

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: P953217

Luminaire Tested: **GALN-SB6D-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953217
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-SB6D-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 54191 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

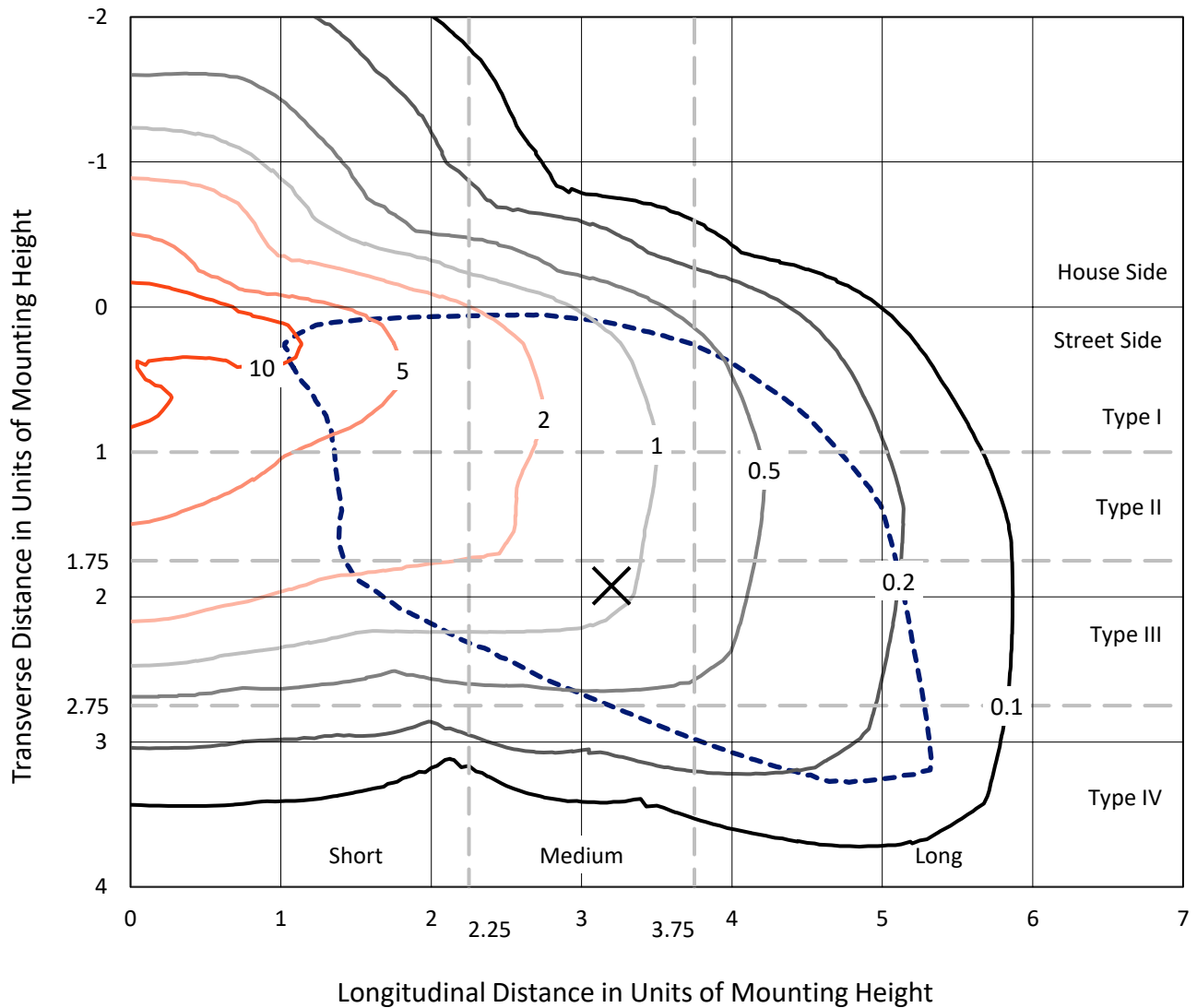
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

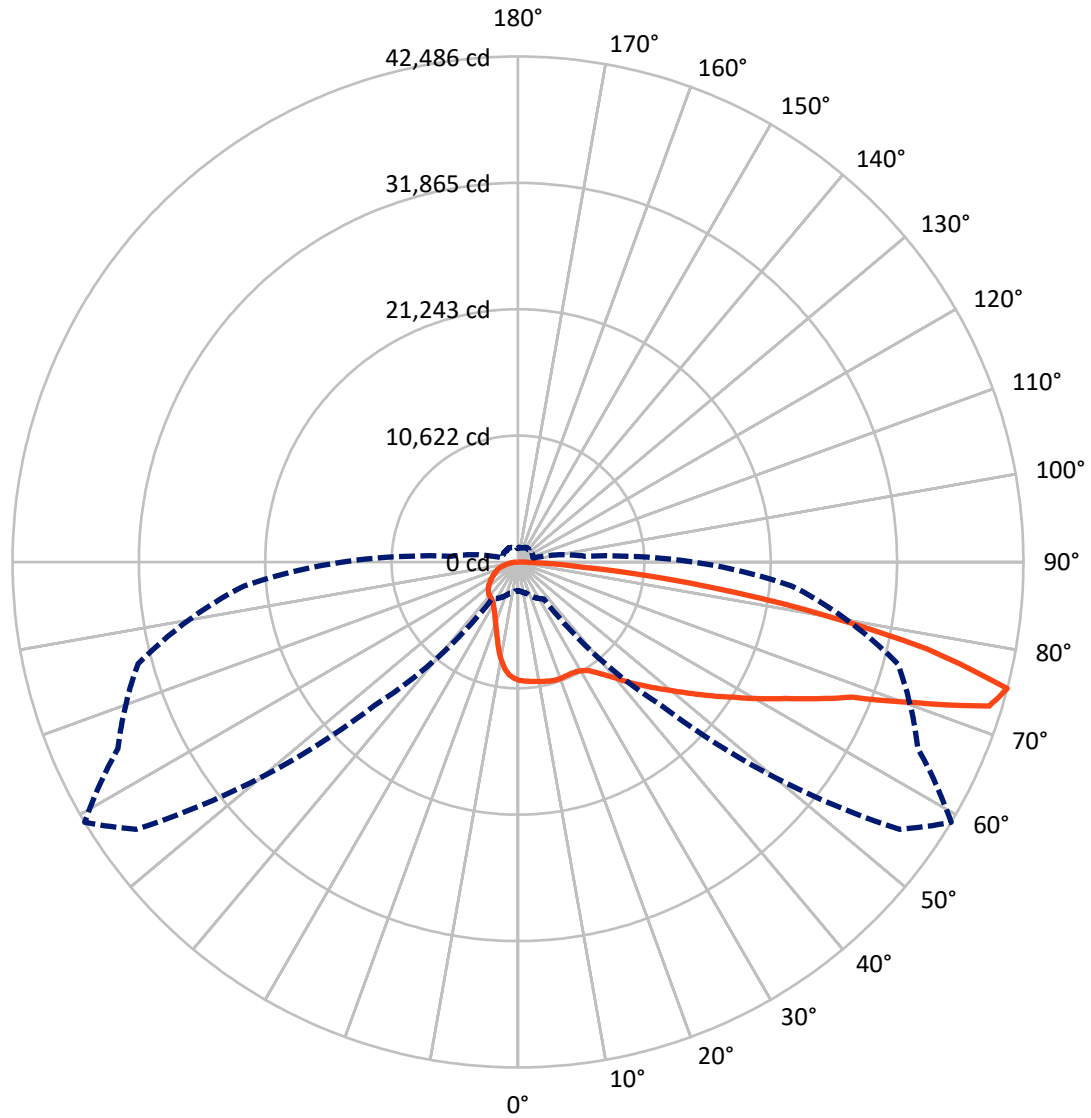
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	10163.9	0.0	10163.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	44027.1	0.0	44027.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	54191.0	0.0	54191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.9	1.6
10°-20°	2279.7	4.2
20°-30°	3462.7	6.4
30°-40°	5147.2	9.5
40°-50°	7654.7	14.1
50°-60°	10390.4	19.2
60°-70°	12685.0	23.4
70°-80°	9955.0	18.4
80°-90°	1724.5	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°	54191.0	100.0
0°-180°	54191.0	100.0

Coefficient of Utilization

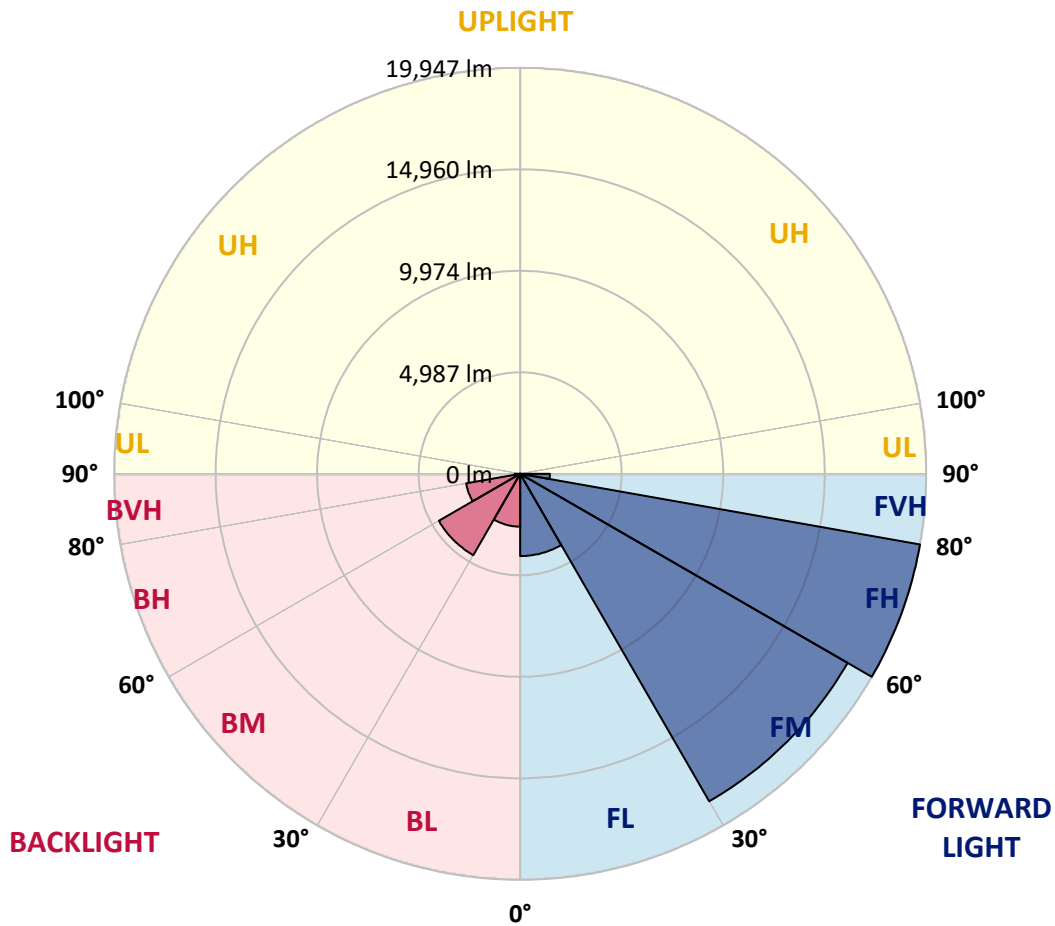


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4040.5	7.5			
FM (30°-60°)	18578.9	34.3			
FH (60°-80°)	19947.2	36.8			G5
FVH (80°-90°)	1460.5	2.7			G5
BL (0°-30°)	2593.7	4.8	B4/5000		
BM (30°-60°)	4613.4	8.5	B3/5000		
BH (60°-80°)	2692.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	264.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6
2.5°	10031.2	9996.2	10031.2	10016.6	10010.8	9999.1	10002.0	10022.4	10010.8	10025.3
5°	9964.1	9943.7	9978.7	9970.0	10007.9	10013.7	10051.6	10074.9	10089.5	10092.4
7.5°	9853.4	9832.9	9882.5	9923.3	10004.9	10028.3	10107.0	10144.9	10165.3	10200.3
10°	9448.1	9439.4	9561.8	9716.3	9908.7	10028.3	10147.8	10211.9	10244.0	10337.3
12.5°	8731.0	8742.7	8903.0	9200.3	9585.2	9970.0	10194.4	10287.7	10337.3	10453.9
15°	8045.9	8043.0	8217.9	8535.7	9075.0	9713.4	10217.8	10378.1	10462.6	10634.6
17.5°	7649.5	7637.8	7760.2	8002.2	8503.6	9319.9	10159.4	10427.6	10608.4	10824.1
20°	7576.6	7553.3	7617.4	7736.9	8092.6	8888.4	10007.9	10427.6	10725.0	11004.9
22.5°	7841.9	7804.0	7777.7	7763.2	7920.6	8532.8	9835.9	10392.7	10897.0	11264.3
25°	8375.3	8317.0	8182.9	8051.8	8005.1	8372.4	9684.3	10383.9	11153.5	11614.1
27.5°	9238.2	9165.4	8894.3	8579.4	8296.6	8454.1	9617.2	10436.4	11436.3	11984.4
30°	10308.1	10229.4	9888.3	9404.4	8897.2	8757.2	9701.8	10590.9	11797.8	12477.0
32.5°	11267.2	11179.8	10888.2	10395.6	9710.5	9282.0	9970.0	10885.3	12366.2	13162.1
35°	12118.5	12016.4	11754.1	11299.3	10707.5	10019.5	10453.9	11407.1	13173.8	14275.7
37.5°	12952.2	12832.7	12547.0	12066.0	11652.0	11001.9	11121.5	12077.6	14246.5	15628.3
40°	13885.1	13713.1	13366.2	12891.0	12488.7	12153.4	11998.9	12899.7	15336.8	17138.4
42.5°	14788.8	14625.5	14211.6	13806.4	13302.0	13205.8	13016.3	13861.7	16529.1	18797.2
45°	15762.4	15567.1	15065.7	14552.6	14234.9	13905.5	14001.7	14823.8	17698.1	20488.0
47.5°	16674.9	16456.3	15864.5	15293.1	15118.2	14494.3	14905.4	15882.0	18913.8	22202.1
50°	17167.6	16951.8	16459.2	15943.2	15806.2	15220.2	15884.9	17045.1	20187.7	23910.4
52.5°	17578.6	17345.4	16701.1	16415.4	16374.6	16010.2	17091.8	18374.5	21461.6	25420.5
55°	18015.9	17756.4	16934.4	16677.8	16864.4	16896.5	18523.1	19881.6	22808.5	26892.7
57.5°	18520.2	18190.8	17158.8	16899.4	17342.5	17934.3	20167.3	21444.2	24132.0	28257.0
60°	18995.4	18663.1	17590.3	17252.1	17858.5	19138.2	22053.4	23336.1	25630.4	29472.6
62.5°	19088.7	18814.7	17934.3	17931.3	18558.1	20543.4	24286.5	25245.6	26939.3	30673.7
65°	17473.7	17301.7	16779.8	17905.1	19560.9	22566.5	26773.1	27688.5	28603.9	31723.1
67.5°	13299.1	13322.4	13284.5	15456.4	18750.5	25473.0	30373.4	30303.4	30659.1	32900.9
70°	6081.1	6218.1	7110.2	10669.6	15022.0	25808.2	36326.2	35419.6	33239.0	34425.5
72.5°	3285.4	3390.4	3754.8	5168.6	9031.3	22945.5	40774.8	41419.1	36670.2	35451.7
75°	2410.9	2469.2	2722.8	3285.4	3792.7	17053.9	39180.2	42486.0	37098.7	33058.3
77.5°	1804.5	1830.7	2037.7	2603.3	1941.5	8990.5	31306.3	35186.4	31758.1	27160.8
80°	1308.9	1338.1	1492.6	1953.2	1361.4	3288.3	21496.6	24697.5	21750.3	17313.3
82.5°	903.7	915.4	982.4	1329.3	950.4	1276.9	12197.2	14482.7	12141.8	6075.3
85°	545.1	559.7	588.9	775.4	539.3	606.4	5264.8	5445.6	3629.4	1451.8
87.5°	224.5	239.0	262.4	326.5	212.8	169.1	868.7	1090.3	679.2	425.6
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°
9946.6	0°	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6	9946.6
9975.8	2.5°	9961.2	9940.8	9885.4	9809.6	9739.7	9652.2	9614.3	9582.2	9553.1	9497.7
10054.5	5°	10022.4	9967.0	9818.4	9626.0	9407.3	9168.3	8935.1	8774.7	8637.7	8535.7
10144.9	7.5°	10115.7	10010.8	9739.7	9346.1	8844.7	8331.6	7868.1	7538.7	7290.9	7200.5
10273.1	10°	10211.9	10086.6	9614.3	8920.5	8054.7	7264.7	6649.6	6311.4	6113.2	6049.0
10424.7	12.5°	10325.6	10142.0	9419.0	8328.7	7171.4	6305.6	5769.2	5570.9	5468.9	5433.9
10611.3	15°	10491.8	10188.6	9124.6	7588.2	6328.9	5605.9	5259.0	5122.0	5069.5	5066.6
10803.7	17.5°	10617.1	10197.3	8666.9	6795.3	5681.7	5183.2	4897.5	4845.1	4880.0	4932.5
10993.2	20°	10757.1	10118.6	8066.3	6072.3	5226.9	4813.0	4693.5	4728.4	4813.0	4888.8
11243.9	22.5°	10856.2	9975.8	7340.5	5509.7	4833.4	4600.2	4594.3	4667.2	4713.9	4751.8
11538.3	25°	10943.6	9733.8	6570.8	5037.5	4509.8	4471.9	4536.0	4512.7	4480.7	4512.7
11832.8	27.5°	11007.8	9351.9	5882.9	4623.5	4282.4	4384.4	4346.6	4294.1	4291.2	4308.7
12179.7	30°	10987.4	8841.8	5317.3	4229.9	4122.1	4221.2	4130.8	4122.1	4113.3	4122.1
12701.5	32.5°	10987.4	8261.7	4882.9	3958.8	4020.1	3982.2	3973.4	3953.0	3918.0	3915.1
13409.9	35°	11048.6	7681.5	4509.8	3813.1	3935.5	3845.1	3851.0	3801.4	3728.5	3693.5
14348.6	37.5°	11173.9	7215.1	4139.6	3743.1	3786.8	3783.9	3760.6	3676.1	3547.8	3437.0
15520.5	40°	11477.1	7078.1	3886.0	3711.0	3716.9	3751.9	3690.6	3527.4	3235.9	3055.1
16709.9	42.5°	11952.3	7308.4	3830.6	3632.3	3670.2	3705.2	3585.7	3206.7	2999.7	2891.9
17957.6	45°	12555.7	7710.7	3950.1	3518.6	3559.5	3620.7	3265.0	3084.3	2991.0	2993.9
19193.6	47.5°	13319.5	8133.4	4171.6	3419.5	3399.1	3434.1	3052.2	2941.4	2813.2	2845.2
20380.1	50°	14202.8	8561.9	4381.5	3285.4	3221.3	3107.6	2915.2	2810.2	2647.0	2571.2
21525.8	52.5°	15159.0	8975.9	4466.1	3122.2	3028.9	2897.7	2821.9	2693.6	2495.4	2370.1
22607.3	55°	16065.6	9351.9	4372.8	2926.9	2836.5	2734.5	2722.8	2644.1	2431.3	2256.4
23569.3	57.5°	16922.7	9666.8	4139.6	2728.6	2641.2	2579.9	2658.7	2620.8	2352.6	2128.1
24478.9	60°	17648.6	9882.5	3801.4	2527.5	2466.3	2434.2	2553.7	2542.0	2241.8	1991.1
25295.1	62.5°	18225.8	9967.0	3428.3	2335.1	2320.5	2262.2	2407.9	2407.9	2101.9	1857.0
26012.3	65°	18677.6	9885.4	3049.3	2145.6	2174.7	2087.3	2230.1	2212.6	1953.2	1737.5
26837.3	67.5°	19077.0	9617.2	2629.5	1959.0	2026.1	1915.3	2043.6	2002.7	1789.9	1617.9
27551.5	70°	19254.8	8993.4	2151.4	1772.4	1854.1	1746.2	1857.0	1781.2	1606.3	1489.7
26767.3	72.5°	17826.4	7474.6	1693.7	1577.1	1647.1	1559.6	1655.8	1568.4	1408.0	1355.6
23114.6	75°	14748.0	5608.8	1303.1	1364.3	1416.8	1349.7	1413.9	1349.7	1204.0	1241.9
17074.3	77.5°	10710.4	3786.8	997.0	1139.8	1163.2	1128.2	1183.6	1110.7	979.5	970.8
8509.4	80°	5326.1	2218.5	781.3	900.8	892.0	868.7	932.9	897.9	787.1	833.7
2297.2	82.5°	1542.1	950.4	568.5	632.6	615.1	620.9	667.6	685.1	1026.1	1017.4
714.2	85°	483.9	373.1	341.1	352.7	335.2	344.0	393.6	781.3	723.0	422.7
221.6	87.5°	125.4	128.3	84.5	90.4	93.3	110.8	125.4	475.2	227.4	148.7
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>
9946.6
9471.5
8451.1
7043.1
5949.9
5442.7
5078.3
4952.9
4915.0
4772.2
4533.1
4337.8
4154.1
3953.0
3728.5
3474.9
3078.4
2891.9
3008.5
2926.9
2591.6
2367.1
2256.4
2116.4
1982.3
1848.2
1725.8
1606.3
1466.3
1311.8
<i>1134.0</i>
927.0
825.0
1040.7
457.7
157.4
0.0

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