

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: P950304

Luminaire Tested: **GALN-SB4D-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-750-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43948 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

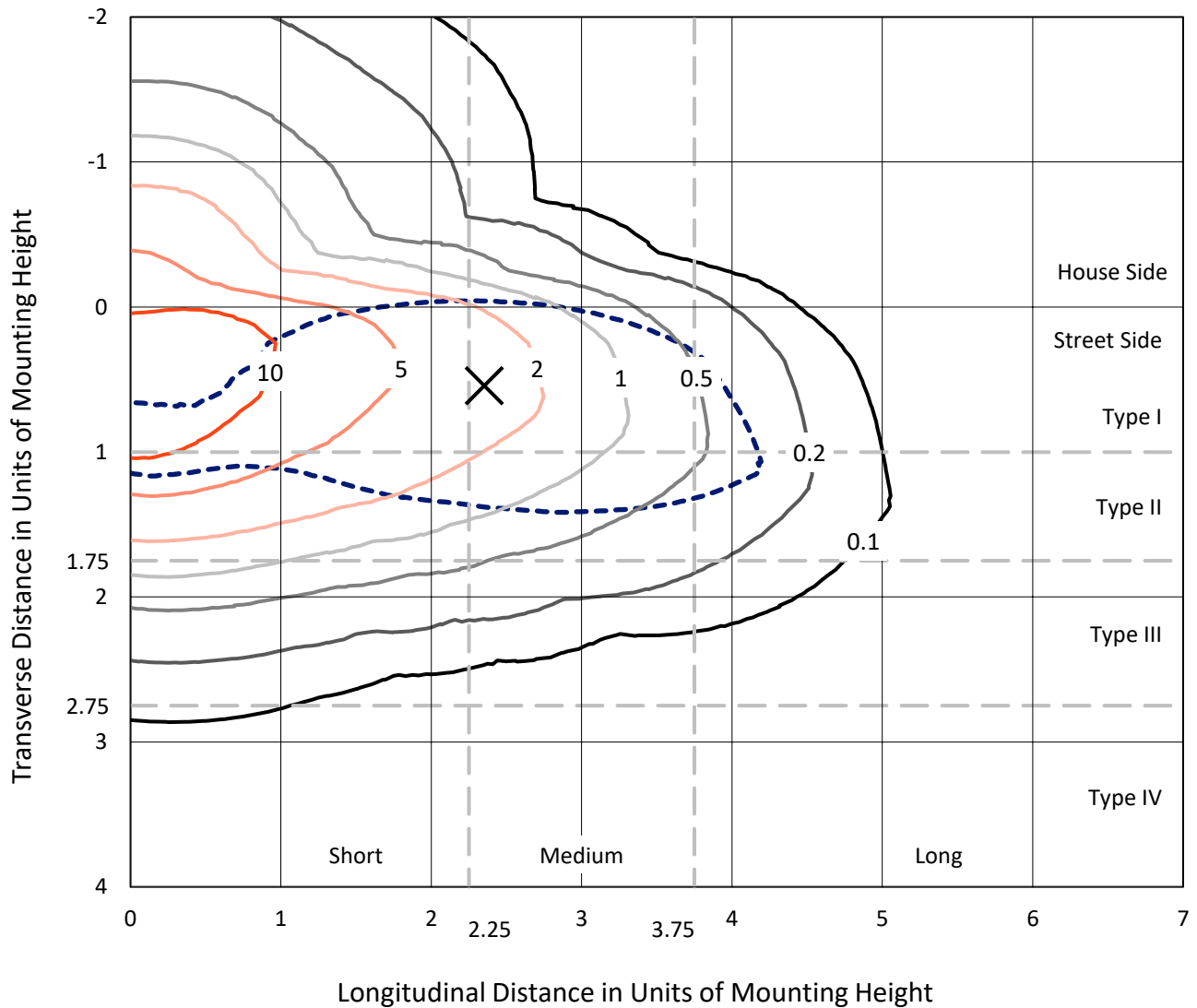
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

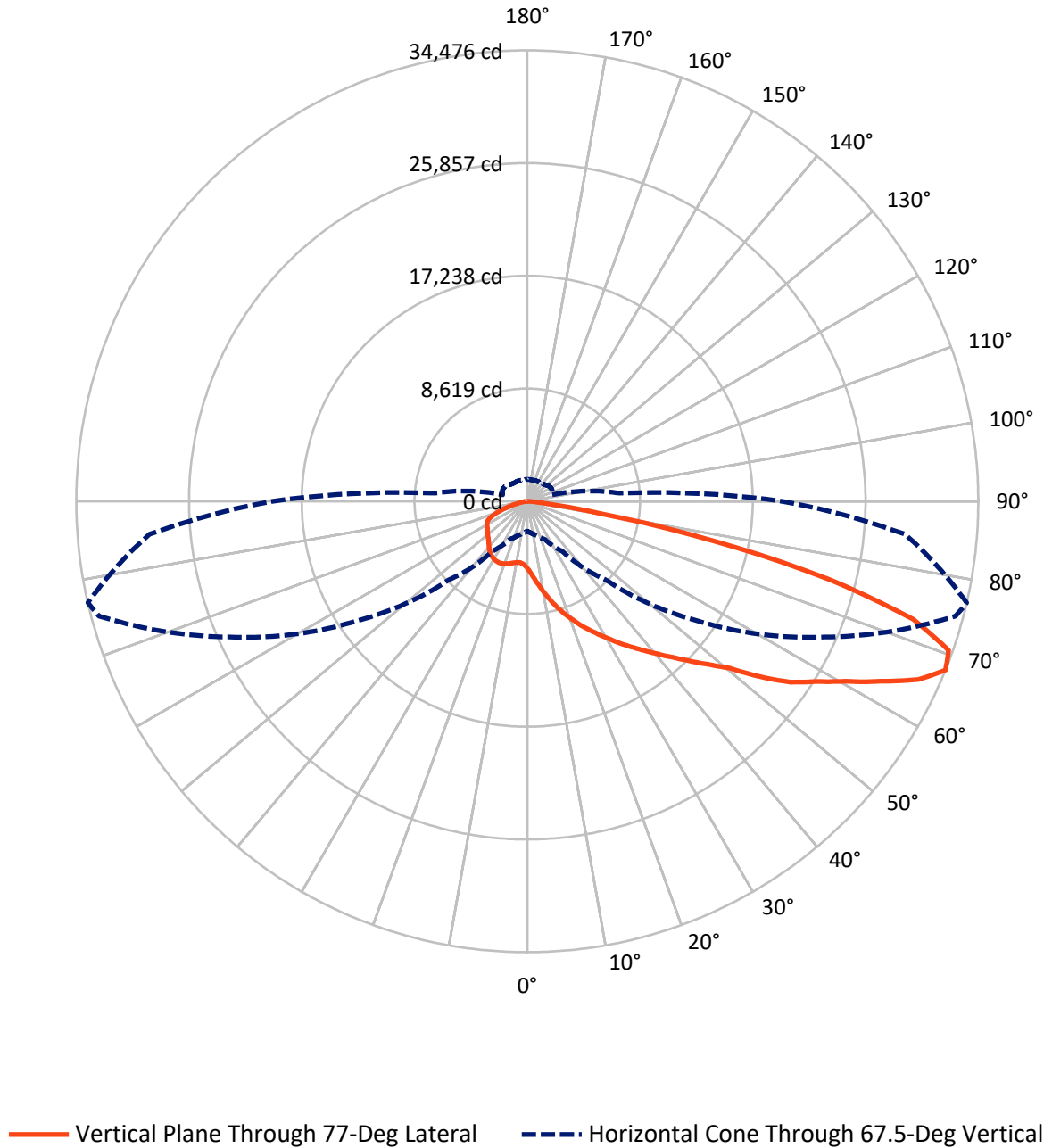
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8313.2	0.0	8313.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	35634.8	0.0	35634.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	43948.0	0.0	43948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.7	1.3
10°-20°	1985.6	4.5
20°-30°	3749.1	8.5
30°-40°	6039.7	13.7
40°-50°	8261.2	18.8
50°-60°	9318.7	21.2
60°-70°	8697.9	19.8
70°-80°	4767.9	10.8
80°-90°	575.1	1.3
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°	43948.0	100.0
0°-180°	43948.0	100.0

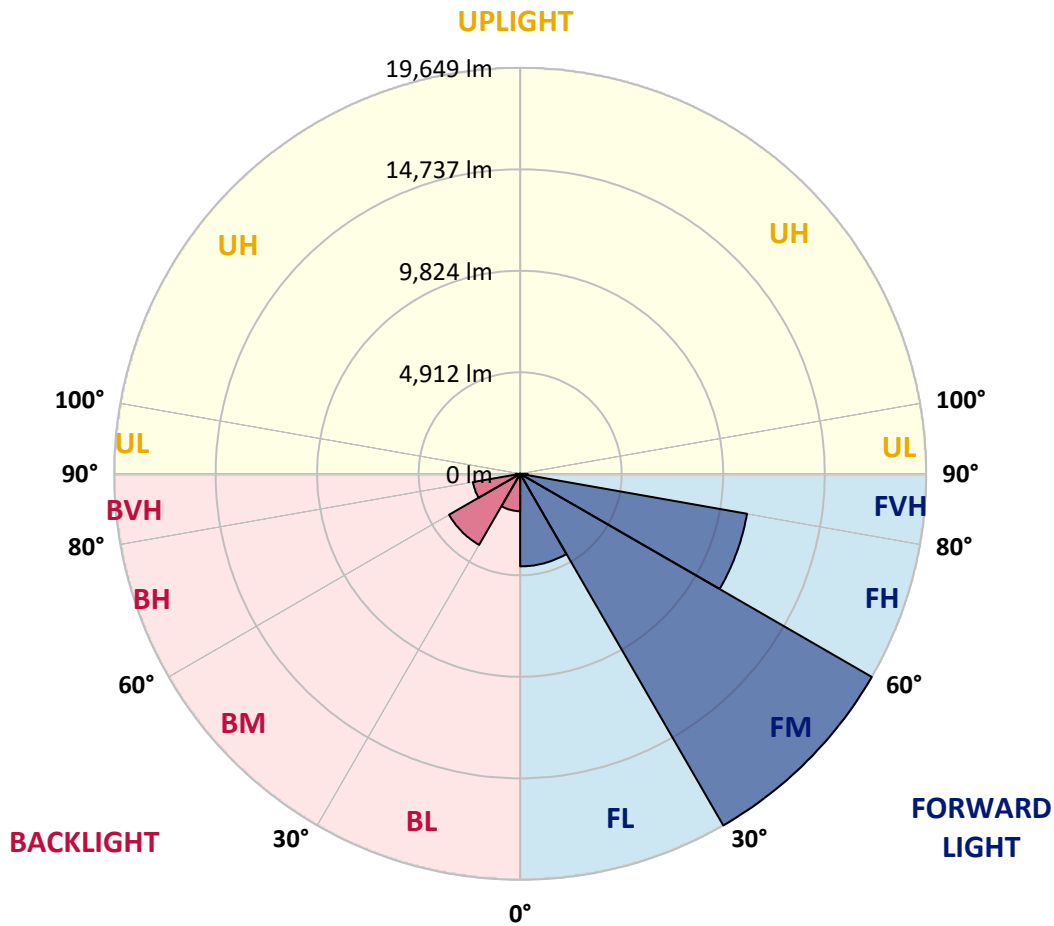


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4480.0	10.2			
FM (30°-60°)	19648.7	44.7			
FH (60°-80°)	11146.5	25.4			G4/12000
FVH (80°-90°)	359.7	0.8			G3/500
BL (0°-30°)	1807.5	4.1	B3/2500		
BM (30°-60°)	3971.0	9.0	B3/5000		
BH (60°-80°)	2319.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	215.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5
2.5°	6456.4	6501.7	6445.0	6445.0	6254.5	6154.6	5964.1	5818.9	5558.0	5512.6	
5°	7631.5	7688.2	7608.8	7574.8	7350.2	7143.7	6823.9	6508.5	6043.5	5995.8	
7.5°	8541.2	8613.8	8543.4	8507.1	8307.5	8076.1	7701.8	7261.7	6606.1	6513.1	
10°	9283.0	9294.3	9271.7	9285.3	9128.7	8938.2	8554.8	8042.1	7223.1	7096.1	
12.5°	9702.7	9754.9	9800.2	9881.9	9854.7	9736.7	9391.9	8779.4	7876.5	7713.1	
15°	9900.1	9990.8	10092.9	10281.2	10433.2	10462.7	10199.5	9571.1	8541.2	8343.8	
17.5°	9970.4	10056.6	10217.7	10489.9	10816.6	11036.6	10918.6	10340.2	9199.1	8972.2	
20°	10326.5	10351.5	10449.0	10707.7	11061.6	11426.8	11515.3	11079.7	9850.1	9593.8	
22.5°	11088.8	11038.9	11066.1	11184.1	11438.1	11792.0	11993.9	11733.1	10519.4	10224.5	
25°	12347.8	12202.7	12057.5	11921.3	12050.7	12250.3	12479.4	12386.4	11220.4	10846.0	
27.5°	13938.1	13761.2	13441.3	12994.4	12837.9	12908.2	13010.3	12992.1	11869.2	11490.3	
30°	15503.4	15297.0	14915.9	14269.3	13856.4	13670.4	13593.3	13541.1	12574.7	12170.9	
32.5°	16753.4	16590.1	16215.8	15492.1	14893.2	14575.6	14319.2	14133.2	13312.0	12908.2	
35°	17846.9	17694.9	17266.1	16476.6	15825.6	15487.5	15151.8	14754.8	14078.8	13670.4	
37.5°	18845.0	18693.0	18105.5	17284.3	16628.6	16395.0	16095.5	15421.8	14847.8	14462.2	
40°	19475.7	19441.7	18892.7	17962.6	17282.0	17166.3	17066.5	16195.3	15700.8	15342.4	
42.5°	19636.8	19711.6	19276.1	18511.6	17862.7	17769.7	18003.4	17071.0	16658.1	16315.6	
45°	19248.8	19464.4	19178.5	18659.0	18275.6	18225.7	18833.7	18028.3	17717.6	17404.5	
47.5°	18266.5	18631.8	18513.8	18441.2	18386.8	18602.3	19564.2	19044.7	18917.6	18645.4	
50°	16283.8	16975.7	17182.2	17640.4	18166.7	18894.9	20228.9	20154.0	20319.6	20045.1	
52.5°	12856.0	13808.8	15006.6	16154.5	17490.7	18797.4	20959.3	21746.5	22445.3	22295.5	
55°	10612.4	11041.1	11962.2	14067.4	16179.5	18386.8	21288.3	23032.8	24555.0	24421.2	
57.5°	8888.3	9271.7	9838.8	11596.9	14196.7	17454.4	21492.5	23817.7	26000.1	25986.5	
60°	7039.4	7445.5	8026.2	9271.7	11880.5	15843.7	21447.1	24711.6	27844.5	27957.9	
62.5°	4952.3	5399.2	6043.5	7205.0	9514.4	13756.6	20521.5	25358.1	30015.5	30324.0	
65°	3255.4	3550.3	4035.8	5038.5	7089.3	11072.9	18754.3	25442.0	32338.5	32860.3	
67.5°	2282.2	2395.6	2681.5	3225.9	4673.3	8491.3	15939.0	24573.2	33887.9	34475.5	
70°	1780.8	1837.5	1982.7	2200.5	2935.5	5710.0	12214.0	22313.7	33556.7	34169.2	
72.5°	1538.1	1592.5	1647.0	1674.2	1969.1	3525.4	8273.5	18656.7	30437.4	30852.6	
75°	1395.2	1408.8	1454.2	1445.1	1501.8	2286.7	4775.3	13593.3	24015.1	23872.2	
77.5°	1172.9	1191.0	1265.9	1254.5	1333.9	1563.0	2479.5	8772.6	15569.2	14598.3	
80°	993.6	1002.7	1084.4	1070.8	1159.2	1132.0	1265.9	4471.4	6603.8	5594.3	
82.5°	344.8	426.5	828.0	853.0	884.7	685.1	730.5	1823.9	2016.8	1544.9	
85°	167.9	179.2	422.0	598.9	596.6	344.8	356.2	651.1	635.2	499.1	
87.5°	27.2	34.0	49.9	233.7	186.0	90.7	122.5	127.0	131.6	113.4	
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°
5156.5	0°	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5	5156.5
5340.2	2.5°	5213.2	5099.8	4861.6	4641.5	4469.1	4303.5	4210.5	4131.1	4085.7	4076.6
5589.8	5°	5353.8	5120.2	4686.9	4321.6	4083.4	3906.5	3813.5	3754.5	3725.0	3706.8
5925.5	7.5°	5555.7	5213.2	4596.1	4181.0	3931.4	3804.4	3756.8	3747.7	3745.4	3747.7
6331.6	10°	5834.8	5365.2	4587.1	4147.0	3938.2	3867.9	3865.6	3867.9	3877.0	3879.3
6774.0	12.5°	6136.5	5521.7	4623.4	4176.4	4024.4	3985.9	3979.1	3976.8	3983.6	3988.2
7220.9	15°	6465.4	5728.1	4684.6	4240.0	4119.7	4078.9	4072.1	4058.5	4056.2	4053.9
7690.5	17.5°	6803.4	5932.3	4752.7	4308.0	4181.0	4124.3	4099.3	4067.6	4042.6	4035.8
8175.9	20°	7146.0	6134.2	4800.3	4342.0	4185.5	4106.1	4056.2	4001.8	3958.7	3933.7
8665.9	22.5°	7511.2	6345.2	4829.8	4333.0	4144.7	4035.8	3945.0	3881.5	3815.7	3772.6
9160.5	25°	7867.4	6529.0	4827.5	4285.3	4065.3	3926.9	3811.2	3729.5	3638.8	3593.4
9670.9	27.5°	8210.0	6694.6	4770.8	4201.4	3951.9	3797.6	3659.2	3561.7	3473.2	3430.1
10185.9	30°	8563.9	6832.9	4682.3	4078.9	3818.0	3647.9	3495.9	3411.9	3332.5	3291.7
10730.3	32.5°	8915.5	6960.0	4557.6	3926.9	3663.7	3500.4	3350.7	3273.6	3225.9	3225.9
11315.6	35°	9287.5	7048.5	4392.0	3750.0	3500.4	3343.9	3225.9	3180.5	3176.0	3148.8
11935.0	37.5°	9680.0	7105.2	4190.1	3568.5	3339.3	3191.9	3155.6	3101.1	3055.8	2996.8
12615.5	40°	10092.9	7161.9	3947.3	3380.2	3169.2	3087.5	3071.6	2999.1	2869.7	2724.6
13386.8	42.5°	10594.2	7200.4	3695.5	3191.9	2990.0	2962.8	2985.4	2860.7	2654.2	2545.3
14317.0	45°	11175.0	7264.0	3464.1	3005.9	2806.2	2806.2	2901.5	2738.2	2568.0	2500.0
15378.7	47.5°	11928.2	7411.4	3248.6	2801.7	2636.1	2681.5	2715.5	2590.7	2495.4	2411.5
16671.7	50°	13017.1	7765.3	3026.3	2595.2	2506.8	2597.5	2549.9	2477.3	2366.1	2298.1
18727.1	52.5°	14369.1	7974.0	2828.9	2409.2	2395.6	2486.4	2418.3	2350.2	2266.3	2175.6
20285.6	55°	15290.2	8012.6	2663.3	2273.1	2320.7	2311.7	2286.7	2225.5	2180.1	2059.9
21823.7	57.5°	16320.1	8089.7	2527.2	2191.4	2273.1	2173.3	2164.2	2112.0	2053.1	1971.4
23699.8	60°	17551.9	8210.0	2409.2	2159.7	2232.3	2082.5	2037.2	2016.8	1957.8	1916.9
25957.0	62.5°	18894.9	8318.9	2289.0	2164.2	2184.6	1994.1	1926.0	1919.2	1882.9	1869.3
28075.9	65°	19811.4	8021.7	2139.3	2159.7	2109.8	1903.3	1817.1	1814.9	1785.4	1780.8
28994.6	67.5°	19491.6	7080.2	1937.4	2096.2	2032.6	1812.6	1717.3	1708.2	1669.7	1671.9
28035.0	70°	17890.0	5737.2	1658.3	1939.6	1937.4	1730.9	1613.0	1583.5	1531.3	1540.4
24375.8	72.5°	14886.4	4251.3	1284.0	1678.7	1785.4	1656.1	1492.7	1445.1	1379.3	1388.4
17994.3	75°	10750.8	2890.2	934.7	1277.2	1554.0	1567.6	1374.8	1293.1	1213.7	1227.3
10015.7	77.5°	5501.3	1637.9	687.4	880.2	1220.5	1424.7	1268.1	1159.2	1141.1	1268.1
2887.9	80°	1794.4	821.2	476.4	617.1	800.8	1166.0	1111.6	986.8	982.3	1011.8
605.7	82.5°	535.4	347.1	306.3	406.1	442.4	893.8	959.6	746.4	642.0	676.0
201.9	85°	183.8	167.9	174.7	201.9	211.0	524.0	671.5	494.5	467.3	515.0
45.4	87.5°	43.1	59.0	49.9	45.4	45.4	127.0	260.9	206.4	285.8	190.6
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>
5156.5
4076.6
3704.6
3754.5
3881.5
3990.4
4051.7
4042.6
3942.8
3774.9
3593.4
3427.8
3289.4
3228.2
3142.0
2987.7
2704.1
2547.6
2511.3
2409.2
2291.3
2157.4
2062.1
1944.2
1928.3
1869.3
1778.6
1671.9
1549.4
1386.1
1231.8
1250.0
868.9
698.7
508.2
183.8
0.0

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