

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: P942905

Luminaire Tested: **GALN-SB7A-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30235 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

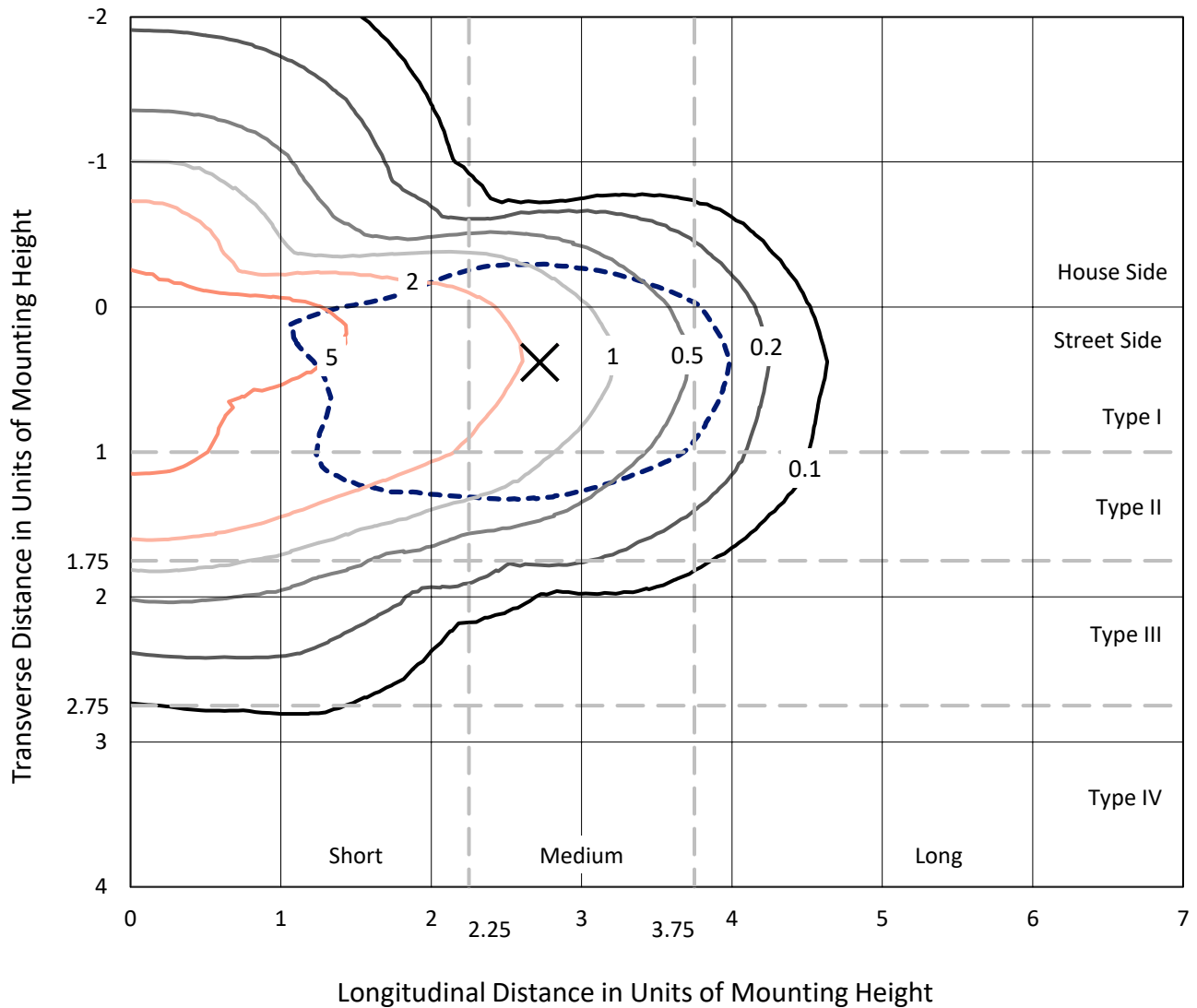
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

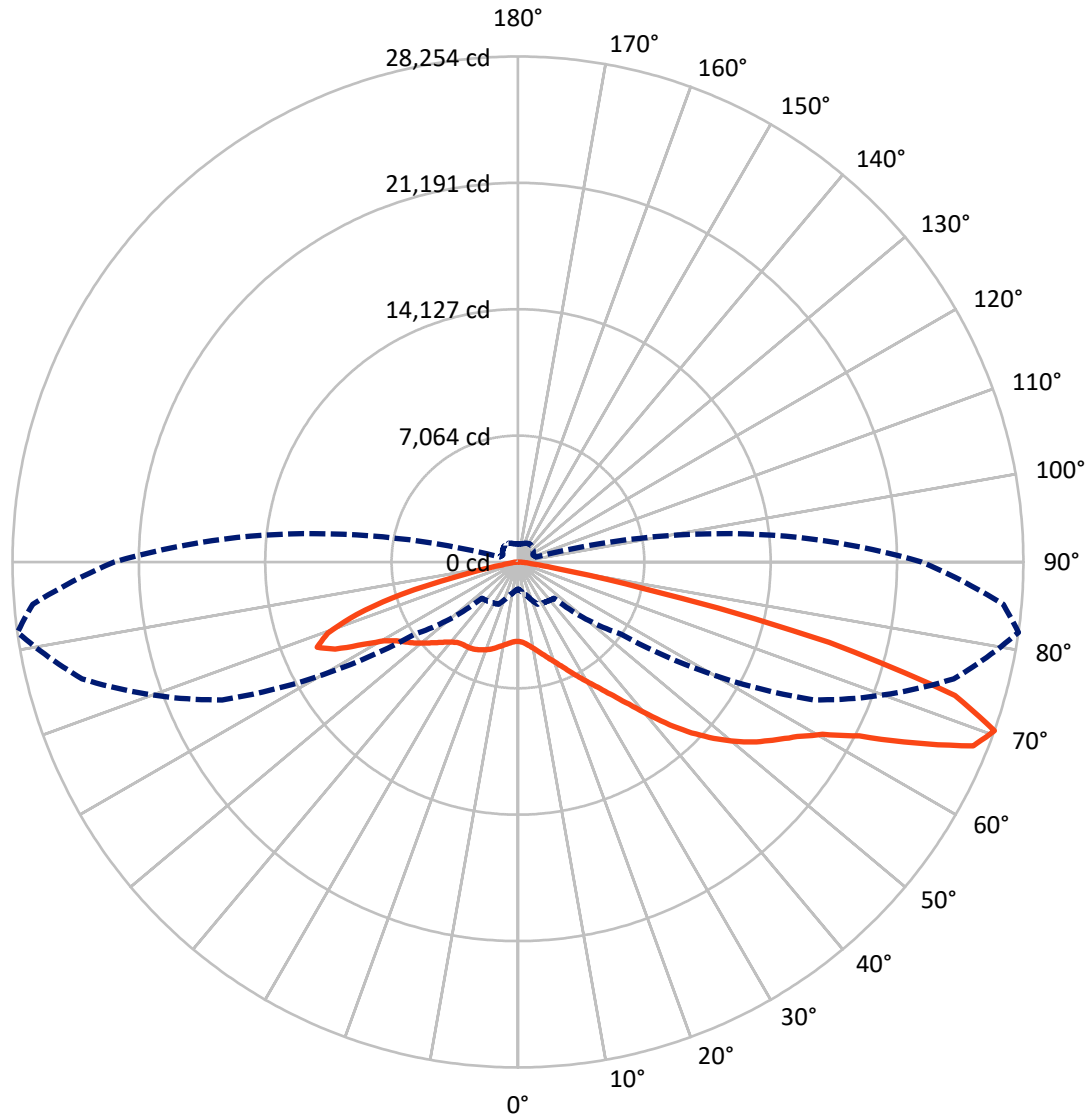
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7453.7	0.0	7453.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22781.3	0.0	22781.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	30235.0	0.0	30235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.5	1.4
10°-20°	1202.5	4.0
20°-30°	2011.6	6.7
30°-40°	3142.7	10.4
40°-50°	5005.1	16.6
50°-60°	6965.2	23.0
60°-70°	7285.9	24.1
70°-80°	3808.0	12.6
80°-90°	395.4	1.3
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°	30235.0	100.0
0°-180°	30235.0	100.0

Coefficient of Utilization



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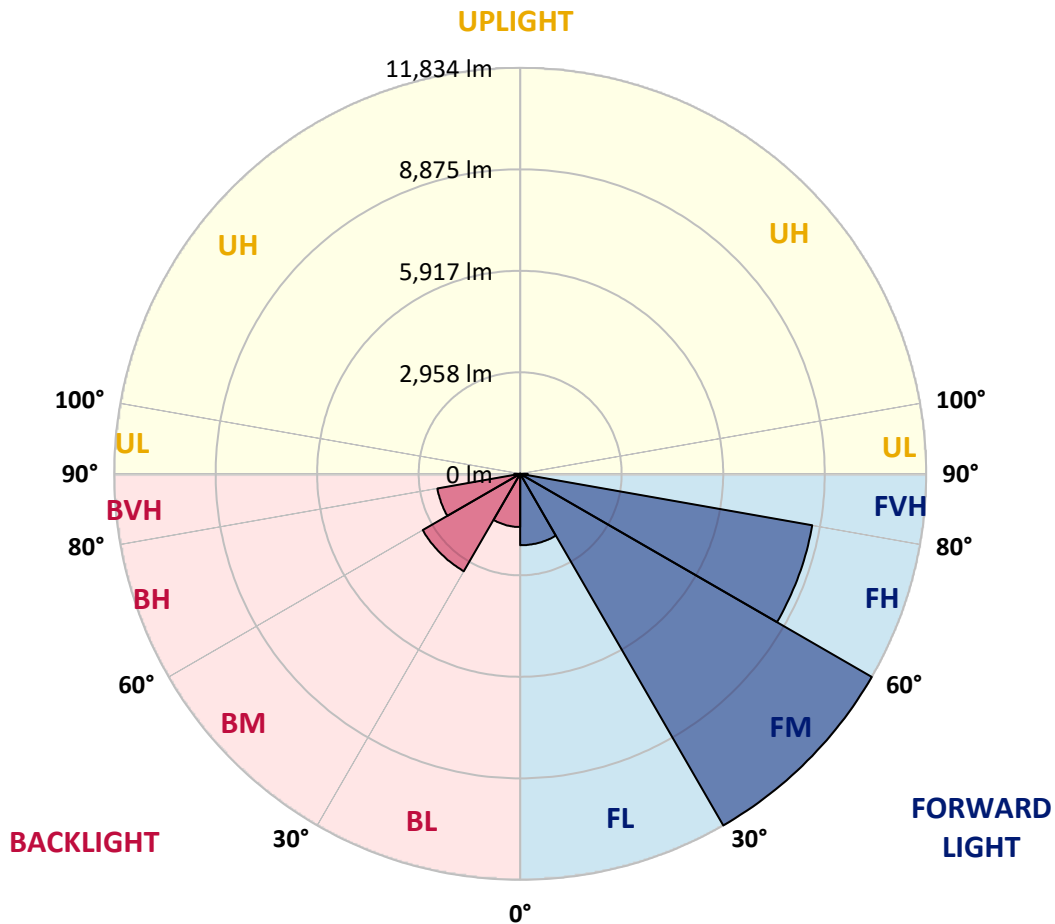
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2082.0	6.9			
FM (30°-60°)	11833.7	39.1			
FH (60°-80°)	8644.3	28.6			G4/12000
FVH (80°-90°)	221.4	0.7			G2/225
BL (0°-30°)	1550.6	5.1	B3/2500		
BM (30°-60°)	3279.3	10.8	B3/5000		
BH (60°-80°)	2449.7	8.1	B3/2500		G3/2500
BVH (80°-90°)	174.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8
2.5°	4538.7	4564.4	4556.4	4548.3	4548.3	4537.1	4535.5	4519.5	4506.6	4485.8
5°	4596.5	4623.7	4620.5	4627.0	4647.8	4652.6	4657.4	4647.8	4622.1	4596.5
7.5°	4545.1	4575.6	4585.2	4623.7	4687.9	4745.7	4789.0	4806.6	4782.6	4745.7
10°	4371.9	4405.6	4439.2	4530.7	4644.6	4781.0	4896.5	4965.5	4960.7	4925.4
12.5°	4020.5	4055.8	4128.0	4306.1	4514.7	4755.3	4970.3	5114.7	5164.4	5138.7
15°	3739.7	3770.2	3824.8	4007.7	4278.8	4644.6	4997.6	5278.3	5405.1	5390.6
17.5°	3731.7	3744.6	3778.3	3864.9	4073.5	4471.3	4968.7	5438.8	5681.0	5679.4
20°	3872.9	3877.7	3897.0	3914.6	4033.3	4339.8	4894.9	5571.9	5990.7	5990.7
22.5°	4068.6	4065.4	4084.7	4068.6	4126.4	4328.5	4848.4	5689.0	6335.6	6361.3
25°	4362.2	4346.2	4341.4	4304.5	4315.7	4432.8	4899.7	5822.2	6744.7	6797.6
27.5°	4753.7	4728.0	4710.4	4625.4	4596.5	4647.8	5056.9	5982.6	7200.3	7291.8
30°	5263.9	5217.4	5191.7	5044.1	4939.8	4947.8	5294.4	6196.0	7676.8	7824.4
32.5°	5960.2	5888.0	5819.0	5576.7	5385.8	5323.2	5600.8	6491.2	8193.4	8429.3
35°	6739.9	6682.1	6608.3	6234.5	5940.9	5796.5	6014.7	6903.5	8798.3	9172.1
37.5°	7490.7	7441.0	7476.3	6972.5	6593.9	6383.7	6557.0	7457.0	9544.3	10096.2
40°	8267.2	8228.7	8233.5	7752.2	7311.0	7075.2	7214.8	8151.7	10399.4	11195.2
42.5°	9111.1	9082.2	8986.0	8559.2	8063.5	7843.7	7972.0	8953.9	11317.1	12446.6
45°	10056.1	10038.4	9948.6	9459.3	8891.3	8644.3	8817.5	9839.5	12239.6	13624.2
47.5°	10872.7	10887.1	10875.9	10463.6	9874.8	9512.2	9719.2	10763.6	13097.9	14731.2
50°	11265.8	11341.2	11451.9	11323.5	10957.7	10588.7	10628.8	11655.6	13916.2	15769.2
52.5°	11060.4	11203.2	11504.8	11710.2	11851.4	11774.4	11666.9	12541.2	14686.3	16706.1
55°	10295.1	10495.7	10996.2	11492.0	12212.3	12772.3	12913.4	13523.1	15437.1	17530.8
57.5°	8901.0	9226.6	9675.9	10678.6	11891.5	13255.2	14367.0	14885.2	16232.9	18411.6
60°	6510.5	6946.9	7505.2	8997.2	10768.4	12996.9	15603.9	16977.3	17363.9	19552.3
62.5°	4166.5	4436.0	4949.4	6354.8	8390.8	11673.3	15982.6	19592.4	19281.1	21422.9
65°	2852.5	3025.8	3495.9	4285.2	5424.3	8689.2	14968.6	21552.9	22326.2	24387.8
67.5°	2072.8	2204.4	2605.5	3296.9	3534.4	5142.0	11615.5	21463.0	25286.2	27442.5
70°	1511.3	1604.4	1941.3	2605.5	2719.4	2860.6	7036.7	18244.7	25222.0	28254.3
72.5°	1119.8	1184.0	1410.2	2021.5	2201.2	1931.6	3483.1	13260.0	21673.2	25555.7
75°	810.2	858.3	1025.2	1546.6	1761.6	1471.2	1737.5	7749.0	15117.8	17976.8
77.5°	619.3	656.2	765.3	1132.7	1410.2	1103.8	1078.1	3564.9	7168.3	7203.5
80°	497.3	521.4	580.8	797.4	1081.3	826.2	702.7	1439.1	2265.3	1917.2
82.5°	365.8	405.9	490.9	559.9	773.3	569.5	428.4	726.8	861.5	741.2
85°	208.6	235.8	296.8	401.1	494.1	348.1	245.5	322.5	401.1	328.9
87.5°	73.8	96.3	104.3	157.2	215.0	144.4	94.7	93.1	131.6	97.9
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°
4432.8	0°	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8	4432.8
4481.0	2.5°	4464.9	4456.9	4424.8	4381.5	4336.6	4293.3	4278.8	4248.3	4227.5	4216.2
4585.2	5°	4554.8	4529.1	4453.7	4357.4	4256.4	4147.3	4070.2	3999.7	3948.3	3900.2
4728.0	7.5°	4683.1	4638.2	4508.2	4339.8	4160.1	3978.8	3844.0	3741.4	3672.4	3627.4
4894.9	10°	4832.3	4763.3	4564.4	4312.5	4034.9	3775.0	3616.2	3528.0	3484.7	3460.6
5085.8	12.5°	5004.0	4906.1	4622.1	4249.9	3844.0	3547.2	3438.1	3412.5	3414.1	3415.7
5326.5	15°	5215.8	5079.4	4668.7	4113.6	3595.4	3372.4	3353.1	3394.8	3438.1	3459.0
5599.2	17.5°	5454.8	5262.3	4676.7	3889.0	3351.5	3260.0	3321.0	3410.9	3476.6	3505.5
5904.0	20°	5711.5	5448.4	4618.9	3571.3	3151.0	3168.6	3277.7	3393.2	3465.4	3502.3
6252.2	22.5°	6005.1	5647.3	4481.0	3237.6	2987.3	3069.1	3197.5	3309.8	3385.2	3422.1
6661.3	25°	6340.4	5870.3	4264.4	2956.8	2846.1	2956.8	3085.2	3178.2	3239.2	3272.9
7118.5	27.5°	6712.6	6103.0	3975.6	2733.8	2722.6	2841.3	2947.2	3019.4	3051.5	3077.2
7604.6	30°	7086.4	6314.7	3625.8	2565.4	2615.1	2727.4	2802.8	2834.9	2844.5	2849.3
8146.9	32.5°	7490.7	6497.6	3258.4	2425.8	2512.4	2616.7	2661.6	2676.1	2631.1	2600.7
8804.7	35°	7980.1	6693.4	2899.1	2315.1	2411.3	2501.2	2515.6	2502.8	2449.8	2387.3
9629.3	37.5°	8584.9	6937.2	2611.9	2236.5	2316.7	2376.0	2358.4	2355.2	2360.0	2286.2
10620.8	40°	9326.1	7254.9	2401.7	2175.5	2239.7	2252.5	2202.8	2230.1	2254.1	2141.8
11708.6	42.5°	10149.1	7638.3	2268.6	2133.8	2175.5	2145.0	2068.0	2098.5	2095.3	1947.7
12801.1	45°	10988.2	8055.5	2222.0	2103.3	2116.1	2055.2	1970.1	1978.2	1910.8	1777.6
13848.8	47.5°	11822.5	8503.1	2250.9	2077.6	2042.3	1973.4	1907.6	1872.3	1772.8	1673.3
14853.1	50°	12640.7	8973.1	2356.8	2026.3	1941.3	1901.2	1853.0	1790.5	1684.6	1599.5
15802.9	52.5°	13399.6	9446.4	2475.5	1941.3	1814.5	1838.6	1808.1	1735.9	1631.6	1545.0
16701.3	55°	14118.3	9919.7	2522.0	1824.2	1695.8	1784.0	1766.4	1633.2	1508.1	1437.5
17641.5	57.5°	14901.2	10489.3	2470.7	1674.9	1599.5	1721.5	1654.1	1506.5	1434.3	1381.3
18865.6	60°	15985.8	11382.9	2360.0	1490.4	1508.1	1628.4	1512.9	1451.9	1373.3	1314.0
20701.0	62.5°	17787.5	13049.8	2181.9	1307.5	1400.6	1490.4	1445.5	1384.6	1304.3	1246.6
23839.1	65°	20450.7	15366.5	1846.6	1164.8	1280.3	1355.7	1373.3	1312.4	1228.9	1168.0
26589.0	67.5°	22696.8	16820.0	1397.4	1046.0	1156.7	1246.6	1296.3	1237.0	1148.7	1089.4
27232.3	70°	22573.3	15764.4	1066.9	928.9	1047.6	1139.1	1203.3	1156.7	1062.1	1005.9
24735.9	72.5°	20049.6	13187.8	863.1	810.2	936.9	1026.8	1103.8	1068.5	972.2	917.7
18121.2	75°	14729.6	9361.4	689.9	689.9	799.0	909.7	994.7	972.2	884.0	845.5
7607.8	77.5°	6208.8	3927.5	540.7	572.8	664.2	781.3	887.2	895.2	818.2	866.4
2011.9	80°	1650.9	1082.9	412.3	450.8	521.4	645.0	771.7	768.5	685.1	640.1
747.6	82.5°	628.9	426.8	293.6	317.7	377.0	494.1	611.3	630.5	547.1	473.3
293.6	85°	242.3	182.9	181.3	190.9	219.8	327.3	462.1	478.1	412.3	349.7
81.8	87.5°	62.6	54.5	67.4	64.2	101.1	174.9	264.7	274.3	251.9	146.0
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>
4432.8
4229.1
3919.4
3637.1
3467.0
3418.9
3457.4
3511.9
3511.9
3431.7
3282.5
3086.8
2860.6
2610.3
2390.5
2291.0
2145.0
1946.1
1782.4
1673.3
1593.1
1546.6
1431.1
1376.5
1310.8
1246.6
1171.2
1091.0
<i>1010.7</i>
917.7
834.3
786.1
595.2
473.3
361.0
208.6
0.0

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