

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: P956071

Luminaire Tested: **GALN-SB8D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956071
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-SB8D-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73490 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

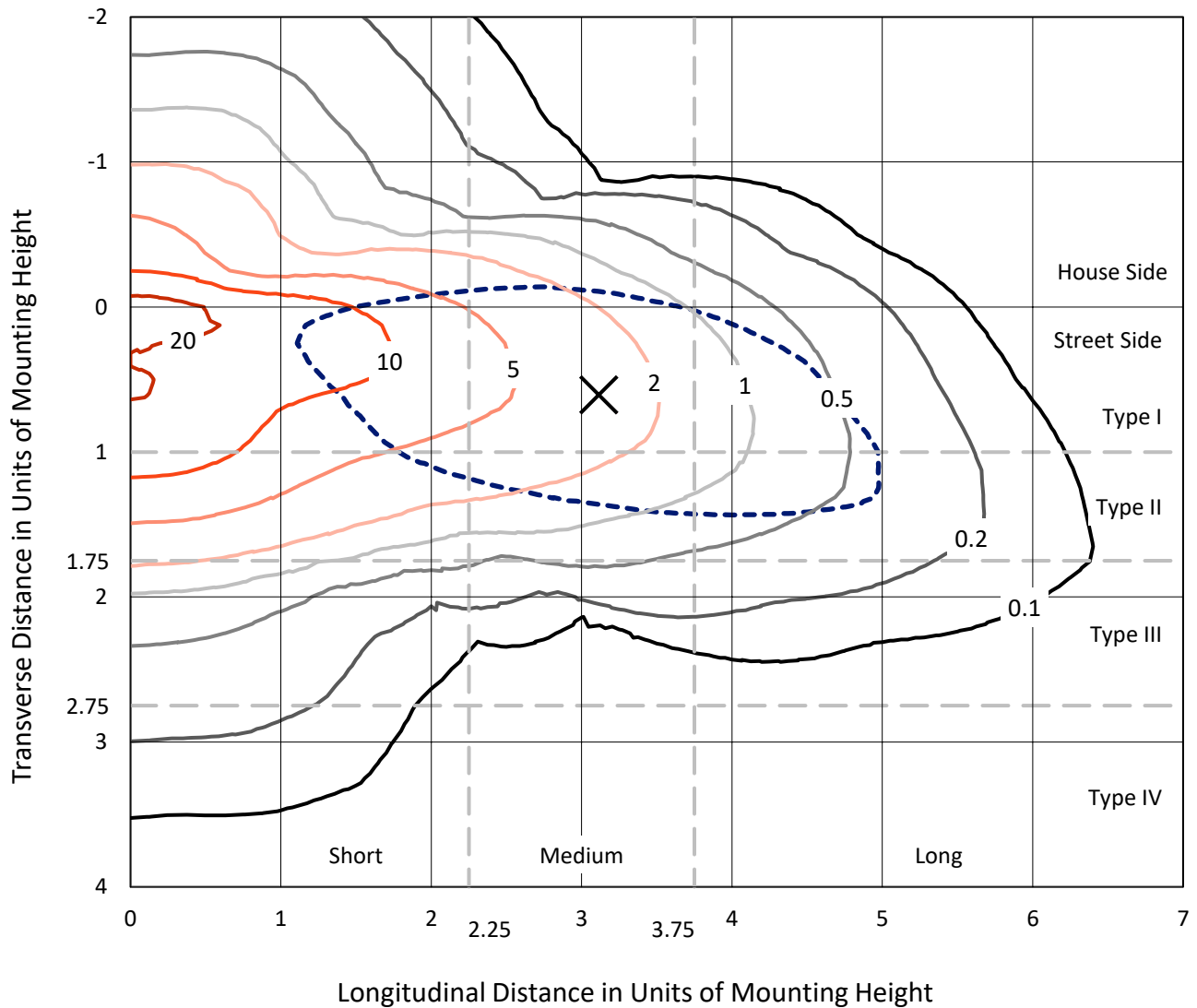
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

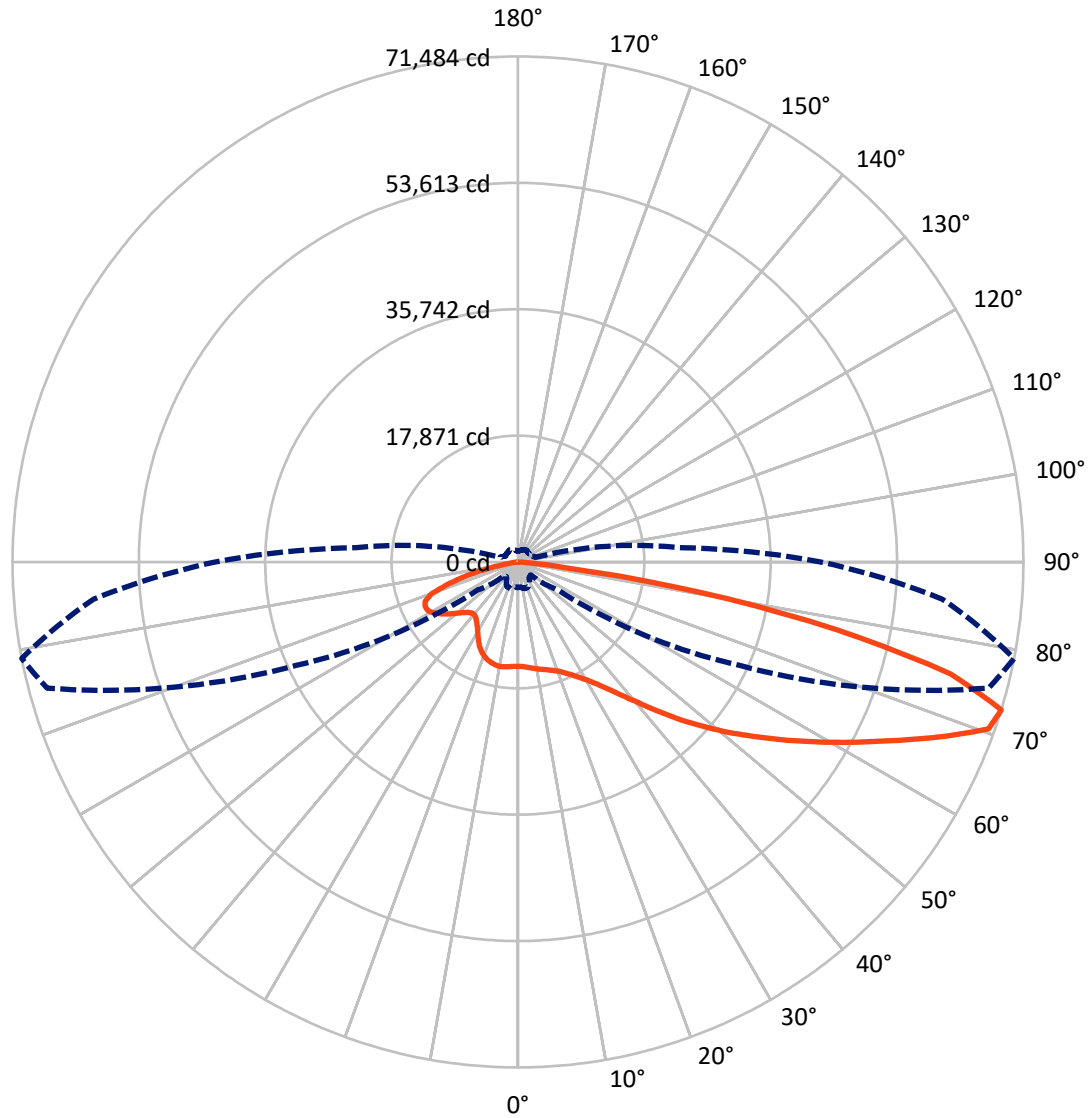
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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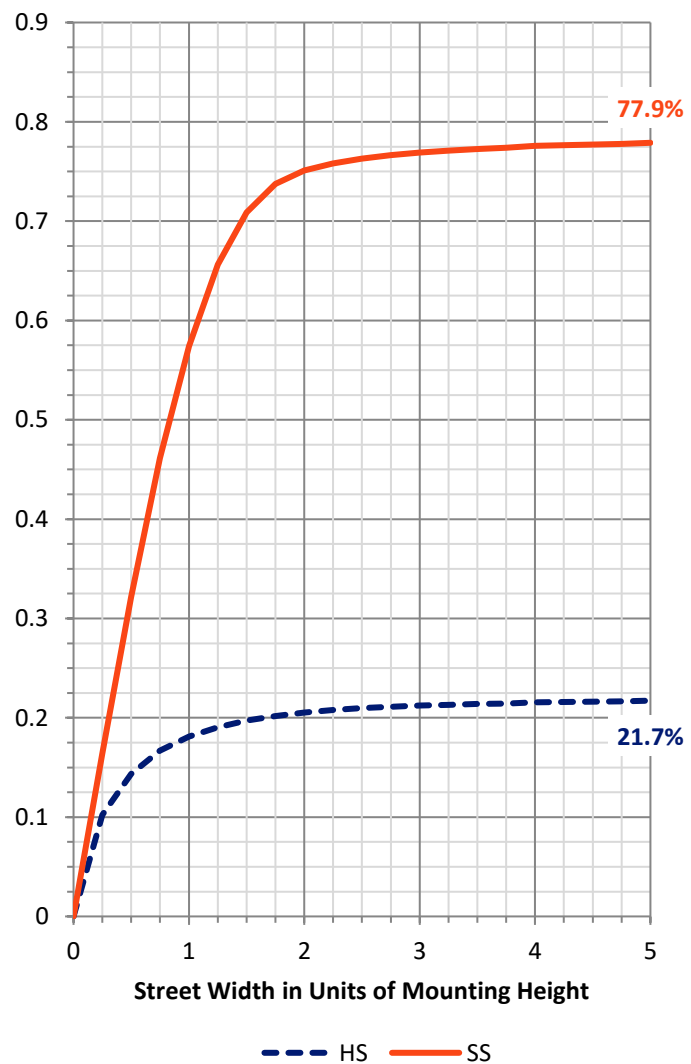
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16171.8	0.0	16171.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	57318.2	0.0	57318.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	73490.0	0.0	73490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1339.1	1.8
10°-20°	3501.1	4.8
20°-30°	5649.3	7.7
30°-40°	8478.8	11.5
40°-50°	12027.6	16.4
50°-60°	15189.3	20.7
60°-70°	15426.8	21.0
70°-80°	10514.0	14.3
80°-90°	1364.1	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°	73490.0	100.0
0°-180°	73490.0	100.0

Coefficient of Utilization

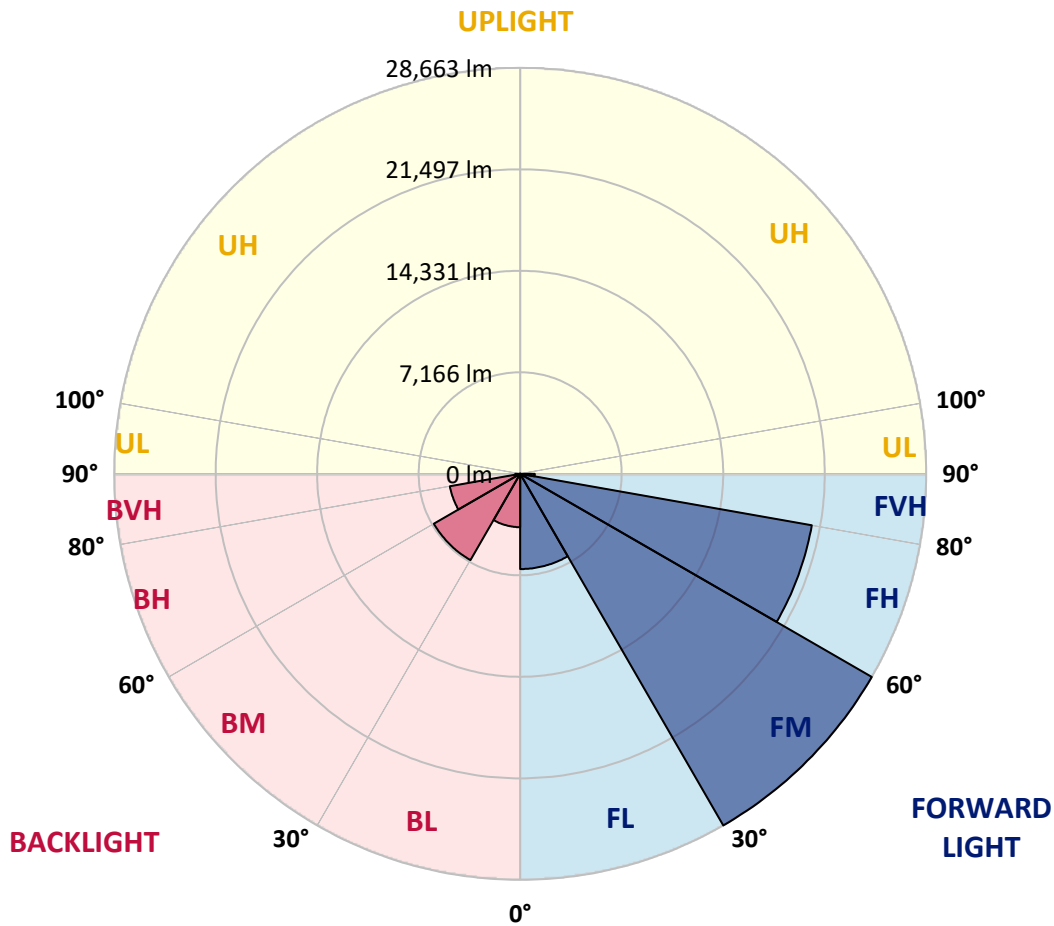


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6722.6	9.1			
FM (30°-60°)	28662.6	39.0			
FH (60°-80°)	20905.4	28.4			G5
FVH (80°-90°)	1027.6	1.4			G5
BL (0°-30°)	3766.9	5.1	B4/5000		
BM (30°-60°)	7033.1	9.6	B4/8500		
BH (60°-80°)	5035.4	6.9	B5		G5
BVH (80°-90°)	336.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4
2.5°	14760.2	14690.2	14733.0	14717.4	14736.9	14760.2	14768.0	14779.6	14818.5	14814.6
5°	14729.1	14659.1	14717.4	14698.0	14748.5	14803.0	14849.6	14892.4	14954.6	14981.8
7.5°	14663.0	14616.4	14674.7	14733.0	14826.3	14907.9	14974.0	15071.2	15160.6	15176.1
10°	14278.2	14243.2	14379.2	14530.8	14787.4	15009.0	15152.8	15265.5	15362.7	15378.3
12.5°	13877.8	13835.0	13986.6	14192.6	14608.6	15009.0	15312.2	15459.9	15545.4	15596.0
15°	13811.7	13776.7	13862.2	14041.0	14387.0	14904.0	15421.0	15693.2	15767.0	15825.3
17.5°	14130.4	14064.4	14099.3	14161.5	14363.7	14806.8	15506.6	15957.5	16070.2	16132.4
20°	14869.0	14775.7	14721.3	14596.9	14561.9	14822.4	15498.8	16276.3	16424.0	16501.7
22.5°	15852.5	15790.3	15673.7	15358.8	15016.8	15012.9	15646.5	16684.4	16960.4	17034.3
25°	17042.1	16948.8	16801.0	16373.4	15716.5	15389.9	15895.3	17205.3	17667.9	17687.4
27.5°	18410.4	18270.5	18068.3	17504.6	16618.3	15980.8	16276.3	17804.0	18480.4	18472.6
30°	19852.6	19712.7	19498.8	18814.7	17699.0	16777.7	16804.9	18449.3	19444.4	19401.7
32.5°	20906.1	20801.1	20758.3	20229.7	18943.0	17718.5	17411.4	19164.5	20633.9	20595.1
35°	21714.6	21578.6	21629.1	21360.9	20299.6	18771.9	18153.8	20015.9	22080.0	22076.1
37.5°	22515.4	22394.9	22437.7	22258.9	21555.2	20109.2	19059.6	21057.7	23872.1	23957.6
40°	23246.2	23118.0	23289.0	23121.8	22531.0	21531.9	20089.7	22235.5	25947.9	26111.2
42.5°	23685.5	23584.4	23868.2	23872.1	23378.4	22733.1	21220.9	23533.9	28350.3	28715.7
45°	23837.1	23802.1	24229.7	24319.1	24128.7	23428.9	22239.4	24948.9	30939.3	31592.3
47.5°	23673.8	23607.8	24198.6	24529.1	24680.7	23755.5	23083.0	26480.5	33582.6	34538.9
50°	22849.7	22721.4	23600.0	24295.8	24836.2	23969.3	23934.3	28249.2	36587.6	37633.2
52.5°	21368.7	21271.5	22270.5	23479.5	24494.1	24074.2	24890.6	30181.2	39440.9	40793.6
55°	19475.5	19347.2	20447.4	22025.6	23642.7	24039.3	25846.9	32342.6	42807.3	44179.5
57.5°	16474.5	16217.9	17609.6	19475.5	22255.0	23996.5	26842.0	34492.3	46228.1	47872.5
60°	12097.4	11716.4	13423.0	15634.8	19541.6	23580.5	28074.3	36902.4	50333.2	51814.2
62.5°	7043.8	6822.3	7937.9	10002.1	14729.1	21131.5	28766.2	39705.2	54368.2	55923.1
65°	5469.5	5407.3	5504.5	5663.8	8198.4	15821.4	26632.1	42438.0	59499.5	60587.9
67.5°	5003.0	4956.3	4999.1	4699.8	4159.4	8812.6	21069.3	43129.9	64996.2	65657.0
70°	4447.1	4392.7	4532.6	4276.1	3273.1	4007.8	13613.4	40618.7	69369.4	70609.5
72.5°	3623.0	3560.8	3887.3	3770.7	2756.1	2573.4	6837.8	34651.7	68910.7	71484.1
75°	2783.3	2748.3	3137.1	3234.3	2246.9	2025.3	3280.9	25757.5	60642.4	63235.2
77.5°	2161.4	2134.1	2332.4	2686.1	1811.5	1570.5	2017.5	16338.4	45699.5	46154.3
80°	1621.0	1543.3	1726.0	2079.7	1411.1	1146.8	1368.3	9527.8	28886.8	26185.1
82.5°	1014.6	975.7	1127.3	1387.8	995.2	789.1	890.2	5263.4	11576.5	6818.4
85°	579.2	563.7	614.2	793.0	540.3	454.8	509.2	2324.6	2114.7	1453.9
87.5°	233.2	225.5	279.9	353.7	198.3	167.2	178.8	559.8	466.5	431.5
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°
14752.4	0°	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4	14752.4
14810.7	2.5°	14795.2	14795.2	14740.8	14655.2	14558.1	14495.9	14394.8	14367.6	14262.6	14231.5
14942.9	5°	14974.0	14942.9	14775.7	14534.7	14204.3	13901.1	13566.8	13356.9	13061.4	12956.5
15203.3	7.5°	15199.5	15113.9	14826.3	14297.6	13605.7	12925.4	12217.9	11681.4	11168.3	10985.6
15417.2	10°	15405.5	15285.0	14795.2	13870.0	12672.7	11494.8	10367.5	9578.4	8979.7	8734.8
15654.3	12.5°	15611.5	15389.9	14589.2	13158.6	11347.1	9749.4	8548.2	7934.0	7564.7	7269.3
15848.6	15°	15805.9	15494.9	14270.4	12206.2	9893.3	8272.2	7385.9	6896.1	6600.7	6406.3
16132.4	17.5°	16031.4	15584.3	13792.2	10997.3	8509.4	7249.9	6526.8	6231.4	6173.1	6149.8
16521.2	20°	16346.2	15665.9	13162.5	9644.5	7490.9	6433.5	6060.3	6033.1	6029.2	6017.6
16987.6	22.5°	16684.4	15763.1	12330.6	8416.1	6624.0	5924.3	5858.2	5803.8	5768.8	5764.9
17551.3	25°	17084.8	15794.2	11288.8	7409.3	5885.4	5683.3	5605.5	5523.9	5500.6	5500.6
18192.7	27.5°	17473.6	15689.3	10076.0	6534.6	5469.5	5461.7	5360.6	5333.4	5329.5	5341.2
18923.5	30°	17862.3	15491.0	8870.9	5726.0	5228.5	5228.5	5193.5	5212.9	5228.5	5267.3
19926.5	32.5°	18387.1	15281.1	7864.1	5127.4	5018.5	4979.7	5014.7	5053.5	5069.1	5119.6
21244.3	35°	19156.8	15133.4	7063.3	4800.9	4800.9	4750.3	4769.8	4762.0	4727.0	4703.7
22838.1	37.5°	20175.2	15125.6	6402.4	4649.2	4618.1	4610.4	4614.3	4563.7	4427.7	4264.4
24766.2	40°	21399.8	15335.5	5893.2	4544.3	4521.0	4567.6	4544.3	4408.2	4035.0	3751.3
27137.5	42.5°	23044.1	15934.2	5566.7	4416.0	4486.0	4544.3	4451.0	3980.6	3727.9	3537.5
29839.1	45°	24980.0	16906.0	5399.5	4280.0	4419.9	4489.9	4038.9	3832.9	3630.8	3401.4
32785.7	47.5°	27172.4	18130.5	5360.6	4151.7	4272.2	4314.9	3864.0	3770.7	3541.4	3292.6
35747.9	50°	29559.3	19580.5	5465.6	4000.1	4058.4	3910.7	3805.7	3720.2	3483.0	3238.1
38783.9	52.5°	32027.7	21178.2	5675.5	3794.0	3844.6	3681.3	3782.4	3708.5	3448.1	3117.6
41921.0	55°	34453.4	22787.5	5877.6	3553.0	3626.9	3475.3	3716.3	3661.9	3288.7	2915.5
45268.0	57.5°	36918.0	24389.1	6075.9	3339.2	3417.0	3277.0	3611.3	3537.5	3109.9	2728.9
48922.1	60°	39479.7	25944.0	6169.2	3133.2	3187.6	3094.3	3451.9	3323.7	2907.7	2538.4
52513.9	62.5°	41878.2	27238.5	6017.6	2927.2	2962.1	2923.3	3242.0	3071.0	2705.6	2324.6
56257.4	65°	44284.5	28008.2	5551.1	2725.0	2732.8	2713.4	2946.6	2798.9	2468.5	2138.0
59534.5	67.5°	46465.3	28439.7	4808.6	2507.3	2487.9	2480.1	2670.6	2503.4	2239.1	1951.4
62026.2	70°	46927.9	27343.5	3673.5	2250.8	2250.8	2231.3	2367.4	2196.3	1986.4	1753.2
60242.0	72.5°	42861.7	23001.3	2608.4	1959.2	1990.3	1951.4	2064.2	1920.3	1729.9	1574.4
51919.2	75°	34562.3	16867.1	1897.0	1659.9	1714.3	1648.2	1753.2	1652.1	1488.8	1485.0
35779.0	77.5°	23747.7	10429.7	1376.1	1368.3	1407.2	1321.7	1442.2	1387.8	1240.1	1174.0
15572.6	80°	10134.3	4159.4	1002.9	1057.4	1057.4	979.6	1119.6	1135.1	1006.8	975.7
3004.9	82.5°	2017.5	1181.7	703.6	726.9	684.2	660.8	793.0	878.5	1212.8	1348.9
905.7	85°	606.4	435.4	423.7	396.5	349.9	353.7	466.5	882.4	1088.5	622.0
299.3	87.5°	167.2	108.8	112.7	89.4	73.9	97.2	159.4	668.6	365.4	155.5
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>
14752.4
14282.1
13034.2
11008.9
8789.3
7366.5
6441.3
6165.3
6056.5
5807.7
5523.9
5372.3
5294.5
5162.4
4758.1
4268.3
3743.5
3529.7
3385.9
3273.1
3210.9
3094.3
2896.1
2721.1
2526.8
2320.7
2114.7
1928.1
1745.4
1527.7
1337.2
1100.1
975.7
1352.8
536.5
132.2
0.0

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