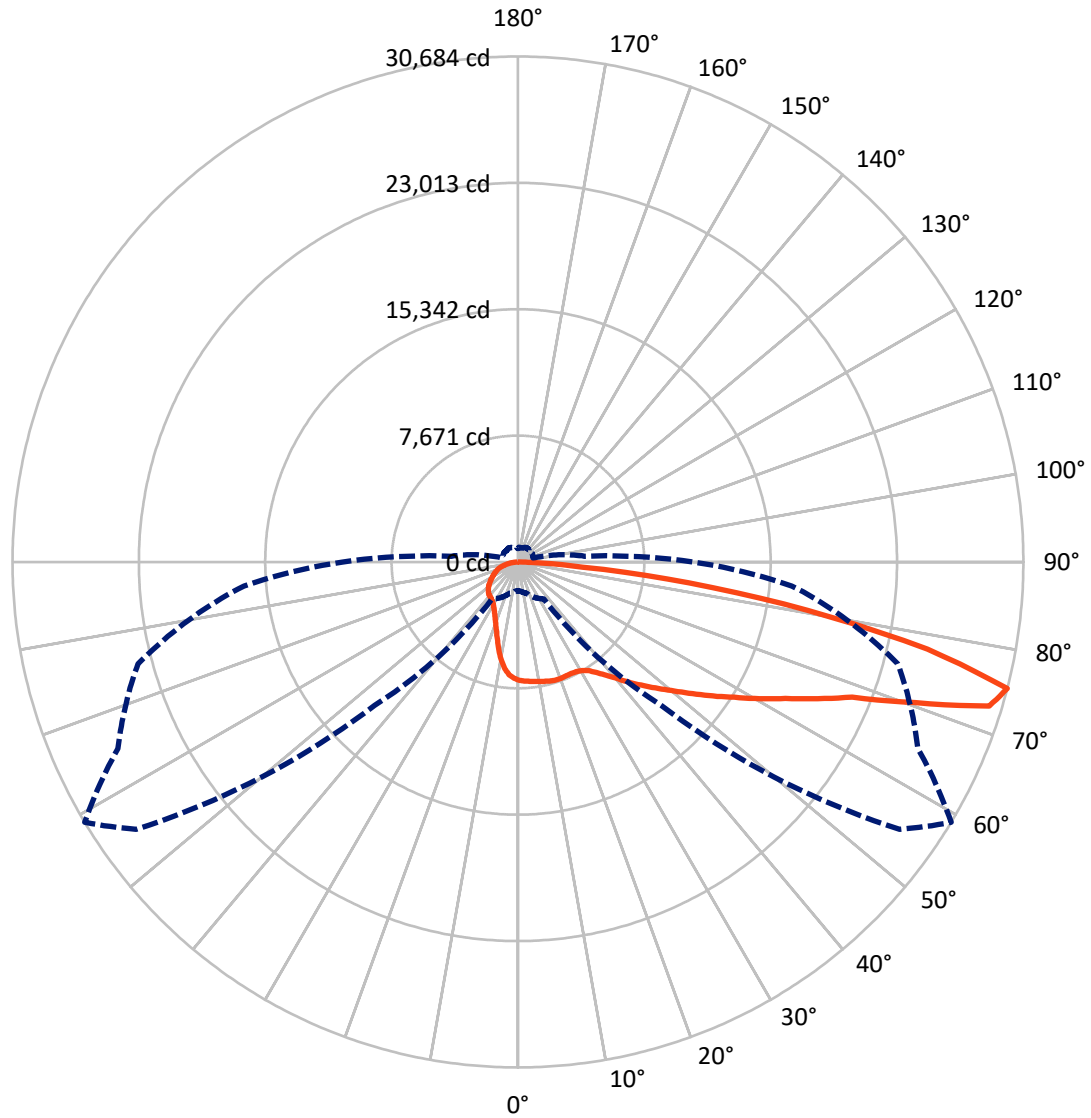
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	7340.6	0.0	7340.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31797.4	0.0	31797.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	39138.0	0.0	39138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.1	1.6
10°-20°	1646.4	4.2
20°-30°	2500.8	6.4
30°-40°	3717.4	9.5
40°-50°	5528.4	14.1
50°-60°	7504.2	19.2
60°-70°	9161.4	23.4
70°-80°	7189.7	18.4
80°-90°	1245.4	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°	39138.0	100.0
0°-180°	39138.0	100.0

Coefficient of Utilization



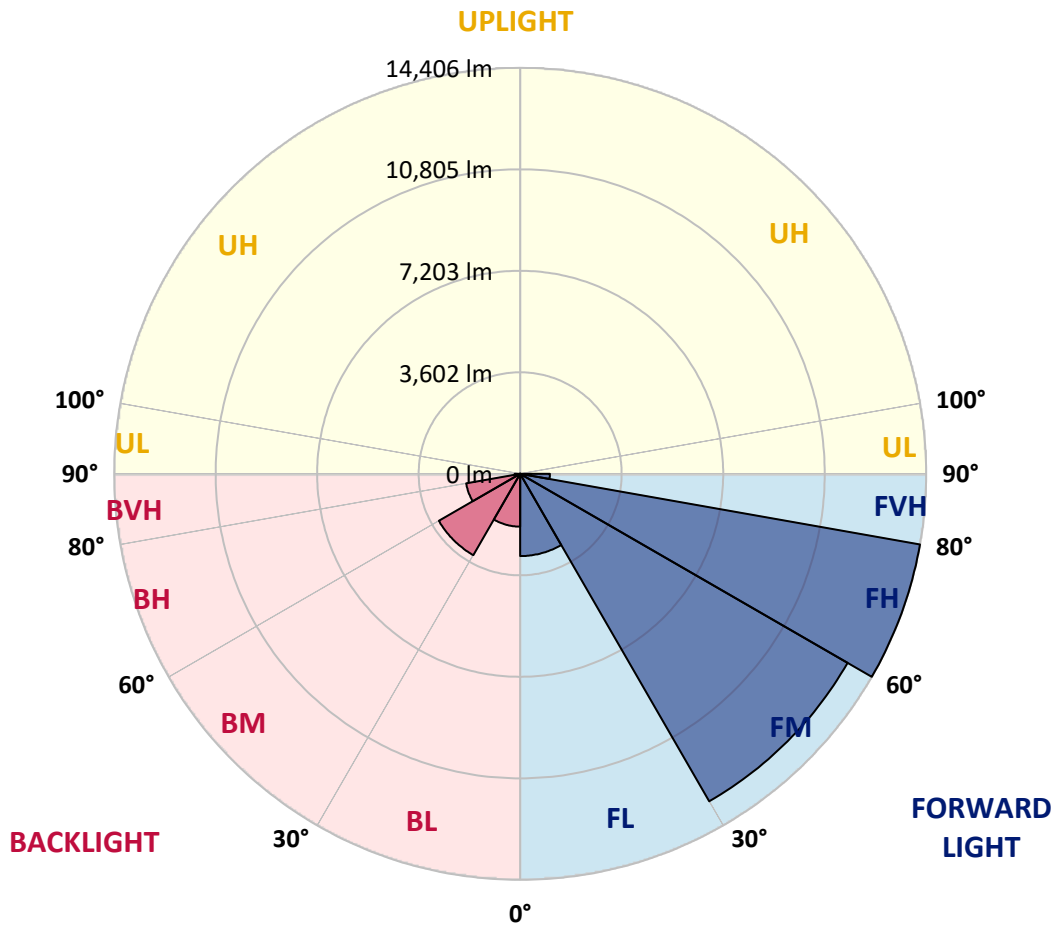
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2918.2	7.5			
FM (30°-60°)	13418.1	34.3			
FH (60°-80°)	14406.3	36.8			G5
FVH (80°-90°)	1054.8	2.7			G5
BL (0°-30°)	1873.2	4.8	B3/2500		
BM (30°-60°)	3331.9	8.5	B3/5000		
BH (60°-80°)	1944.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	190.6	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°	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7
2.5°	7244.7	7219.5	7244.7	7234.2	7230.0	7221.6	7223.7	7238.4	7230.0	7240.5
5°	7196.3	7181.6	7206.9	7200.5	7227.9	7232.1	7259.5	7276.3	7286.9	7289.0
7.5°	7116.3	7101.6	7137.4	7166.8	7225.8	7242.6	7299.5	7326.9	7341.6	7366.9
10°	6823.7	6817.3	6905.8	7017.4	7156.3	7242.6	7329.0	7375.3	7398.4	7465.8
12.5°	6305.7	6314.2	6430.0	6644.7	6922.6	7200.5	7362.7	7430.0	7465.8	7550.0
15°	5811.0	5808.9	5935.2	6164.7	6554.2	7015.3	7379.5	7495.3	7556.4	7680.6
17.5°	5524.6	5516.2	5604.6	5779.4	6141.5	6731.0	7337.4	7531.1	7661.6	7817.4
20°	5472.0	5455.1	5501.5	5587.8	5844.6	6419.4	7227.9	7531.1	7745.8	7948.0
22.5°	5663.6	5636.2	5617.3	5606.7	5720.4	6162.6	7103.7	7505.8	7870.1	8135.3
25°	6048.9	6006.8	5909.9	5815.2	5781.5	6046.8	6994.2	7499.5	8055.3	8388.0
27.5°	6672.1	6619.4	6423.6	6196.3	5992.0	6105.7	6945.8	7537.4	8259.6	8655.4
30°	7444.8	7387.9	7141.6	6792.1	6425.7	6324.7	7006.8	7649.0	8520.6	9011.2
32.5°	8137.4	8074.3	7863.7	7507.9	7013.2	6703.7	7200.5	7861.6	8931.2	9506.0
35°	8752.2	8678.5	8489.1	8160.6	7733.2	7236.3	7550.0	8238.5	9514.4	10310.2
37.5°	9354.4	9268.1	9061.7	8714.3	8415.4	7945.9	8032.2	8722.8	10289.2	11287.2
40°	10028.1	9903.9	9653.4	9310.2	9019.6	8777.5	8665.9	9316.5	11076.6	12377.8
42.5°	10680.8	10562.9	10263.9	9971.3	9607.0	9537.6	9400.7	10011.3	11937.7	13575.7
45°	11384.0	11242.9	10880.8	10510.3	10280.8	10042.9	10112.3	10706.1	12782.0	14796.9
47.5°	12043.0	11885.1	11457.7	11045.0	10918.7	10468.1	10765.0	11470.3	13660.0	16034.9
50°	12398.8	12243.0	11887.2	11514.5	11415.6	10992.4	11472.4	12310.4	14580.0	17268.7
52.5°	12695.7	12527.2	12062.0	11855.6	11826.1	11563.0	12344.1	13270.5	15500.1	18359.3
55°	13011.5	12824.1	12230.4	12045.1	12179.9	12203.0	13377.8	14359.0	16472.8	19422.5
57.5°	13375.7	13137.8	12392.5	12205.1	12525.1	12952.5	14565.3	15487.5	17428.7	20407.8
60°	13718.9	13478.9	12704.1	12459.9	12897.8	13822.1	15927.5	16853.9	18510.9	21285.8
62.5°	13786.3	13588.4	12952.5	12950.4	13403.1	14836.9	17540.3	18232.9	19456.2	22153.2
65°	12619.9	12495.7	12118.8	12931.5	14127.4	16298.1	19336.2	19997.3	20658.4	22911.2
67.5°	9604.9	9621.8	9594.4	11162.9	13542.1	18397.2	21936.4	21885.8	22142.7	23761.8
70°	4391.9	4490.9	5135.1	7705.8	10849.2	18639.3	26235.6	25580.9	24006.0	24862.9
72.5°	2372.8	2448.6	2711.8	3732.9	6522.6	16571.8	29448.5	29913.8	26484.1	25604.0
75°	1741.2	1783.3	1966.5	2372.8	2739.2	12316.7	28296.8	30684.4	26793.6	23875.5
77.5°	1303.3	1322.2	1471.7	1880.1	1402.2	6493.1	22610.1	25412.4	22936.4	19616.2
80°	945.3	966.4	1078.0	1410.6	983.2	2374.9	15525.4	17837.1	15708.5	12504.1
82.5°	652.7	661.1	709.5	960.1	686.4	922.2	8809.1	10459.7	8769.1	4387.7
85°	393.7	404.2	425.3	560.0	389.5	437.9	3802.4	3932.9	2621.2	1048.5
87.5°	162.1	172.6	189.5	235.8	153.7	122.1	627.4	787.4	490.6	307.4
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°
7183.7	0°	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7	7183.7
7204.7	2.5°	7194.2	7179.5	7139.5	7084.7	7034.2	6971.0	6943.7	6920.5	6899.5	6859.5
7261.6	5°	7238.4	7198.4	7091.1	6952.1	6794.2	6621.5	6453.1	6337.3	6238.4	6164.7
7326.9	7.5°	7305.8	7230.0	7034.2	6750.0	6387.8	6017.3	5682.5	5444.6	5265.7	5200.4
7419.5	10°	7375.3	7284.8	6943.7	6442.6	5817.3	5246.7	4802.5	4558.2	4415.1	4368.7
7529.0	12.5°	7457.4	7324.8	6802.6	6015.2	5179.3	4554.0	4166.6	4023.5	3949.8	3924.5
7663.7	15°	7577.4	7358.4	6590.0	5480.4	4570.9	4048.7	3798.2	3699.2	3661.3	3659.2
7802.7	17.5°	7667.9	7364.8	6259.4	4907.7	4103.5	3743.4	3537.1	3499.2	3524.5	3562.4
7939.5	20°	7769.0	7307.9	5825.7	4385.6	3775.0	3476.0	3389.7	3415.0	3476.0	3530.8
8120.6	22.5°	7840.6	7204.7	5301.4	3979.2	3490.8	3322.4	3318.1	3370.8	3404.5	3431.8
8333.3	25°	7903.7	7030.0	4745.6	3638.2	3257.1	3229.7	3276.0	3259.2	3236.0	3259.2
8545.9	27.5°	7950.1	6754.2	4248.7	3339.2	3092.9	3166.6	3139.2	3101.3	3099.2	3111.8
8796.4	30°	7935.3	6385.7	3840.3	3055.0	2977.1	3048.6	2983.4	2977.1	2970.7	2977.1
9173.3	32.5°	7935.3	5966.8	3526.6	2859.2	2903.4	2876.0	2869.7	2854.9	2829.7	2827.6
9684.9	35°	7979.5	5547.8	3257.1	2753.9	2842.3	2777.0	2781.3	2745.5	2692.8	2667.6
10362.9	37.5°	8070.1	5210.9	2989.7	2703.4	2734.9	2732.8	2716.0	2654.9	2562.3	2482.3
11209.3	40°	8289.0	5112.0	2806.5	2680.2	2684.4	2709.7	2665.5	2547.6	2337.0	2206.5
12068.3	42.5°	8632.2	5278.3	2766.5	2623.4	2650.7	2676.0	2589.7	2316.0	2166.5	2088.6
12969.4	45°	9068.0	5568.8	2852.8	2541.2	2570.7	2614.9	2358.1	2227.5	2160.2	2162.3
13862.1	47.5°	9619.7	5874.1	3012.9	2469.7	2454.9	2480.2	2204.4	2124.4	2031.7	2054.9
14719.0	50°	10257.6	6183.6	3164.4	2372.8	2326.5	2244.4	2105.4	2029.6	1911.7	1857.0
15546.4	52.5°	10948.2	6482.6	3225.5	2254.9	2187.5	2092.8	2038.0	1945.4	1802.2	1711.7
16327.5	55°	11603.0	6754.2	3158.1	2113.8	2048.6	1974.9	1966.5	1909.6	1755.9	1629.6
17022.3	57.5°	12222.0	6981.6	2989.7	1970.7	1907.5	1863.3	1920.1	1892.8	1699.1	1537.0
17679.2	60°	12746.2	7137.4	2745.5	1825.4	1781.2	1758.0	1844.3	1835.9	1619.1	1438.0
18268.7	62.5°	13163.1	7198.4	2476.0	1686.4	1675.9	1633.8	1739.1	1739.1	1518.0	1341.2
18786.7	65°	13489.4	7139.5	2202.3	1549.6	1570.6	1507.5	1610.6	1598.0	1410.6	1254.8
19382.5	67.5°	13777.9	6945.8	1899.1	1414.8	1463.3	1383.3	1475.9	1446.4	1292.7	1168.5
19898.3	70°	13906.3	6495.2	1553.8	1280.1	1339.0	1261.1	1341.2	1286.4	1160.1	1075.9
19332.0	72.5°	12874.6	5398.3	1223.2	1139.0	1189.6	1126.4	1195.9	1132.7	1016.9	979.0
16693.9	75°	10651.3	4050.8	941.1	985.3	1023.2	974.8	1021.1	974.8	869.5	896.9
12331.4	77.5°	7735.3	2734.9	720.1	823.2	840.1	814.8	854.8	802.2	707.4	701.1
6145.7	80°	3846.6	1602.2	564.3	650.6	644.3	627.4	673.7	648.5	568.5	602.2
1659.1	82.5°	1113.8	686.4	410.6	456.9	444.2	448.5	482.1	494.8	741.1	734.8
515.8	85°	349.5	269.5	246.3	254.8	242.1	248.4	284.2	564.3	522.1	305.3
160.0	87.5°	90.5	92.6	61.1	65.3	67.4	80.0	90.5	343.2	164.2	107.4
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>
7183.7
6840.5
6103.6
5086.7
4297.2
3930.8
3667.6
3577.1
3549.7
3446.6
3273.9
3132.9
3000.2
2854.9
2692.8
2509.7
2223.3
2088.6
2172.8
2113.8
1871.7
1709.6
1629.6
1528.5
1431.7
1334.8
1246.4
1160.1
1059.0
947.4
<i>819.0</i>
669.5
595.8
751.6
330.6
113.7
0.0

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