

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: P943519

Luminaire Tested: **GALN-SB8A-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37929 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

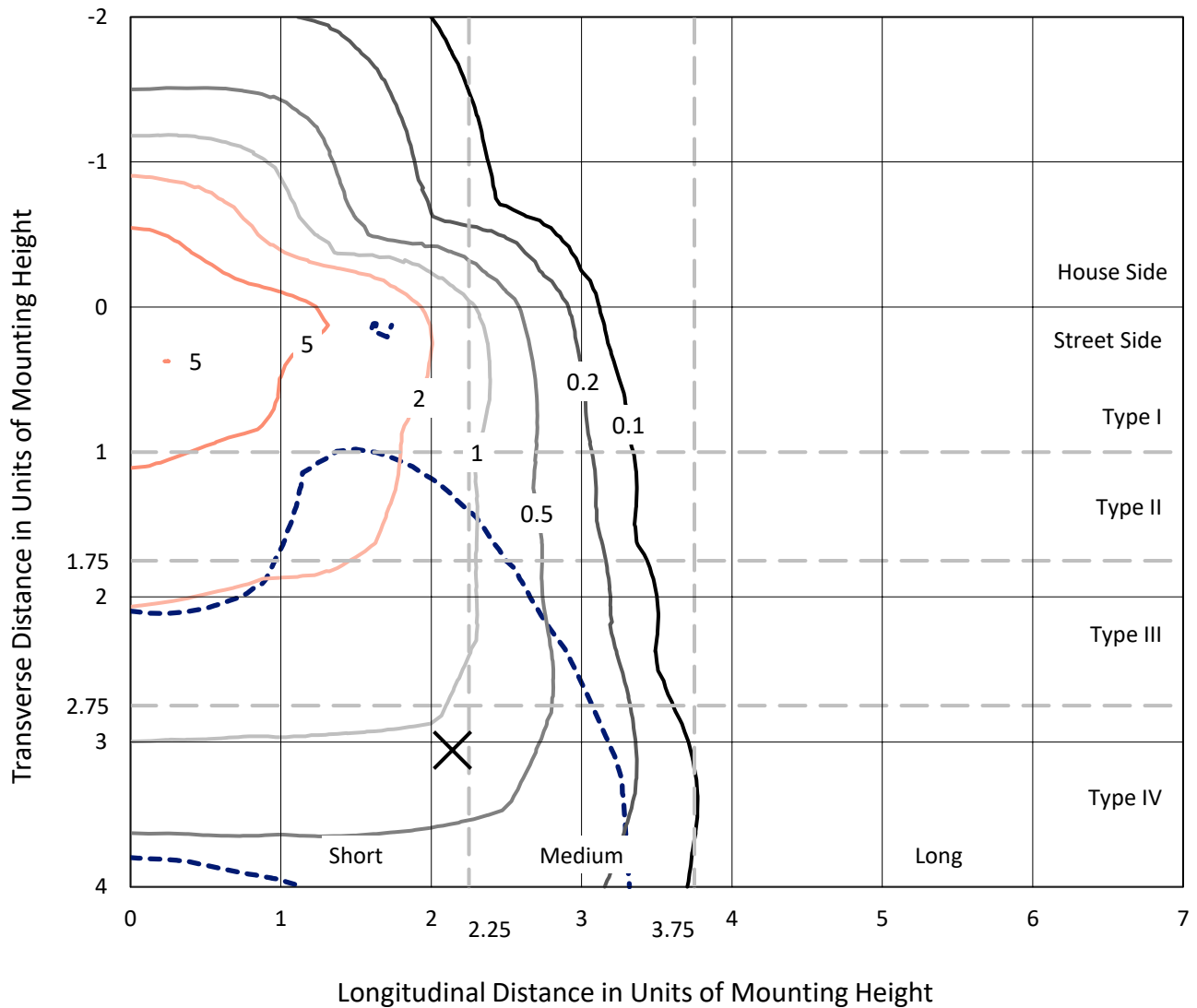
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

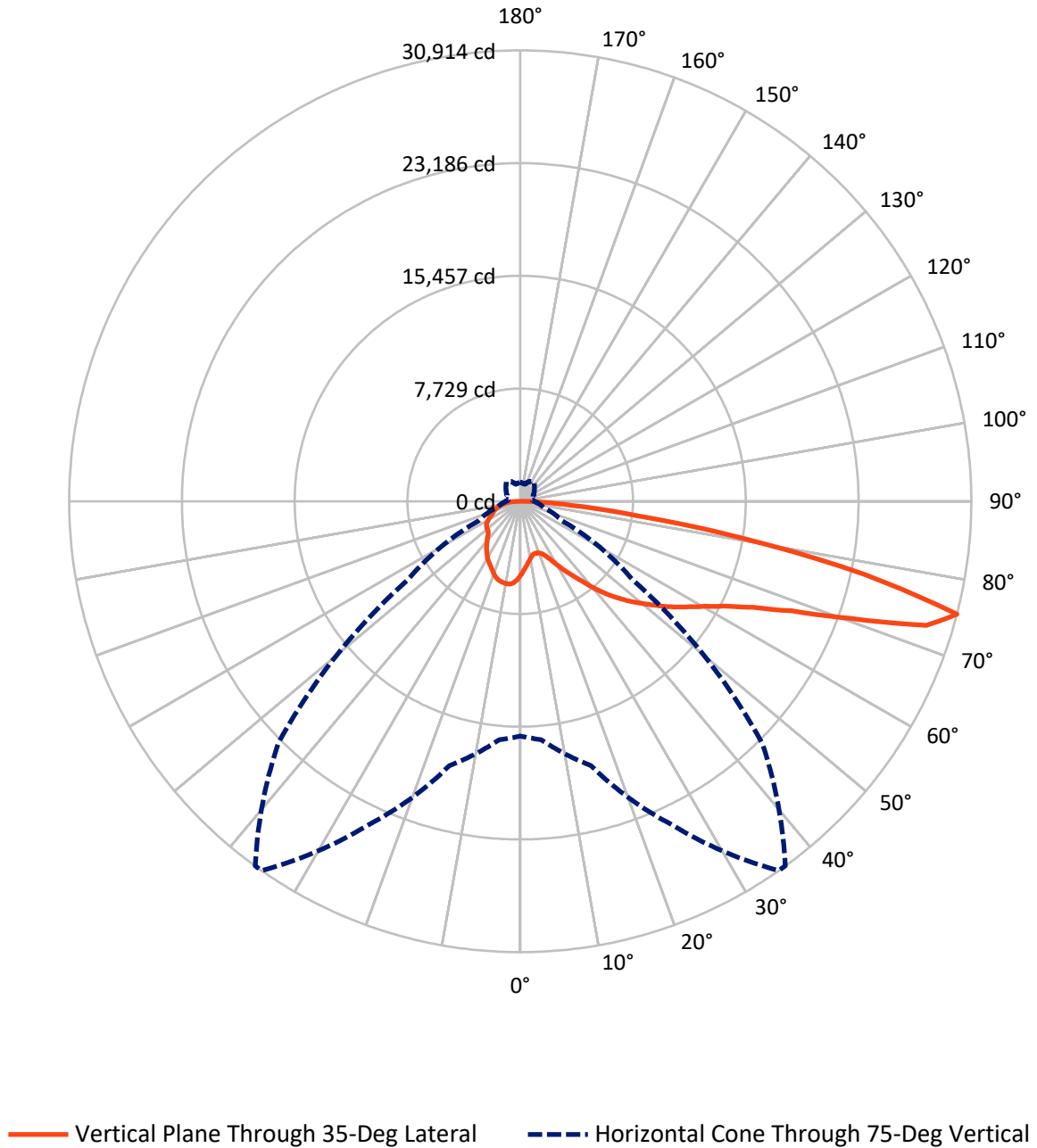
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9026.1	0.0	9026.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28902.8	0.0	28902.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	37929.0	0.0	37929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.5	1.3
10°-20°	1380.3	3.6
20°-30°	2317.9	6.1
30°-40°	3602.4	9.5
40°-50°	5346.9	14.1
50°-60°	7381.7	19.5
60°-70°	8955.6	23.6
70°-80°	7401.2	19.5
80°-90°	1064.5	2.8
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°	37929.0	100.0
0°-180°	37929.0	100.0

Coefficient of Utilization



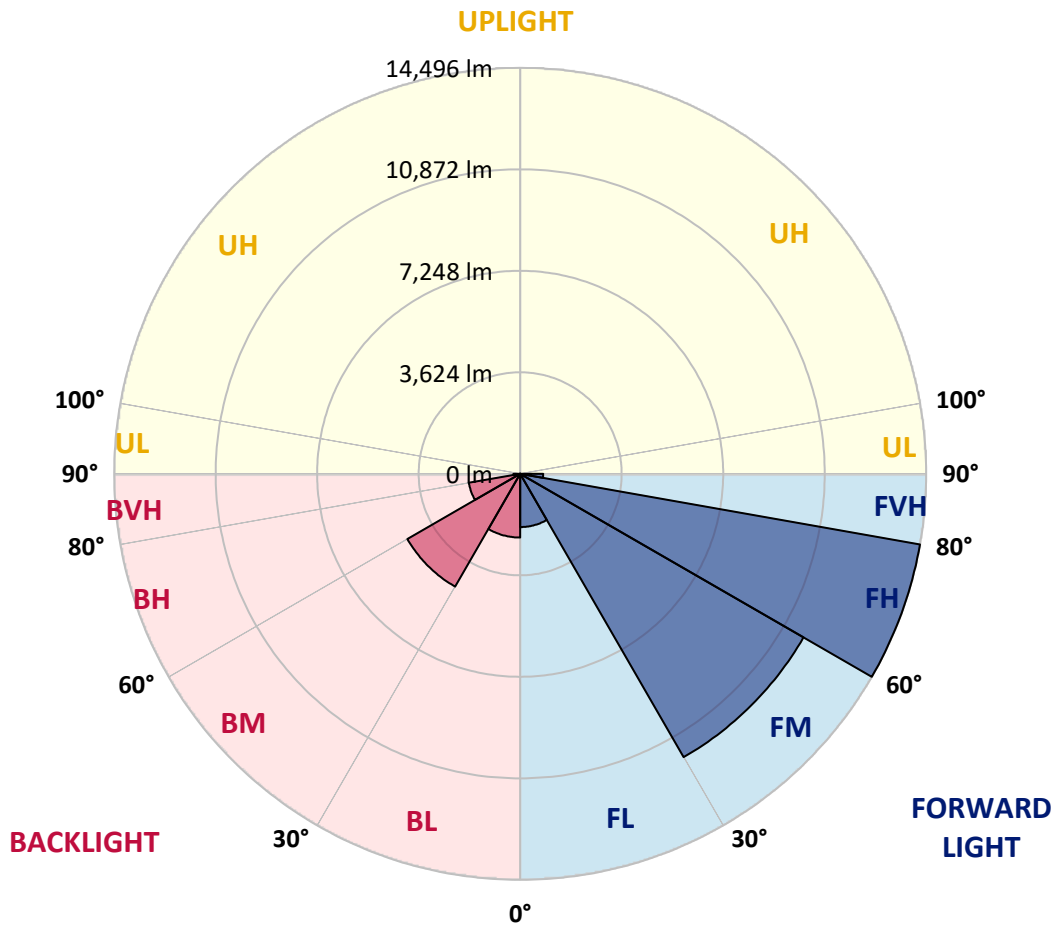
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.1	5.0			
FM (30°-60°)	11680.1	30.8			
FH (60°-80°)	14495.9	38.2			G5
FVH (80°-90°)	824.8	2.2			G5
BL (0°-30°)	2274.7	6.0	B3/2500		
BM (30°-60°)	4650.8	12.3	B3/5000		
BH (60°-80°)	1860.9	4.9	B3/2500		G3/2500
BVH (80°-90°)	239.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3
2.5°	4660.6	4689.3	4701.6	4695.5	4726.2	4722.1	4765.2	4818.5	4892.3	4964.1
5°	4301.8	4332.5	4359.2	4383.8	4443.3	4461.7	4529.4	4631.9	4767.2	4904.6
7.5°	3967.6	3994.2	4035.2	4080.3	4180.8	4199.3	4312.0	4472.0	4660.6	4861.6
10°	3694.9	3721.5	3764.6	3815.8	3940.9	3963.5	4107.0	4320.2	4566.3	4820.5
12.5°	3578.0	3586.2	3610.8	3662.1	3770.7	3785.1	3943.0	4187.0	4474.0	4789.8
15°	3571.8	3588.2	3590.3	3616.9	3707.2	3713.3	3858.9	4100.8	4416.6	4783.6
17.5°	3633.4	3645.7	3627.2	3643.6	3719.5	3729.7	3844.5	4059.8	4398.2	4810.3
20°	3797.4	3807.6	3752.3	3729.7	3785.1	3793.3	3906.1	4086.5	4416.6	4865.7
22.5°	4146.0	4152.1	4016.8	3924.5	3928.6	3932.7	4031.1	4195.2	4488.4	4966.1
25°	4689.3	4685.2	4469.9	4291.5	4189.0	4166.5	4232.1	4371.5	4609.4	5099.4
27.5°	5325.0	5294.2	5078.9	4812.3	4588.8	4556.0	4541.7	4601.2	4781.6	5275.7
30°	6042.6	6013.9	5782.2	5433.6	5124.0	5070.7	4935.4	4904.6	5037.9	5515.6
32.5°	6830.0	6811.5	6534.7	6112.3	5698.1	5636.6	5409.0	5327.0	5431.6	5878.6
35°	7490.2	7473.8	7244.1	6809.5	6303.0	6227.1	5995.4	5903.2	5956.5	6344.0
37.5°	8086.9	8078.7	7881.8	7539.4	7016.6	6924.3	6663.9	6633.1	6622.9	6957.1
40°	8640.5	8620.0	8414.9	8234.5	7847.0	7762.9	7533.3	7506.6	7428.7	7711.6
42.5°	9253.6	9200.3	8902.9	8818.9	8714.3	8644.6	8507.2	8511.3	8339.1	8562.6
45°	9753.9	9723.1	9417.6	9368.4	9481.2	9452.5	9571.4	9602.1	9267.9	9454.5
47.5°	10291.1	10262.4	10004.0	9969.2	10274.7	10282.9	10703.2	10713.5	10174.2	10381.3
50°	10953.4	10912.4	10656.1	10699.1	11041.5	11072.3	11841.2	11771.5	11008.7	11322.4
52.5°	11390.1	11414.7	11359.4	11429.1	11896.6	11925.3	12960.7	12782.3	11835.0	12251.3
55°	11712.0	11761.2	11933.5	12093.4	12798.7	12827.5	14016.7	13744.0	12519.9	13112.5
57.5°	12126.2	12056.5	12378.4	12690.1	13655.8	13731.7	15044.0	14670.8	13126.8	13854.7
60°	12720.8	12671.6	12921.8	13383.1	14615.4	14736.4	16130.7	15505.3	13571.8	14443.2
62.5°	13926.5	13803.5	13842.4	14250.4	15825.2	15985.1	17356.8	16233.2	13793.2	14672.8
65°	15728.8	15517.6	15320.8	15603.7	17529.1	17687.0	18740.9	16805.3	13711.2	14227.9
67.5°	17998.6	17789.5	17547.5	17814.1	20038.8	20163.9	20448.9	17127.2	13065.3	12513.7
70°	19870.7	19792.7	20081.9	21178.8	24047.4	24051.5	22638.7	16860.6	11295.8	8872.2
72.5°	19622.6	19575.4	21098.9	24490.3	29099.6	28990.9	24711.7	14843.0	7609.1	4002.4
75°	16097.9	16403.4	18763.4	24430.8	30914.2	30899.9	23442.5	9436.1	3147.4	1658.8
77.5°	8632.3	9116.2	12181.6	18037.6	24133.5	24496.4	16481.3	3301.2	1351.2	1062.1
80°	2815.2	3237.6	4855.4	9183.9	15681.6	15614.0	7063.7	1295.9	924.7	752.5
82.5°	1195.4	1244.6	2169.3	4336.6	8047.9	7922.8	2249.3	744.3	650.0	514.7
85°	467.5	522.9	957.5	2005.3	3485.7	3409.9	812.0	369.1	416.2	336.3
87.5°	153.8	186.6	342.4	686.9	1084.7	1045.7	198.9	127.1	180.4	153.8
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°
5054.3	0°	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3	5054.3
5068.6	2.5°	5097.4	5130.2	5169.1	5226.5	5275.7	5316.8	5359.8	5386.5	5396.7	5427.5
5076.9	5°	5134.3	5206.0	5302.4	5396.7	5489.0	5544.3	5593.6	5618.2	5640.7	5657.1
5099.4	7.5°	5195.8	5288.0	5439.8	5562.8	5640.7	5685.8	5718.6	5710.4	5718.6	5722.7
5124.0	10°	5249.1	5378.3	5558.7	5675.6	5735.0	5737.1	5728.9	5700.2	5685.8	5687.9
5160.9	12.5°	5312.6	5456.2	5651.0	5749.4	5765.8	5720.7	5685.8	5636.6	5618.2	5610.0
5216.3	15°	5398.8	5562.8	5751.4	5788.3	5747.3	5689.9	5630.5	5550.5	5509.5	5476.7
5310.6	17.5°	5503.3	5683.8	5829.4	5802.7	5714.5	5620.2	5523.8	5402.9	5318.8	5283.9
5439.8	20°	5648.9	5810.9	5888.8	5771.9	5638.7	5495.1	5331.1	5183.5	5105.6	5070.7
5603.8	22.5°	5825.3	5981.1	5946.2	5718.6	5530.0	5300.3	5095.3	4986.6	4947.7	4923.1
5815.0	25°	6036.4	6169.7	5987.2	5640.7	5351.6	5042.0	4884.1	4849.3	4830.8	4812.3
6073.4	27.5°	6311.2	6383.0	6018.0	5525.9	5072.7	4767.2	4709.8	4716.0	4709.8	4679.1
6432.2	30°	6674.1	6659.8	6046.7	5339.3	4752.9	4519.1	4523.2	4549.9	4554.0	4533.5
6932.5	32.5°	7151.9	7006.3	6061.1	5097.4	4447.4	4301.8	4305.9	4334.6	4355.1	4320.2
7586.6	35°	7730.1	7410.2	6038.5	4793.9	4211.6	4094.7	4063.9	4072.1	4078.3	4045.5
8380.1	37.5°	8404.7	7863.4	5938.0	4457.6	4016.8	3891.7	3826.1	3770.7	3737.9	3707.2
9278.2	40°	9144.9	8357.5	5753.5	4129.6	3799.4	3676.4	3578.0	3473.4	3362.7	3321.7
10229.6	42.5°	9920.0	8866.0	5530.0	3815.8	3549.3	3448.8	3344.2	3192.5	3026.4	2942.4
11217.9	45°	10723.7	9386.8	5310.6	3506.2	3293.0	3249.9	3128.9	2946.5	2766.0	2659.4
12208.2	47.5°	11511.1	9878.9	4988.7	3194.6	3053.1	3100.2	3005.9	2837.8	2636.8	2468.7
13190.4	50°	12263.6	10340.3	4461.7	2878.8	2858.3	3055.1	2964.9	2723.0	2493.3	2278.0
14154.1	52.5°	13009.9	10713.5	3787.1	2591.7	2753.7	3042.8	2911.6	2645.0	2364.1	2138.6
15060.4	55°	13643.5	10906.2	3137.1	2345.7	2602.0	2938.3	2848.0	2552.8	2181.7	1941.8
15681.6	57.5°	14004.4	10750.4	2595.8	2103.7	2392.8	2766.0	2739.4	2355.9	1964.3	1779.8
15802.6	60°	13848.6	10118.8	2152.9	1892.5	2194.0	2579.4	2550.7	2161.1	1798.2	1623.9
15154.7	62.5°	12989.4	8915.2	1802.3	1708.0	2013.5	2388.7	2362.1	2011.5	1671.1	1503.0
13434.4	65°	11258.9	7252.4	1529.6	1554.2	1831.0	2159.1	2198.1	1886.4	1570.6	1406.6
10393.6	67.5°	8587.2	5253.2	1316.4	1420.9	1652.6	1933.6	2046.3	1796.2	1486.6	1330.7
6013.9	70°	4894.4	2983.4	1135.9	1291.8	1494.8	1724.4	1929.4	1724.4	1396.3	1267.2
2253.4	72.5°	1855.6	1369.7	982.2	1162.6	1343.0	1548.1	1800.3	1611.6	1291.8	1195.4
1164.6	75°	990.4	834.5	826.3	1010.9	1168.7	1375.8	1638.3	1500.9	1213.9	1263.1
805.8	77.5°	674.6	590.5	691.0	865.3	978.1	1185.1	1466.1	1332.8	1051.9	1047.8
557.7	80°	467.5	418.3	561.8	697.1	756.6	996.5	1279.5	1144.1	857.1	799.7
344.5	82.5°	280.9	272.7	420.3	520.8	535.2	768.9	1060.1	959.6	701.2	611.0
205.0	85°	153.8	162.0	268.6	305.5	311.7	537.2	830.4	742.3	539.3	453.1
73.8	87.5°	43.1	55.4	98.4	121.0	149.7	278.9	494.2	440.8	270.7	188.6
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>
5054.3
5425.4
5661.2
5728.9
5692.0
5605.9
5486.9
5286.0
5066.6
4927.2
4812.3
4685.2
4543.7
4336.6
4068.0
3727.7
3340.1
2952.6
2651.2
2450.3
2259.6
2114.0
1921.2
1755.2
1599.3
1476.3
1379.9
1306.1
1250.8
1179.0
<i>1304.1</i>
965.7
764.8
615.1
457.2
188.6
0.0

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