

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: P943926

Luminaire Tested: **GALN-SB8C-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45429 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

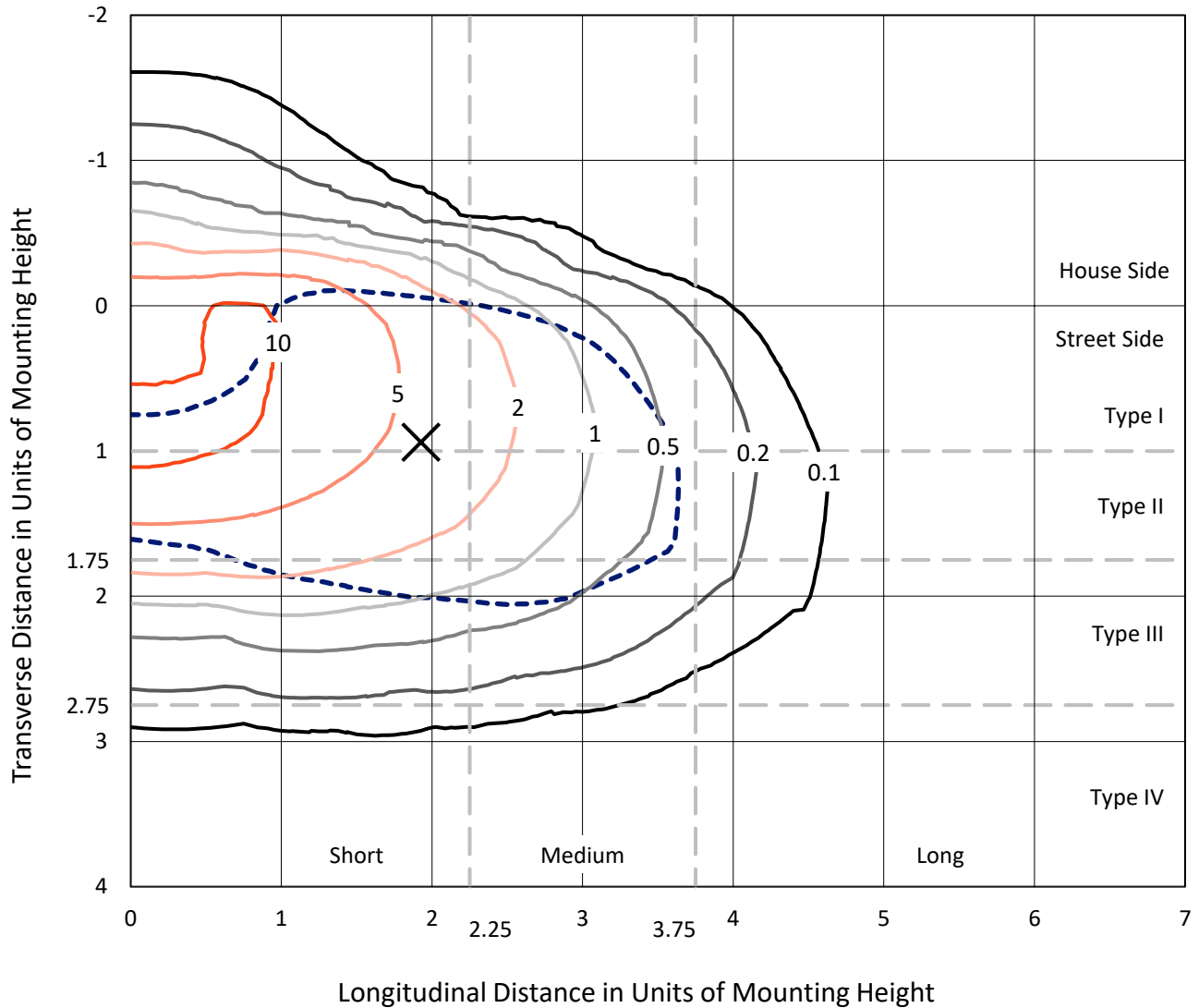
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

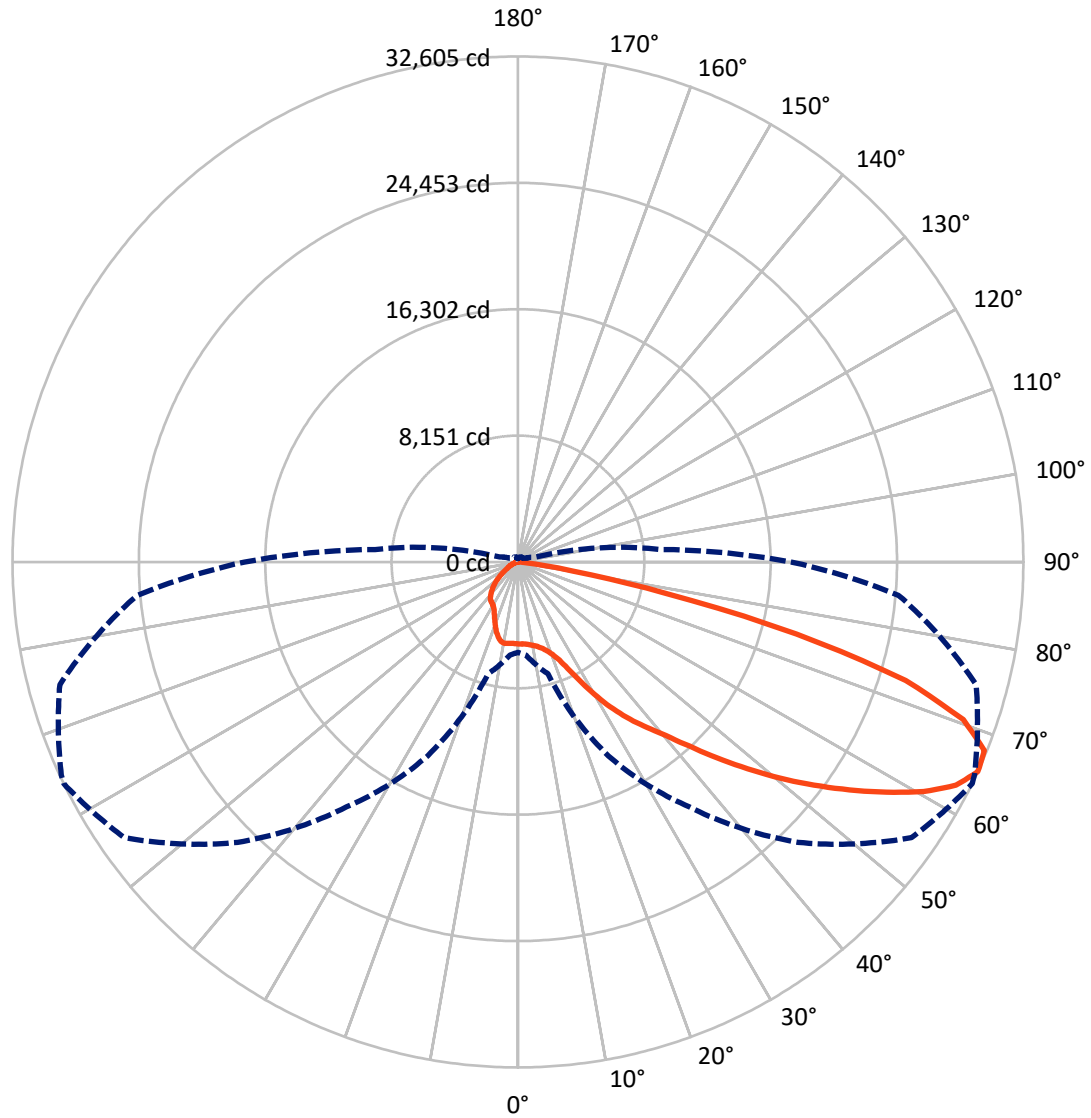
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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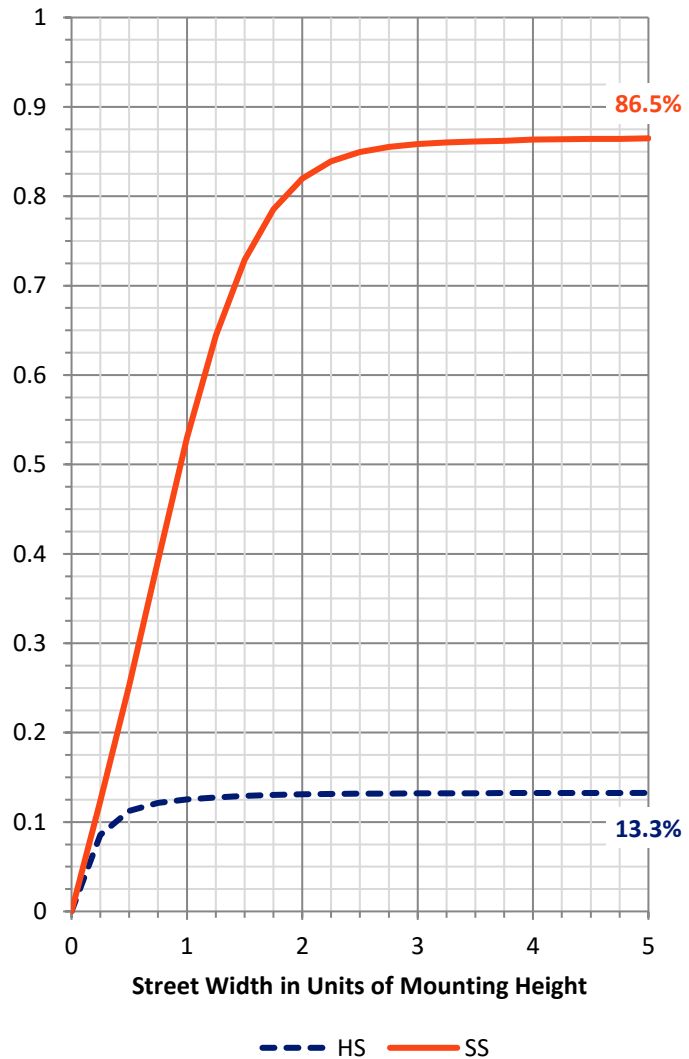
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6075.2	0.0	6075.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	39353.8	0.0	39353.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	45429.0	0.0	45429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.5	1.1
10°-20°	1322.2	2.9
20°-30°	2505.5	5.5
30°-40°	5069.9	11.2
40°-50°	8636.6	19.0
50°-60°	11745.1	25.9
60°-70°	11029.3	24.3
70°-80°	4418.8	9.7
80°-90°	214.1	0.5
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°	45429.0	100.0
0°-180°	45429.0	100.0

Coefficient of Utilization



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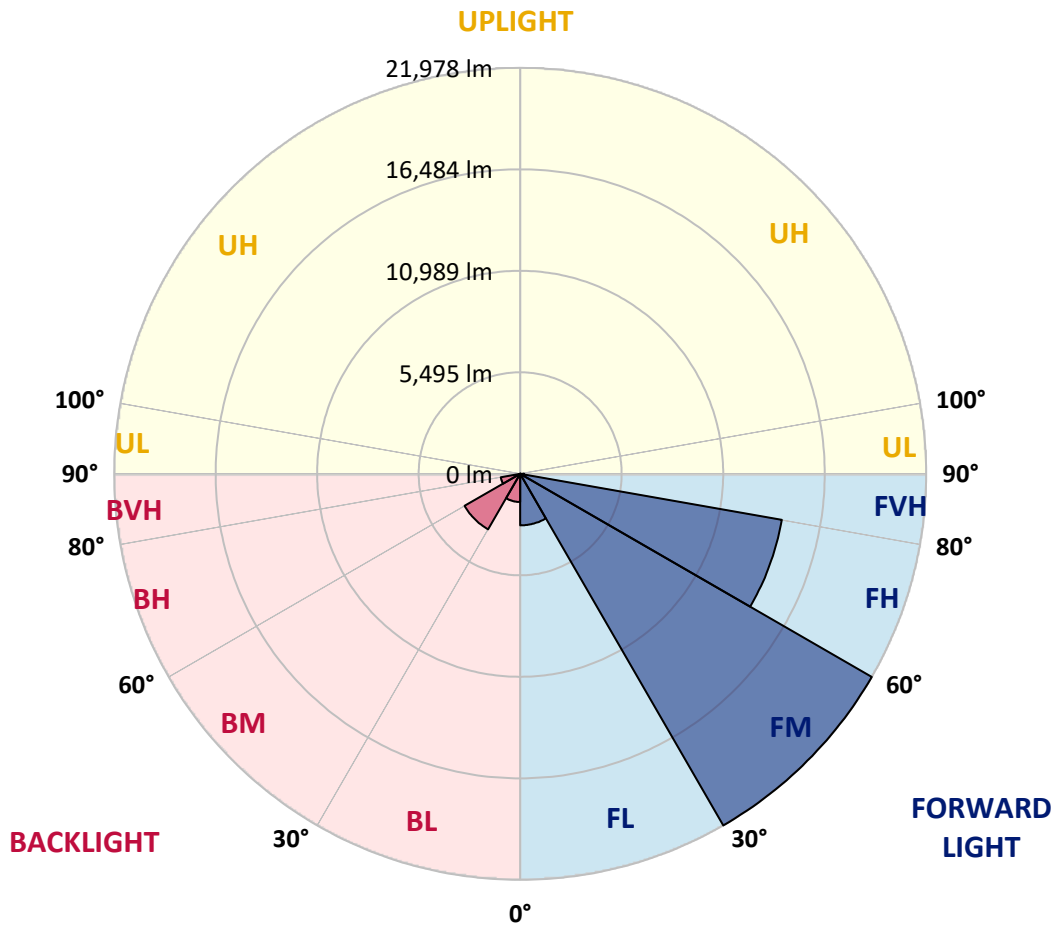
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.9	6.1			
FM (30°-60°)	21978.5	48.4			
FH (60°-80°)	14381.8	31.7			G5
FVH (80°-90°)	203.6	0.4			G2/225
BL (0°-30°)	1525.3	3.4	B3/2500		
BM (30°-60°)	3473.2	7.6	B3/5000		
BH (60°-80°)	1066.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9
2.5°	5265.6	5302.1	5293.0	5283.9	5280.8	5286.9	5290.0	5286.9	5286.9	5286.9
5°	5165.1	5195.5	5195.5	5216.9	5247.3	5283.9	5311.3	5317.4	5323.5	5332.6
7.5°	4973.2	4997.6	5015.9	5085.9	5162.0	5259.5	5341.7	5384.4	5390.5	5424.0
10°	4842.3	4872.7	4903.2	4976.3	5085.9	5232.1	5372.2	5475.7	5491.0	5570.1
12.5°	4836.2	4866.6	4906.2	4985.4	5113.3	5268.6	5439.2	5588.4	5615.8	5731.5
15°	4900.1	4936.7	4973.2	5070.7	5207.7	5396.5	5579.3	5765.0	5792.5	5956.9
17.5°	5031.1	5079.8	5107.2	5204.7	5350.9	5561.0	5801.6	6014.8	6039.1	6231.0
20°	5290.0	5347.8	5357.0	5436.1	5579.3	5804.6	6090.9	6355.9	6386.3	6605.6
22.5°	5826.0	5908.2	5835.1	5874.7	6002.6	6228.0	6538.6	6873.6	6916.2	7166.0
25°	6770.0	6885.8	6697.0	6630.0	6684.8	6919.3	7309.1	7732.4	7781.1	7982.1
27.5°	8624.7	8475.5	8189.2	7909.0	7744.6	7878.6	8317.1	8841.0	8901.9	9096.8
30°	10662.1	10531.2	10144.4	9523.1	9133.3	9112.0	9517.0	10101.8	10171.8	10357.6
32.5°	12702.6	12577.7	12157.5	11393.0	10717.0	10382.0	10662.1	11310.8	11347.4	11466.1
35°	14709.5	14581.6	14161.4	13378.7	12547.3	11785.9	11731.1	12462.0	12474.2	12599.0
37.5°	16728.7	16622.1	16174.4	15407.0	14587.7	13537.0	13028.5	13552.3	13567.5	13689.3
40°	18169.2	18214.9	17907.3	17313.4	16609.9	15461.8	14484.2	14712.6	14621.2	14825.3
42.5°	19405.6	19497.0	19229.0	18930.5	18522.5	17511.4	16287.1	16247.5	16101.3	16211.0
45°	20474.6	20550.7	20310.1	20240.1	20231.0	19521.4	18257.5	18020.0	17815.9	17794.6
47.5°	20867.5	21013.6	21117.2	21351.7	21808.5	21510.0	20294.9	19926.4	19698.0	19530.5
50°	21016.7	21172.0	21525.3	22207.5	23288.6	23416.5	22323.2	21909.0	21628.8	21324.3
52.5°	20815.7	21092.8	21567.9	22716.0	24284.5	24945.3	24269.2	23906.8	23587.0	23090.6
55°	19631.0	19908.1	20879.6	22710.0	24780.9	26017.3	26108.7	25947.3	25587.9	24805.2
57.5°	17133.7	17544.9	19082.8	21936.4	24771.7	26940.1	27911.6	28027.3	27625.3	26504.6
60°	13674.1	14231.4	16107.4	20221.8	24007.3	27439.5	29492.2	30070.8	29644.5	28179.6
62.5°	9541.4	10187.0	11962.5	17535.7	22259.2	27080.2	30646.4	31715.4	31392.6	29678.0
65°	5819.9	6027.0	7458.3	13799.0	19286.9	25575.7	31002.7	32604.6	32498.1	30594.6
67.5°	3876.9	4050.5	4461.6	9462.2	14971.5	22569.9	30150.0	32449.3	32479.8	30445.4
70°	2335.9	2485.1	2753.1	5503.1	9702.8	17864.6	27509.6	30469.8	30646.4	28450.6
72.5°	962.4	1062.9	1306.5	2494.2	5025.0	11338.2	21906.0	26160.5	26571.6	23922.0
75°	545.1	596.9	767.5	1251.7	2180.5	5283.9	13269.0	18571.2	19177.2	16488.1
77.5°	362.4	386.8	496.4	810.1	1227.3	1802.9	5670.6	9675.4	10832.7	9005.4
80°	243.6	265.0	341.1	542.1	797.9	773.5	1806.0	3584.5	4409.8	3094.2
82.5°	164.5	167.5	243.6	356.3	505.5	374.6	533.0	1114.6	1400.9	895.4
85°	94.4	91.4	179.7	207.1	225.4	155.3	161.4	335.0	438.5	377.6
87.5°	12.2	18.3	70.0	54.8	30.5	33.5	33.5	57.9	85.3	91.4
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°
5283.9	0°	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9	5283.9
5290.0	2.5°	5290.0	5286.9	5277.8	5268.6	5247.3	5235.1	5241.2	5235.1	5232.1	5235.1
5329.5	5°	5329.5	5320.4	5296.0	5265.6	5223.0	5171.2	5137.7	5089.0	5043.3	5015.9
5436.1	7.5°	5436.1	5427.0	5393.5	5308.2	5171.2	4955.0	4757.0	4583.4	4452.5	4376.3
5606.7	10°	5606.7	5591.5	5539.7	5350.9	4991.5	4519.5	4126.6	3800.7	3587.5	3487.0
5807.7	12.5°	5807.7	5789.4	5698.0	5311.3	4650.4	3913.4	3371.3	3008.9	2811.0	2722.6
6039.1	15°	6045.2	6020.9	5841.2	5122.5	4154.0	3243.4	2747.0	2476.0	2348.0	2268.9
6334.5	17.5°	6340.6	6298.0	5947.8	4839.2	3615.0	2731.8	2363.3	2159.2	2046.5	1970.4
6721.3	20°	6724.4	6654.3	6033.0	4501.2	3118.5	2409.0	2104.4	1933.9	1848.6	1781.6
7269.5	22.5°	7260.4	7159.9	6136.6	4135.7	2768.3	2186.6	1912.5	1787.7	1717.6	1641.5
8033.9	25°	7924.3	7805.5	6264.5	3797.7	2527.7	1994.8	1772.5	1668.9	1586.7	1498.4
9035.9	27.5°	8853.1	8640.0	6416.8	3520.5	2320.6	1830.3	1644.5	1528.8	1434.4	1361.3
10171.8	30°	9888.6	9538.4	6550.8	3353.0	2131.8	1678.0	1477.0	1361.3	1273.0	1221.2
11192.0	32.5°	10869.2	10394.1	6639.1	3280.0	1961.3	1504.5	1294.3	1169.5	1102.5	1087.2
12191.0	35°	11795.0	11167.7	6630.0	3209.9	1809.0	1330.9	1114.6	986.7	935.0	944.1
13266.0	37.5°	12861.0	11993.0	6566.0	3100.3	1684.1	1172.5	959.3	846.6	801.0	804.0
14572.5	40°	14100.5	12946.2	6526.4	2893.2	1547.1	1026.3	831.4	740.0	706.5	694.4
15949.0	42.5°	15422.2	13869.0	6532.5	2658.7	1376.5	895.4	743.1	667.0	636.5	627.4
17480.9	45°	16750.0	14749.1	6541.6	2415.0	1196.9	794.9	679.1	615.2	596.9	584.7
19034.1	47.5°	17998.6	15498.3	6371.1	2153.1	1020.2	718.7	627.4	584.7	569.5	554.3
20593.4	50°	19162.0	15997.8	5960.0	1848.6	880.1	657.8	587.8	557.3	542.1	526.9
22006.5	52.5°	20066.5	16077.0	5280.8	1534.9	782.7	612.1	563.4	536.0	517.7	502.5
23148.5	55°	20468.5	15580.5	4315.4	1242.5	706.5	572.5	539.0	511.6	490.3	475.1
24046.9	57.5°	20365.0	14536.0	3365.2	998.9	633.5	533.0	508.6	490.3	466.0	441.6
24774.8	60°	19856.4	13138.1	2536.9	831.4	566.5	490.3	475.1	459.9	426.4	389.8
25055.0	62.5°	18976.2	11380.9	1809.0	688.3	493.4	441.6	435.5	423.3	374.6	307.6
24640.8	65°	17630.1	9246.0	1218.2	572.5	423.3	386.8	389.8	368.5	304.5	228.4
23124.1	67.5°	15662.8	6760.9	779.6	469.0	353.3	322.8	325.9	313.7	258.9	194.9
20249.2	70°	13156.4	4476.8	508.6	356.3	283.2	249.7	268.0	271.0	219.3	158.4
15541.0	72.5°	9645.0	2643.5	356.3	265.0	207.1	173.6	219.3	225.4	176.6	118.8
9349.5	75°	5497.0	1254.7	268.0	191.9	127.9	121.8	170.5	170.5	121.8	79.2
4047.4	77.5°	2308.5	523.8	188.8	124.9	73.1	70.0	115.7	106.6	60.9	36.5
986.7	80°	667.0	234.5	100.5	60.9	30.5	27.4	45.7	33.5	15.2	6.1
374.6	82.5°	261.9	103.5	39.6	24.4	12.2	12.2	6.1	0.0	0.0	0.0
213.2	85°	155.3	42.6	18.3	9.1	3.0	0.0	0.0	0.0	0.0	0.0
45.7	87.5°	39.6	9.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
5283.9
5247.3
5022.0
4379.4
3477.9
2713.5
2271.9
1964.3
1769.4
1629.3
1489.2
1346.1
1212.1
1096.4
944.1
816.2
691.3
624.3
584.7
554.3
526.9
499.5
472.0
438.5
383.7
301.5
222.3
185.8
152.3
112.7
73.1
36.5
6.1
0.0
0.0
0.0
0.0

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