

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: P944772

Luminaire Tested: **GALN-SB9D-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87883 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

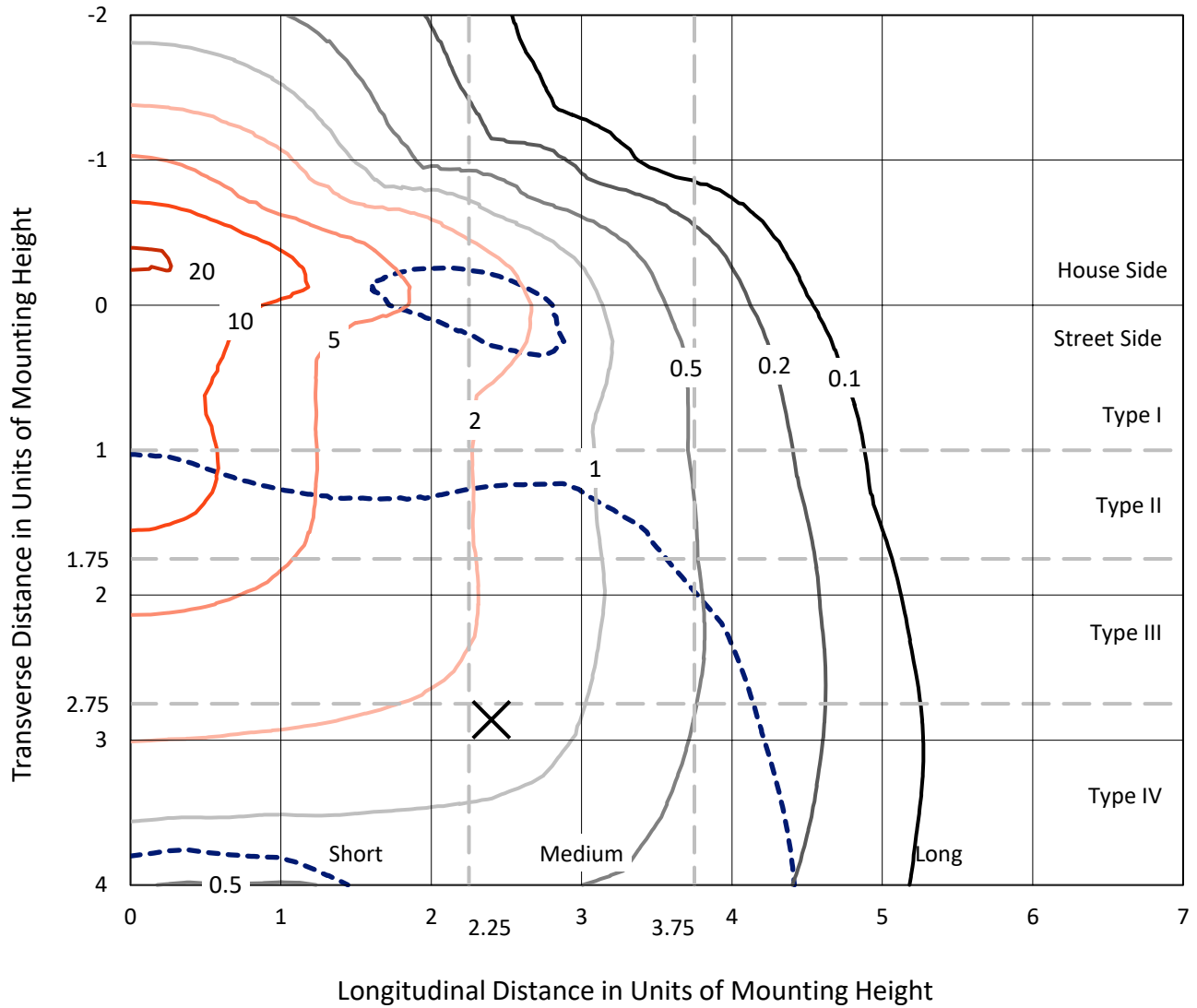
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

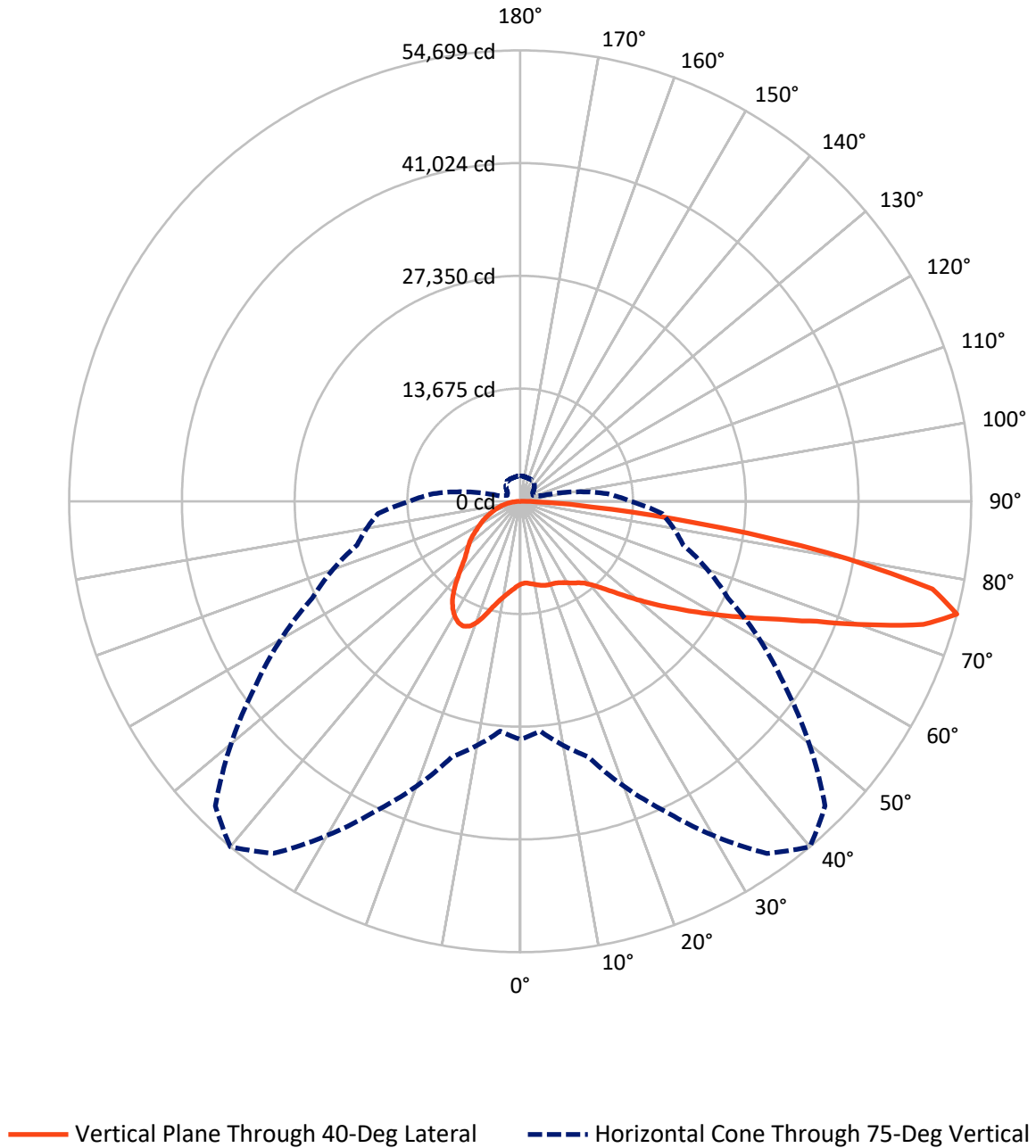
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27229.1	0.0	27229.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	60653.9	0.0	60653.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	87883.0	0.0	87883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1003.1	1.1
10°-20°	3368.0	3.8
20°-30°	6149.7	7.0
30°-40°	8721.9	9.9
40°-50°	11777.2	13.4
50°-60°	15843.5	18.0
60°-70°	20109.0	22.9
70°-80°	18250.2	20.8
80°-90°	2660.3	3.0
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°	87883.0	100.0
0°-180°	87883.0	100.0

Coefficient of Utilization



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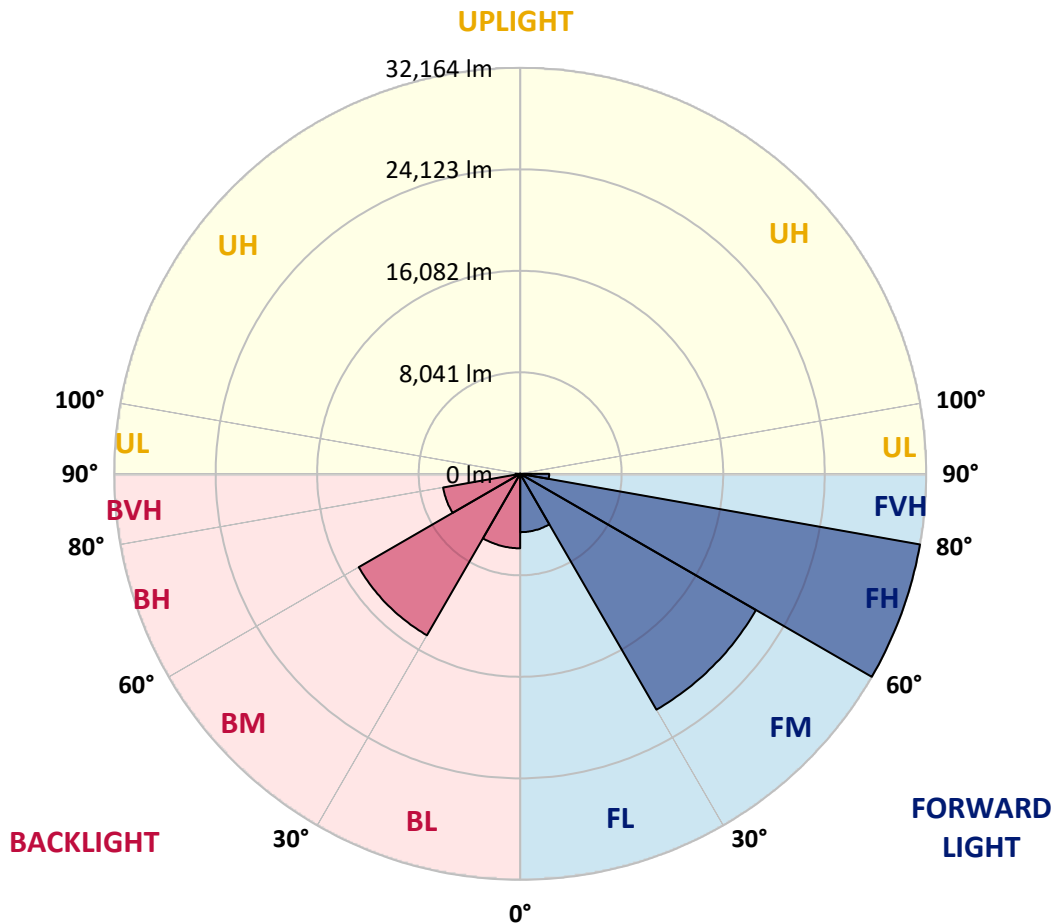
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4622.7	5.3			
FM (30°-60°)	21573.3	24.5			
FH (60°-80°)	32163.8	36.6			G5
FVH (80°-90°)	2294.0	2.6			G5
BL (0°-30°)	5898.1	6.7	B5		
BM (30°-60°)	14769.3	16.8	B5		
BH (60°-80°)	6195.4	7.0	B5		G5
BVH (80°-90°)	366.3	0.4			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5
2.5°	9895.7	9951.7	9937.7	9919.0	9919.0	9923.7	9919.0	9951.7	9984.3	10016.9
5°	9998.3	10054.2	10026.2	10002.9	9984.3	9979.6	9965.6	9961.0	9979.6	10021.6
7.5°	10198.7	10254.6	10212.7	10170.7	10133.4	10114.8	10096.2	10068.2	10054.2	10077.5
10°	10422.4	10478.4	10427.1	10352.5	10291.9	10268.6	10250.0	10222.0	10203.4	10217.3
12.5°	10646.2	10702.1	10632.2	10529.6	10450.4	10436.4	10413.1	10403.8	10399.1	10394.5
15°	10855.9	10902.5	10814.0	10692.8	10608.9	10585.6	10562.3	10576.3	10599.6	10627.5
17.5°	11019.1	11065.7	10935.2	10776.7	10697.4	10688.1	10674.1	10720.8	10786.0	10855.9
20°	11168.2	11214.8	11047.0	10832.6	10739.4	10739.4	10744.1	10841.9	10935.2	11037.7
22.5°	11378.0	11415.3	11210.2	10916.5	10781.3	10790.7	10828.0	10925.8	11042.4	11182.2
25°	11690.3	11718.2	11466.5	11075.0	10921.2	10949.1	10981.8	11028.4	11140.3	11303.4
27.5°	12193.7	12217.0	11886.0	11354.7	11121.6	11168.2	11214.8	11182.2	11233.5	11373.3
30°	12902.2	12916.2	12496.7	11792.8	11461.9	11485.2	11494.5	11359.3	11261.4	11373.3
32.5°	13741.2	13736.5	13237.8	12324.2	11848.8	11825.5	11746.2	11480.5	11252.1	11350.0
35°	15041.7	14990.4	14347.2	13070.0	12286.9	12142.4	11956.0	11615.7	11298.7	11326.7
37.5°	17195.2	17036.7	16146.4	14291.2	12939.5	12571.2	12296.2	11834.8	11401.3	11317.4
40°	19623.6	19423.2	18444.4	15964.6	13918.3	13326.4	12883.5	12147.1	11569.1	11359.3
42.5°	22504.3	22219.9	21166.5	17936.3	15158.2	14300.5	13634.0	12543.3	11816.1	11494.5
45°	26042.1	25664.5	24173.0	20159.7	16719.7	15577.7	14687.4	13144.6	12193.7	11755.5
47.5°	29617.2	29710.5	27589.6	22704.7	18593.5	17153.2	16006.5	14048.8	12743.7	12175.0
50°	33416.1	33481.4	30987.6	25524.7	20719.0	18933.8	17488.8	15060.3	13508.1	12771.7
52.5°	36380.6	36390.0	34073.3	28475.2	22933.1	20891.5	19087.6	16216.3	14393.8	13564.1
55°	38235.8	38212.5	36236.1	31267.3	25478.1	22947.1	20858.9	17530.8	15475.2	14496.3
57.5°	39582.9	39513.0	37727.7	33667.8	28190.9	25375.5	22863.2	19022.3	16752.3	15605.7
60°	40095.6	40053.7	38739.2	35742.0	31043.6	28060.4	25175.1	20691.0	18202.0	16915.5
62.5°	40291.4	40370.6	39732.0	37751.0	34096.6	31034.2	27715.5	22686.0	19833.4	18397.7
65°	40981.2	41125.7	40995.2	40379.9	37545.9	34516.2	31085.5	25058.6	21614.0	19987.2
67.5°	42347.0	42491.5	42547.4	43526.2	41759.7	38855.7	35289.9	28013.8	23697.5	21637.3
70°	42314.3	42272.4	43260.6	46029.3	47036.1	44864.0	40957.9	31649.5	26181.9	23007.7
72.5°	38515.5	38179.9	40515.1	46001.3	51427.0	51138.0	47879.8	36338.7	28326.1	23175.5
75°	28894.8	27999.8	32125.0	41456.7	52158.8	54699.1	52280.0	39247.3	27818.0	20476.6
77.5°	12356.8	11457.2	16318.8	30689.3	46681.9	51133.3	48243.4	34241.1	22205.9	13540.8
80°	3234.9	3230.2	4931.5	13913.7	31747.4	37760.3	33127.1	22112.7	12687.8	4838.3
82.5°	1337.8	1305.1	1813.2	5411.6	15512.5	21189.8	17293.0	9863.1	4582.0	1309.8
85°	498.7	494.1	881.0	1869.1	5472.2	8739.7	6325.2	2521.7	1142.0	638.6
87.5°	139.8	135.2	191.1	647.9	1333.1	2023.0	1081.4	414.8	321.6	251.7
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°
10049.5	0°	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5	10049.5
10068.2	2.5°	10082.2	10105.5	10147.4	10180.1	10222.0	10268.6	10333.9	10375.8	10417.8	10445.7
10091.5	5°	10124.1	10175.4	10282.6	10389.8	10515.7	10632.2	10767.4	10865.2	10944.5	10967.8
10175.4	7.5°	10217.3	10301.2	10483.0	10664.8	10865.2	11056.4	11252.1	11419.9	11555.1	11606.4
10324.5	10°	10380.5	10492.4	10748.7	11005.1	11270.8	11564.4	11816.1	12058.5	12249.6	12328.9
10501.7	12.5°	10585.6	10725.4	11061.0	11415.3	11783.5	12189.0	12515.3	12813.6	13051.3	13158.6
10748.7	15°	10851.3	11033.1	11461.9	11937.3	12478.0	13042.0	13456.9	13787.8	14053.5	14184.0
11005.1	17.5°	11140.3	11382.6	11923.3	12641.2	13414.9	14156.1	14640.8	14883.2	15158.2	15284.1
11242.8	20°	11419.9	11718.2	12492.0	13536.1	14566.2	15354.0	15745.5	15810.8	15829.4	15843.4
11466.5	22.5°	11708.9	12109.8	13205.2	14664.1	15768.8	16314.2	16370.1	16090.4	15698.9	15517.1
11685.6	25°	12025.9	12557.3	14137.4	15908.7	16803.6	16868.9	16440.0	15759.5	15018.4	14678.1
11862.7	27.5°	12333.5	13074.7	15256.1	17097.3	17549.4	16976.1	16053.2	15088.3	14193.3	13834.4
11988.6	30°	12641.2	13666.6	16491.3	18136.7	17889.7	16710.4	15442.5	14365.8	13466.2	13088.6
12100.5	32.5°	12953.5	14356.5	17913.0	18887.2	17829.1	16146.4	14682.8	13554.8	12762.4	12366.2
12198.3	35°	13307.7	15204.8	19260.1	19297.4	17423.5	15316.7	13680.6	12585.2	11895.4	11578.4
12314.9	37.5°	13769.2	16281.6	20448.7	19399.9	16715.0	14100.1	12436.1	11438.6	10869.9	10725.4
12487.3	40°	14342.5	17577.4	21357.6	19236.8	15666.3	12622.5	11075.0	10277.9	9956.3	9988.9
12720.4	42.5°	15088.3	19027.0	21996.2	18817.2	14207.3	11098.3	9881.7	9527.5	9681.3	9811.8
13070.0	45°	16057.8	20532.6	22392.4	18104.1	12557.3	9807.2	9177.9	9261.8	9378.3	9392.3
13634.0	47.5°	17297.7	22056.8	22653.4	17027.3	10874.6	8898.2	8730.4	8749.1	8725.8	8627.9
14477.7	50°	18845.2	23539.0	22886.5	15601.0	9443.6	8329.6	8105.8	8040.6	7718.9	7402.0
15601.0	52.5°	20607.1	24900.1	22984.4	13829.8	8329.6	7854.1	7490.5	7080.4	6479.1	6381.2
17013.4	55°	22564.8	26158.6	22732.7	11653.0	7392.7	7243.5	6693.5	6199.4	6134.1	6050.2
18873.2	57.5°	24904.8	27515.0	22219.9	9224.5	6432.5	6530.3	5994.3	6050.2	5933.7	5803.2
21264.4	60°	27463.8	28918.1	21320.3	7010.4	5439.6	5640.0	5812.5	5807.8	5775.2	5668.0
23786.1	62.5°	29766.4	29841.0	19549.1	5369.7	4568.0	4950.2	5421.0	5416.3	5388.3	5327.7
26419.7	65°	31136.8	29701.1	16593.9	4227.7	3850.1	4381.5	4889.6	4926.9	4931.5	4926.9
28400.7	67.5°	30894.4	28065.1	12538.6	3365.4	3258.2	3803.5	4362.9	4414.2	4451.4	4460.8
28652.4	70°	28153.6	24471.3	8175.7	2684.8	2731.5	3295.5	3864.1	3915.4	3948.0	3985.3
24862.8	72.5°	21944.9	17992.2	4679.8	2172.1	2270.0	2857.3	3370.0	3430.6	3449.3	3519.2
17302.4	75°	13373.0	10580.9	2526.4	1710.7	1864.5	2442.5	2880.6	2950.5	2983.2	3067.1
8497.4	77.5°	6357.9	4582.0	1440.3	1333.1	1500.9	1995.0	2433.1	2512.4	2423.8	2470.4
2344.6	80°	2148.8	1701.3	908.9	1016.1	1146.7	1556.8	1948.4	2027.6	1841.2	1831.8
778.4	82.5°	750.5	689.9	578.0	675.9	741.1	1114.0	1472.9	1575.5	1370.4	1365.7
349.6	85°	293.7	279.7	321.6	368.2	442.8	685.2	969.5	1020.8	843.7	680.5
102.5	87.5°	60.6	65.3	79.2	83.9	135.2	237.7	349.6	428.8	340.3	289.0
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>
10049.5
10427.1
10977.1
11611.0
12333.5
13158.6
14174.7
15279.4
15880.7
15568.4
14729.4
13876.4
13130.6
12417.4
11648.3
10828.0
10100.8
9933.0
9485.5
8702.5
7443.9
6413.8
6064.2
5779.9
5630.7
5304.4
4926.9
4470.1
4004.0
3547.2
3076.4
2433.1
1813.2
1300.5
671.2
265.7
0.0

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