

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: P954286

Luminaire Tested: **GALN-SB7C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47567 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

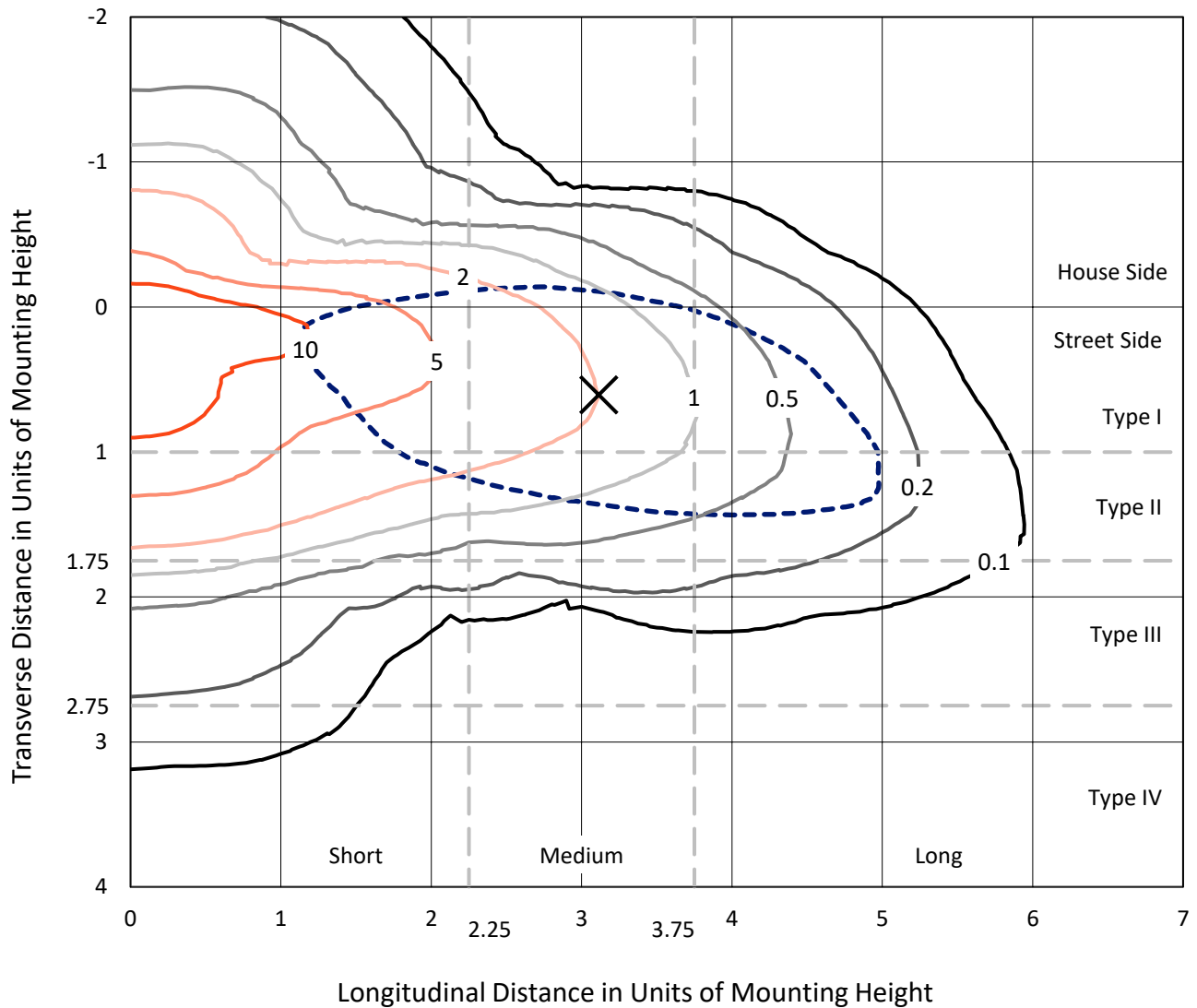
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

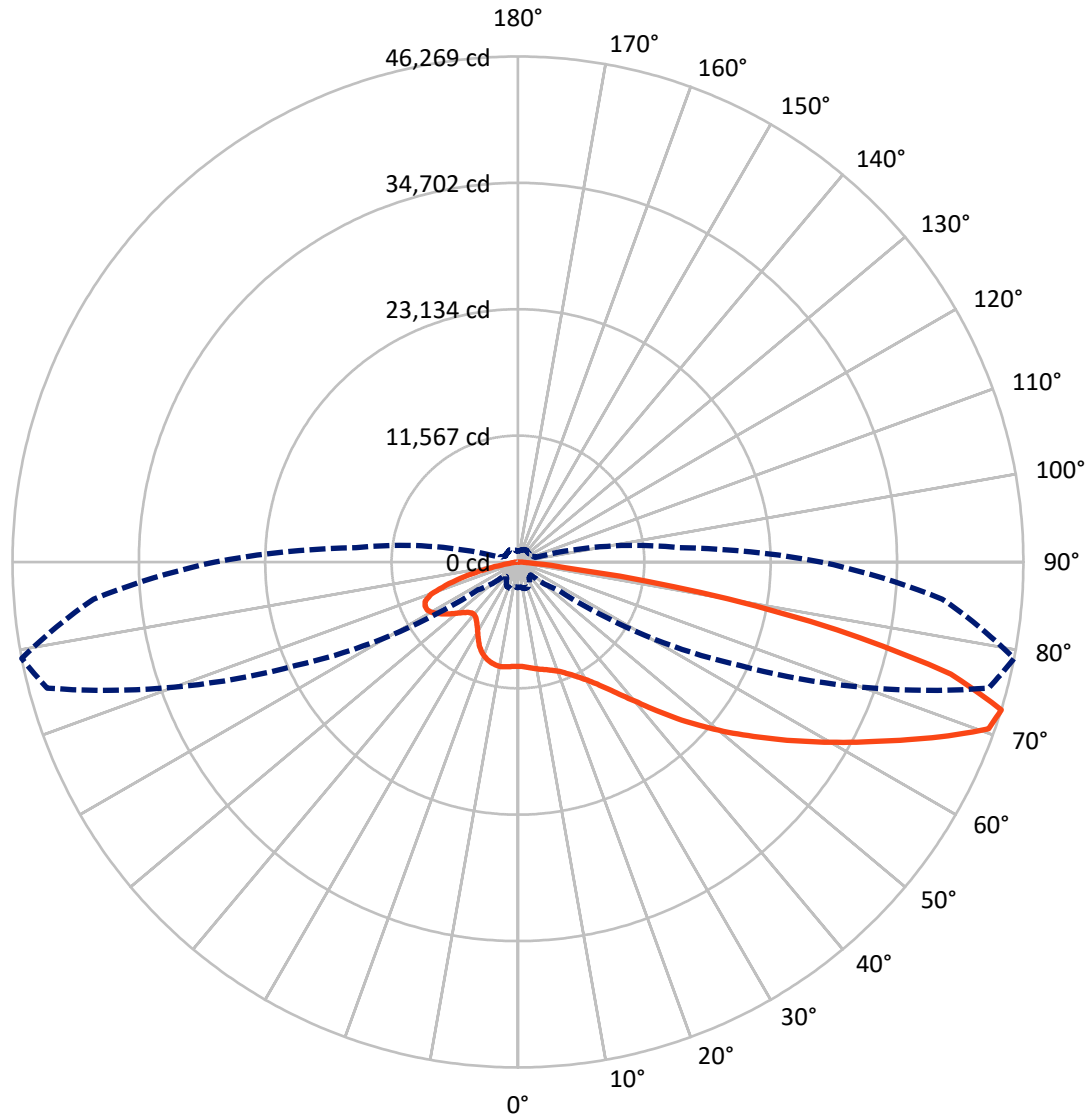
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB7C-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10467.4	0.0	10467.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	37099.6	0.0	37099.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	47567.0	0.0	47567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.7	1.8
10°-20°	2266.1	4.8
20°-30°	3656.5	7.7
30°-40°	5488.0	11.5
40°-50°	7785.0	16.4
50°-60°	9831.4	20.7
60°-70°	9985.1	21.0
70°-80°	6805.3	14.3
80°-90°	882.9	1.9
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°	47567.0	100.0
0°-180°	47567.0	100.0

Coefficient of Utilization

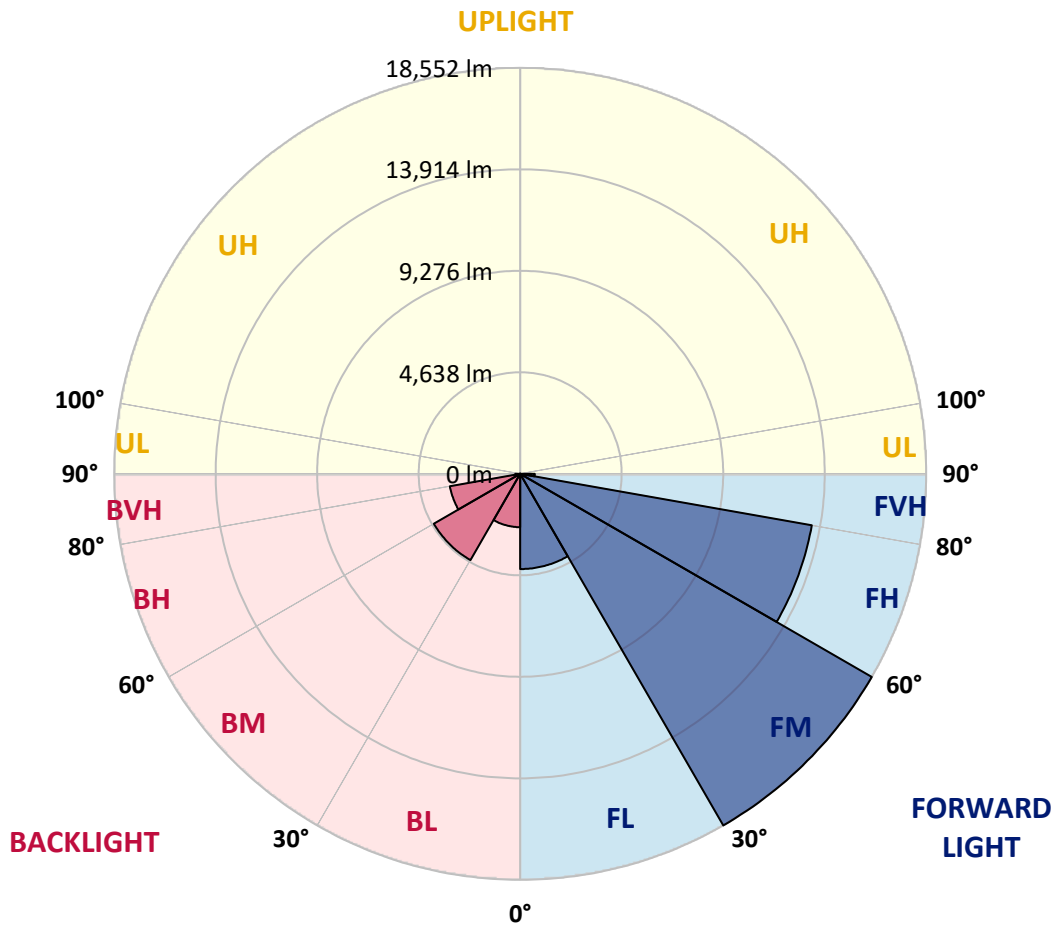


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4351.2	9.1			
FM (30°-60°)	18552.1	39.0			
FH (60°-80°)	13531.2	28.4			G5
FVH (80°-90°)	665.1	1.4			G4/750
BL (0°-30°)	2438.1	5.1	B3/2500		
BM (30°-60°)	4552.2	9.6	B3/5000		
BH (60°-80°)	3259.2	6.9	B4/5000		G4/5000
BVH (80°-90°)	217.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6
2.5°	9553.7	9508.4	9536.0	9526.0	9538.6	9553.7	9558.7	9566.2	9591.4	9588.9
5°	9533.5	9488.2	9526.0	9513.4	9546.1	9581.3	9611.5	9639.2	9679.5	9697.1
7.5°	9490.8	9460.6	9498.3	9536.0	9596.4	9649.3	9692.0	9754.9	9812.8	9822.9
10°	9241.7	9219.0	9307.1	9405.2	9571.3	9714.7	9807.8	9880.7	9943.7	9953.7
12.5°	8982.5	8954.8	9053.0	9186.3	9455.5	9714.7	9910.9	10006.6	10061.9	10094.6
15°	8939.7	8917.1	8972.4	9088.2	9312.1	9646.8	9981.4	10157.5	10205.3	10243.1
17.5°	9146.0	9103.3	9125.9	9166.2	9297.0	9583.8	10036.7	10328.6	10401.6	10441.8
20°	9624.1	9563.7	9528.5	9448.0	9425.3	9593.9	10031.7	10534.9	10630.5	10680.9
22.5°	10260.7	10220.4	10144.9	9941.1	9719.7	9717.2	10127.3	10799.1	10977.8	11025.6
25°	11030.6	10970.2	10874.6	10597.8	10172.6	9961.3	10288.4	11136.3	11435.7	11448.3
27.5°	11916.3	11825.7	11694.9	11330.0	10756.4	10343.7	10534.9	11523.8	11961.6	11956.5
30°	12849.8	12759.2	12620.8	12178.0	11455.8	10859.5	10877.1	11941.4	12585.6	12557.9
32.5°	13531.6	13463.7	13436.0	13093.8	12261.0	11468.4	11269.6	12404.4	13355.5	13330.3
35°	14055.0	13966.9	13999.6	13826.0	13139.1	12150.3	11750.2	12955.4	14291.5	14289.0
37.5°	14573.3	14495.3	14523.0	14407.2	13951.8	13015.8	12336.5	13629.7	15451.4	15506.8
40°	15046.3	14963.3	15074.0	14965.8	14583.4	13936.7	13003.2	14392.1	16795.0	16900.7
42.5°	15330.6	15265.2	15448.9	15451.4	15131.9	14714.2	13735.4	15232.5	18350.0	18586.5
45°	15428.8	15406.1	15682.9	15740.8	15617.5	15164.6	14394.6	16148.4	20025.7	20448.4
47.5°	15323.1	15280.3	15662.8	15876.6	15974.8	15375.9	14940.6	17139.7	21736.6	22355.6
50°	14789.7	14706.6	15275.3	15725.7	16075.4	15514.3	15491.7	18284.5	23681.6	24358.4
52.5°	13831.0	13768.1	14414.8	15197.3	15854.0	15582.2	16110.6	19535.0	25528.4	26404.0
55°	12605.7	12522.7	13234.7	14256.3	15303.0	15559.6	16729.6	20934.0	27707.4	28595.5
57.5°	10663.3	10497.2	11398.0	12605.7	14404.7	15531.9	17373.7	22325.4	29921.5	30985.8
60°	7830.1	7583.5	8688.1	10119.8	12648.5	15262.7	18171.3	23885.4	32578.5	33537.2
62.5°	4559.2	4415.8	5137.9	6473.9	9533.5	13677.6	18619.2	25699.5	35190.3	36196.7
65°	3540.2	3499.9	3562.8	3666.0	5306.5	10240.6	17237.8	27468.3	38511.5	39216.0
67.5°	3238.2	3208.0	3235.7	3042.0	2692.2	5704.0	13637.3	27916.2	42069.3	42497.0
70°	2878.4	2843.2	2933.8	2767.7	2118.6	2594.1	8811.4	26290.8	44899.9	45702.6
72.5°	2345.0	2304.8	2516.1	2440.6	1783.9	1665.7	4425.8	22428.6	44603.0	46268.7
75°	1801.5	1778.9	2030.5	2093.4	1454.3	1310.9	2123.6	16671.7	39251.3	40929.5
77.5°	1399.0	1381.3	1509.7	1738.6	1172.5	1016.5	1305.9	10575.2	29579.3	29873.7
80°	1049.2	998.9	1117.2	1346.1	913.3	742.3	885.7	6167.0	18697.2	16948.5
82.5°	656.7	631.5	729.7	898.2	644.1	510.8	576.2	3406.8	7493.0	4413.3
85°	374.9	364.8	397.5	513.3	349.7	294.4	329.6	1504.6	1368.8	941.0
87.5°	151.0	145.9	181.2	229.0	128.3	108.2	115.7	362.3	301.9	279.3
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°
9548.6	0°	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6	9548.6
9586.4	2.5°	9576.3	9576.3	9541.1	9485.7	9422.8	9382.6	9317.1	9299.5	9231.6	9211.5
9671.9	5°	9692.0	9671.9	9563.7	9407.7	9193.9	8997.6	8781.2	8645.3	8454.1	8386.2
9840.5	7.5°	9838.0	9782.6	9596.4	9254.2	8806.4	8366.1	7908.1	7560.9	7228.8	7110.5
9978.9	10°	9971.3	9893.3	9576.3	8977.5	8202.5	7440.1	6710.5	6199.7	5812.2	5653.7
10132.4	12.5°	10104.7	9961.3	9442.9	8517.0	7344.5	6310.4	5532.9	5135.4	4896.3	4705.1
10258.2	15°	10230.5	10029.2	9236.6	7900.6	6403.5	5354.3	4780.6	4463.6	4272.3	4146.5
10441.8	17.5°	10376.4	10087.1	8927.1	7118.1	5507.8	4692.5	4224.5	4033.3	3995.6	3980.5
10693.5	20°	10580.2	10139.9	8519.5	6242.5	4848.5	4164.2	3922.6	3905.0	3902.5	3894.9
10995.4	22.5°	10799.1	10202.8	7981.1	5447.4	4287.4	3834.5	3791.8	3756.5	3733.9	3731.4
11360.2	25°	11058.3	10222.9	7306.8	4795.7	3809.4	3678.5	3628.2	3575.4	3560.3	3560.3
11775.4	27.5°	11309.9	10155.0	6521.7	4229.6	3540.2	3535.1	3469.7	3452.1	3449.6	3457.1
12248.4	30°	11561.5	10026.7	5741.8	3706.2	3384.2	3384.2	3361.5	3374.1	3384.2	3409.3
12897.6	32.5°	11901.2	9890.8	5090.1	3318.7	3248.3	3223.1	3245.8	3270.9	3281.0	3313.7
13750.5	35°	12399.4	9795.2	4571.8	3107.4	3107.4	3074.7	3087.3	3082.2	3059.6	3044.5
14782.1	37.5°	13058.6	9790.2	4144.0	3009.3	2989.1	2984.1	2986.6	2953.9	2865.8	2760.2
16030.1	40°	13851.2	9926.0	3814.4	2941.3	2926.2	2956.4	2941.3	2853.3	2611.7	2428.0
17564.9	42.5°	14915.5	10313.5	3603.1	2858.3	2903.6	2941.3	2880.9	2576.5	2412.9	2289.7
19313.6	45°	16168.5	10942.5	3494.9	2770.2	2860.8	2906.1	2614.2	2480.9	2350.0	2201.6
21220.8	47.5°	17587.6	11735.1	3469.7	2687.2	2765.2	2792.9	2501.0	2440.6	2292.2	2131.1
23138.1	50°	19132.5	12673.6	3537.6	2589.1	2626.8	2531.2	2463.3	2407.9	2254.4	2095.9
25103.2	52.5°	20730.2	13707.7	3673.5	2455.7	2488.4	2382.8	2448.2	2400.4	2231.8	2017.9
27133.7	55°	22300.2	14749.4	3804.4	2299.7	2347.5	2249.4	2405.4	2370.2	2128.6	1887.1
29300.1	57.5°	23895.5	15786.1	3932.7	2161.3	2211.7	2121.1	2337.5	2289.7	2012.9	1766.3
31665.2	60°	25553.6	16792.5	3993.1	2028.0	2063.2	2002.8	2234.3	2151.3	1882.0	1643.0
33990.1	62.5°	27106.0	17630.4	3894.9	1894.6	1917.3	1892.1	2098.4	1987.7	1751.2	1504.6
36413.1	65°	28663.5	18128.5	3593.0	1763.8	1768.8	1756.2	1907.2	1811.6	1597.7	1383.9
38534.2	67.5°	30075.0	18407.8	3112.4	1622.9	1610.3	1605.3	1728.6	1620.4	1449.3	1263.1
40147.0	70°	30374.4	17698.3	2377.7	1456.8	1456.8	1444.2	1532.3	1421.6	1285.7	1134.8
38992.1	72.5°	27742.6	14887.8	1688.3	1268.1	1288.2	1263.1	1336.1	1243.0	1119.7	1019.0
33605.1	75°	22370.7	10917.4	1227.9	1074.4	1109.6	1066.8	1134.8	1069.3	963.7	961.2
23158.2	77.5°	15370.9	6750.7	890.7	885.7	910.8	855.5	933.5	898.2	802.6	759.9
10079.5	80°	6559.5	2692.2	649.2	684.4	684.4	634.1	724.6	734.7	651.7	631.5
1945.0	82.5°	1305.9	764.9	455.4	470.5	442.8	427.7	513.3	568.6	785.0	873.1
586.3	85°	392.5	281.8	274.3	256.6	226.4	229.0	301.9	571.2	704.5	402.6
193.7	87.5°	108.2	70.5	73.0	57.9	47.8	62.9	103.2	432.8	236.5	100.6
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>
9548.6
9244.2
8436.5
7125.6
5688.9
4768.0
4169.2
3990.5
3920.1
3759.1
3575.4
3477.3
3426.9
3341.4
3079.7
2762.7
2423.0
2284.6
2191.5
2118.6
2078.3
2002.8
1874.5
1761.3
1635.5
1502.1
1368.8
1248.0
1129.7
988.8
865.5
712.1
631.5
875.6
347.2
85.5
0.0

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