

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: P956113

Luminaire Tested: **GALN-SB8D-840-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956113
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-840-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 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: 78231 lumens
Efficiency: N/A
Efficacy: 133.8 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

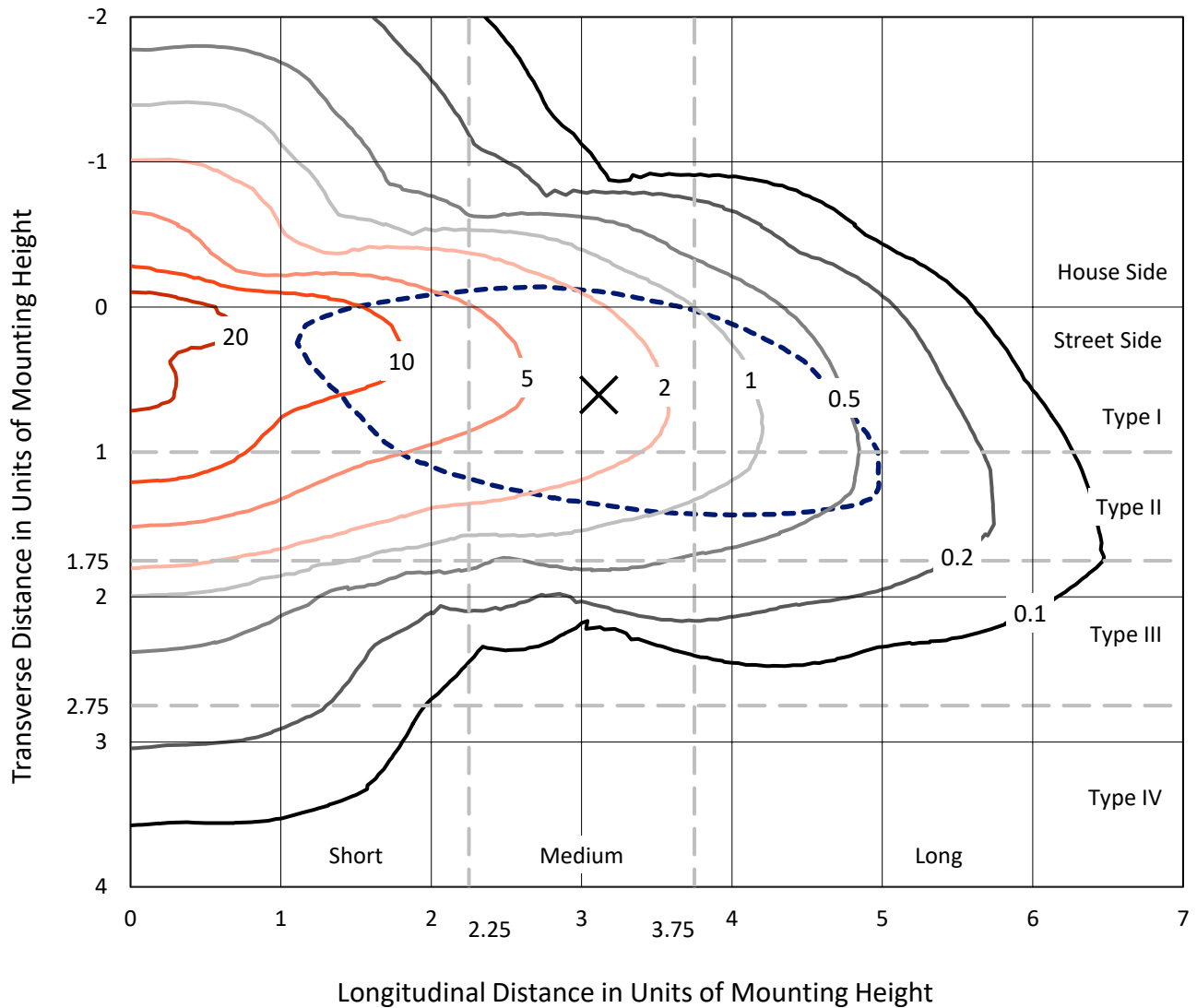
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

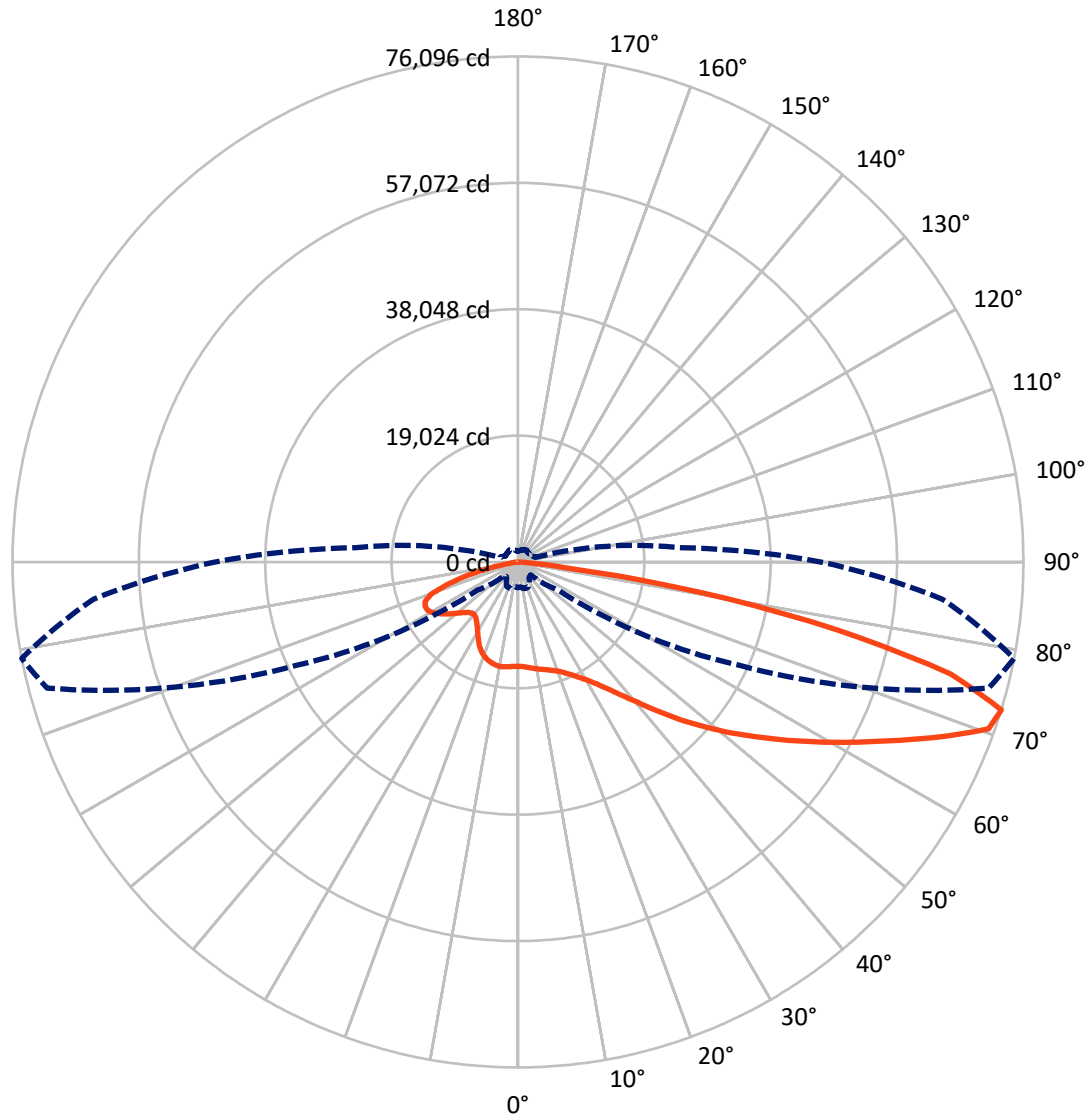
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 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	17215.1	0.0	17215.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	61015.9	0.0	61015.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	78231.0	0.0	78231.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1425.5	1.8
10°-20°	3726.9	4.8
20°-30°	6013.7	7.7
30°-40°	9025.8	11.5
40°-50°	12803.5	16.4
50°-60°	16169.2	20.7
60°-70°	16422.0	21.0
70°-80°	11192.3	14.3
80°-90°	1452.1	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°	78231.0	100.0
0°-180°	78231.0	100.0

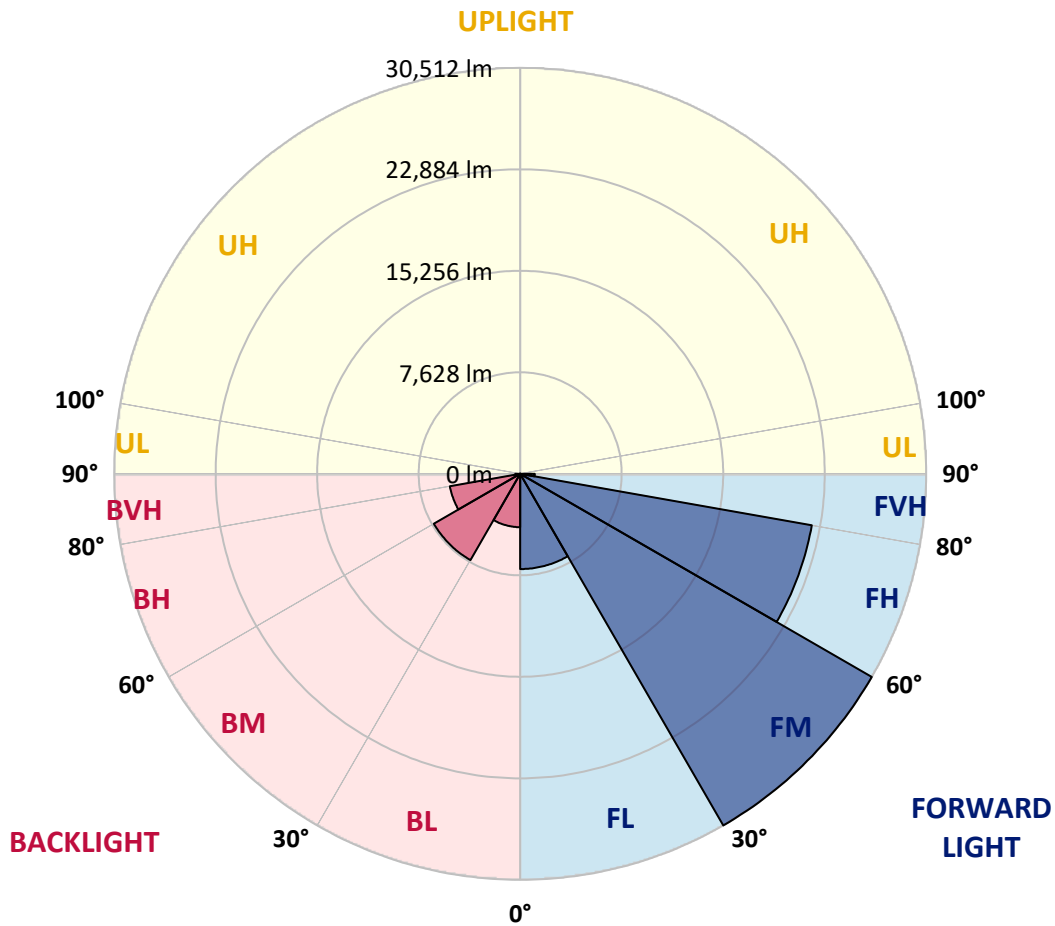


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7156.2	9.1			
FM (30°-60°)	30511.7	39.0			
FH (60°-80°)	22254.1	28.4			G5
FVH (80°-90°)	1093.9	1.4			G5
BL (0°-30°)	4009.9	5.1	B4/5000		
BM (30°-60°)	7486.8	9.6	B4/8500		
BH (60°-80°)	5360.2	6.9	B5		G5
BVH (80°-90°)	358.2	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°	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1
2.5°	15712.4	15637.9	15683.4	15666.9	15687.6	15712.4	15720.7	15733.1	15774.5	15770.3
5°	15679.3	15604.8	15666.9	15646.2	15700.0	15757.9	15807.6	15853.1	15919.3	15948.3
7.5°	15609.0	15559.3	15621.4	15683.4	15782.8	15869.7	15940.0	16043.5	16138.6	16155.2
10°	15199.3	15162.0	15306.9	15468.3	15741.4	15977.2	16130.4	16250.4	16353.8	16370.4
12.5°	14773.1	14727.5	14888.9	15108.2	15551.0	15977.2	16300.0	16457.3	16548.3	16602.1
15°	14702.7	14665.5	14756.5	14946.9	15315.1	15865.5	16415.9	16705.6	16784.2	16846.2
17.5°	15042.0	14971.7	15008.9	15075.1	15290.3	15762.1	16506.9	16986.9	17106.9	17173.2
20°	15828.3	15729.0	15671.0	15538.6	15501.4	15778.6	16498.6	17326.3	17483.5	17566.3
22.5°	16875.2	16809.0	16684.9	16349.7	15985.5	15981.4	16655.9	17760.8	18054.6	18133.2
25°	18141.5	18042.2	17884.9	17429.7	16730.4	16382.8	16920.7	18315.3	18807.7	18828.4
27.5°	19598.1	19449.1	19233.9	18633.9	17690.4	17011.8	17326.3	18952.5	19672.6	19664.3
30°	21133.3	20984.4	20756.8	20028.5	18840.8	17860.1	17889.1	19639.5	20698.8	20653.3
32.5°	22254.8	22143.0	22097.5	21534.7	20165.0	18861.5	18534.6	20400.9	21965.1	21923.7
35°	23115.5	22970.7	23024.4	22738.9	21609.2	19982.9	19325.0	21307.1	23504.5	23500.3
37.5°	23967.9	23839.7	23885.2	23694.8	22945.8	21406.4	20289.2	22416.1	25412.1	25503.2
40°	24745.9	24609.3	24791.4	24613.5	23984.5	22921.0	21385.8	23670.0	27621.9	27795.7
42.5°	25213.5	25105.9	25408.0	25412.1	24886.6	24199.7	22589.9	25052.1	30179.2	30568.2
45°	25374.9	25337.7	25792.8	25888.0	25685.3	24940.4	23674.1	26558.4	32935.2	33630.4
47.5°	25201.1	25130.7	25759.7	26111.5	26272.9	25288.0	24572.1	28188.8	35749.1	36767.1
50°	24323.8	24187.3	25122.5	25863.2	26438.4	25515.6	25478.3	30071.6	38947.9	40061.0
52.5°	22747.2	22643.7	23707.2	24994.2	26074.2	25627.3	26496.3	32128.3	41985.3	43425.3
55°	20731.9	20595.4	21766.5	23446.5	25168.0	25590.1	27514.3	34429.1	45568.9	47029.6
57.5°	17537.3	17264.2	18745.6	20731.9	23690.7	25544.6	28573.7	36717.5	49210.4	50960.8
60°	12877.8	12472.3	14288.9	16643.5	20802.3	25101.8	29885.4	39283.1	53580.3	55156.9
62.5°	7498.3	7262.4	8450.0	10647.4	15679.3	22494.8	30622.0	42266.7	57875.6	59530.9
65°	5822.3	5756.1	5859.6	6029.2	8727.3	16842.1	28350.2	45175.8	63337.9	64496.6
67.5°	5325.7	5276.1	5321.6	5003.0	4427.8	9381.1	22428.6	45912.3	69189.2	69892.7
70°	4734.0	4676.1	4825.0	4551.9	3484.3	4266.4	14491.7	43239.1	73844.6	75164.6
72.5°	3856.7	3790.5	4138.1	4014.0	2933.9	2739.4	7278.9	36887.1	73356.3	76095.7
75°	2962.9	2925.6	3339.5	3442.9	2391.8	2156.0	3492.6	27419.1	64554.5	67314.6
77.5°	2300.8	2271.8	2482.9	2859.4	1928.4	1671.8	2147.7	17392.5	48647.6	49131.8
80°	1725.6	1642.8	1837.3	2213.9	1502.1	1220.7	1456.6	10142.5	30750.3	27874.3
82.5°	1080.0	1038.7	1200.1	1477.3	1059.4	840.0	947.6	5603.0	12323.3	7258.2
85°	616.6	600.0	653.8	844.2	575.2	484.2	542.1	2474.6	2251.1	1547.7
87.5°	248.3	240.0	297.9	376.6	211.0	177.9	190.4	595.9	496.6	459.3
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°
15704.1	0°	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1	15704.1
15766.2	2.5°	15749.6	15749.6	15691.7	15600.7	15497.2	15431.0	15323.4	15294.5	15182.7	15149.6
15906.9	5°	15940.0	15906.9	15729.0	15472.4	15120.7	14797.9	14442.0	14218.5	13904.1	13792.3
16184.2	7.5°	16180.0	16089.0	15782.8	15220.0	14483.4	13759.2	13006.1	12435.0	11888.8	11694.3
16411.7	10°	16399.3	16271.1	15749.6	14764.8	13490.2	12236.4	11036.3	10196.3	9559.0	9298.3
16664.2	12.5°	16618.7	16382.8	15530.3	14007.5	12079.1	10378.4	9099.7	8445.9	8052.8	7738.3
16871.1	15°	16825.6	16494.5	15191.0	12993.7	10531.5	8805.9	7862.4	7341.0	7026.5	6819.6
17173.2	17.5°	17065.6	16589.7	14682.0	11706.7	9058.3	7717.6	6947.9	6633.4	6571.3	6546.5
17587.0	20°	17400.8	16676.6	14011.6	10266.7	7974.1	6848.6	6451.3	6422.3	6418.2	6405.8
18083.5	22.5°	17760.8	16780.0	13126.1	8959.0	7051.3	6306.5	6236.1	6178.2	6141.0	6136.8
18683.6	25°	18187.0	16813.1	12017.1	7887.2	6265.1	6049.9	5967.2	5880.3	5855.4	5855.4
19366.4	27.5°	18600.8	16701.4	10726.0	6956.2	5822.3	5814.0	5706.5	5677.5	5673.3	5685.8
20144.3	30°	19014.6	16490.4	9443.2	6095.4	5565.8	5565.8	5528.5	5549.2	5565.8	5607.1
21212.0	32.5°	19573.3	16266.9	8371.4	5458.2	5342.3	5300.9	5338.2	5379.5	5396.1	5449.9
22614.8	35°	20392.6	16109.7	7518.9	5110.6	5110.6	5056.8	5077.5	5069.2	5031.9	5007.1
24311.4	37.5°	21476.8	16101.4	6815.5	4949.2	4916.1	4907.8	4911.9	4858.1	4713.3	4539.5
26363.9	40°	22780.3	16324.8	6273.4	4837.5	4812.6	4862.3	4837.5	4692.6	4295.4	3993.3
28888.1	42.5°	24530.7	16962.1	5925.8	4700.9	4775.4	4837.5	4738.1	4237.4	3968.4	3765.7
31764.1	45°	26591.5	17996.6	5747.8	4556.1	4705.0	4779.5	4299.5	4080.2	3865.0	3620.8
34900.8	47.5°	28925.4	19300.1	5706.5	4419.5	4547.8	4593.3	4113.3	4014.0	3769.8	3505.0
38054.1	50°	31466.2	20843.7	5818.2	4258.1	4320.2	4162.9	4051.2	3960.2	3707.7	3447.0
41285.9	52.5°	34093.9	22544.4	6041.6	4038.8	4092.6	3918.8	4026.4	3947.8	3670.5	3318.8
44625.4	55°	36676.1	24257.6	6256.8	3782.2	3860.9	3699.5	3956.0	3898.1	3500.8	3103.6
48188.3	57.5°	39299.6	25962.5	6467.9	3554.6	3637.4	3488.4	3844.3	3765.7	3310.5	2905.0
52078.1	60°	42026.7	27617.7	6567.2	3335.3	3393.3	3293.9	3674.6	3538.1	3095.3	2702.2
55901.7	62.5°	44579.9	28995.7	6405.8	3116.0	3153.2	3111.9	3451.2	3269.1	2880.1	2474.6
59886.7	65°	47141.4	29815.1	5909.2	2900.8	2909.1	2888.4	3136.7	2979.4	2627.7	2276.0
63375.2	67.5°	49462.8	30274.4	5118.8	2669.1	2648.4	2640.1	2842.9	2664.9	2383.6	2077.3
66027.7	70°	49955.3	29107.5	3910.5	2396.0	2396.0	2375.3	2520.1	2338.0	2114.6	1866.3
64128.3	72.5°	45626.8	24485.2	2776.7	2085.6	2118.7	2077.3	2197.3	2044.2	1841.5	1675.9
55268.6	75°	36791.9	17955.3	2019.4	1767.0	1824.9	1754.6	1866.3	1758.7	1584.9	1580.8
38087.2	77.5°	25279.7	11102.6	1464.9	1456.6	1498.0	1407.0	1535.2	1477.3	1320.1	1249.7
16577.3	80°	10788.1	4427.8	1067.6	1125.6	1125.6	1042.8	1191.8	1208.3	1071.8	1038.7
3198.8	82.5°	2147.7	1258.0	749.0	773.8	728.3	703.5	844.2	935.2	1291.1	1435.9
964.2	85°	645.5	463.5	451.1	422.1	372.4	376.6	496.6	939.4	1158.7	662.1
318.6	87.5°	177.9	115.9	120.0	95.2	78.6	103.5	169.7	711.8	389.0	165.5
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>
15704.1
15203.4
13875.1
11719.1
9356.3
7841.7
6856.8
6563.0
6447.2
6182.3
5880.3
5718.9
5636.1
5495.4
5065.0
4543.6
3985.0
3757.4
3604.3
3484.3
3418.1
3293.9
3082.9
2896.7
2689.8
2470.5
2251.1
2052.5
1858.0
1626.3
1423.5
1171.1
1038.7
1440.1
571.1
140.7
0.0

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