

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: P943079

Luminaire Tested: **GALN-SB7B-850-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943079
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-SB7B-850-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37860 lumens
Efficiency: N/A
Efficacy: 147.5 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

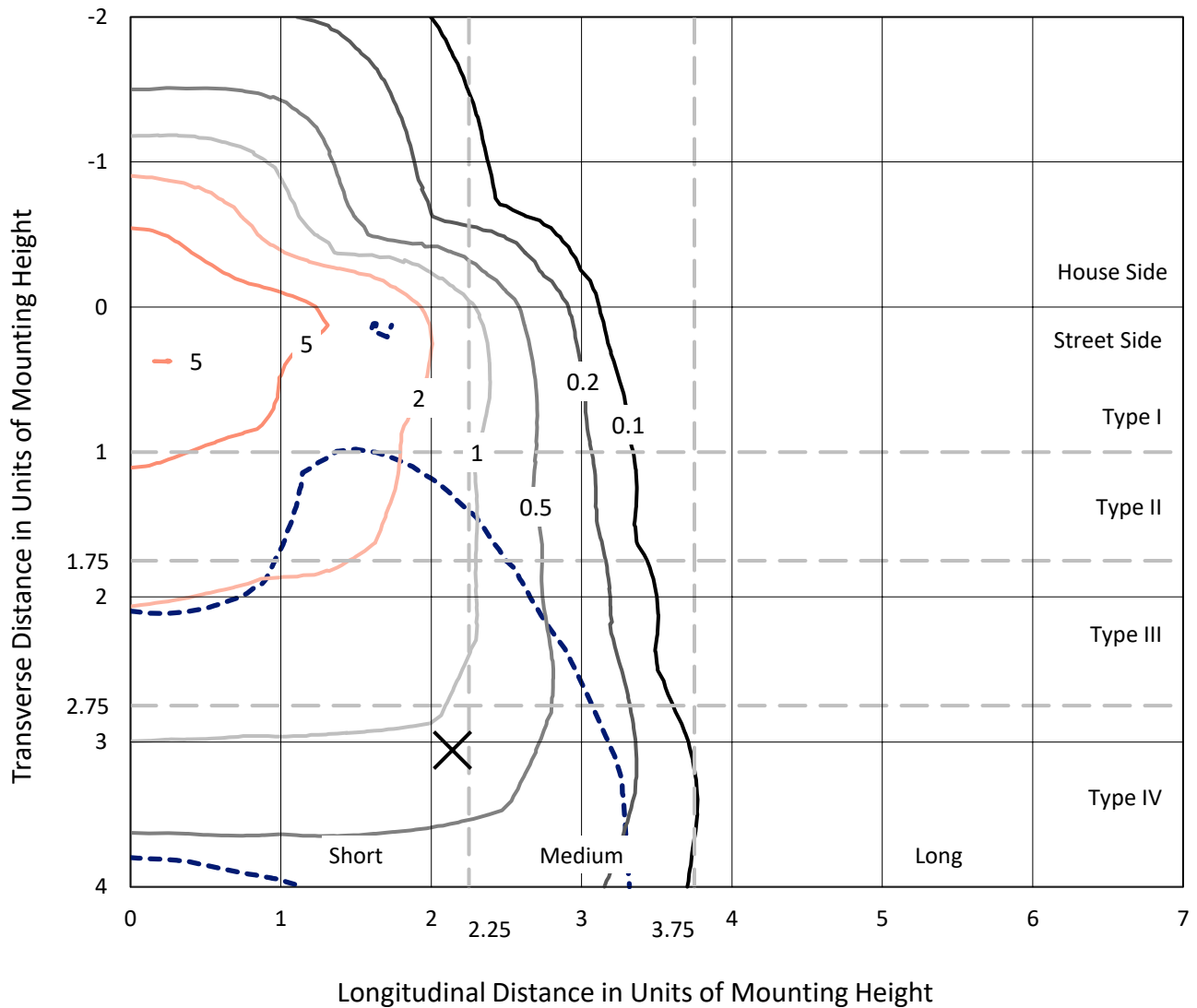
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943079
 CATALOG NUMBER: GALN-SB7B-850-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

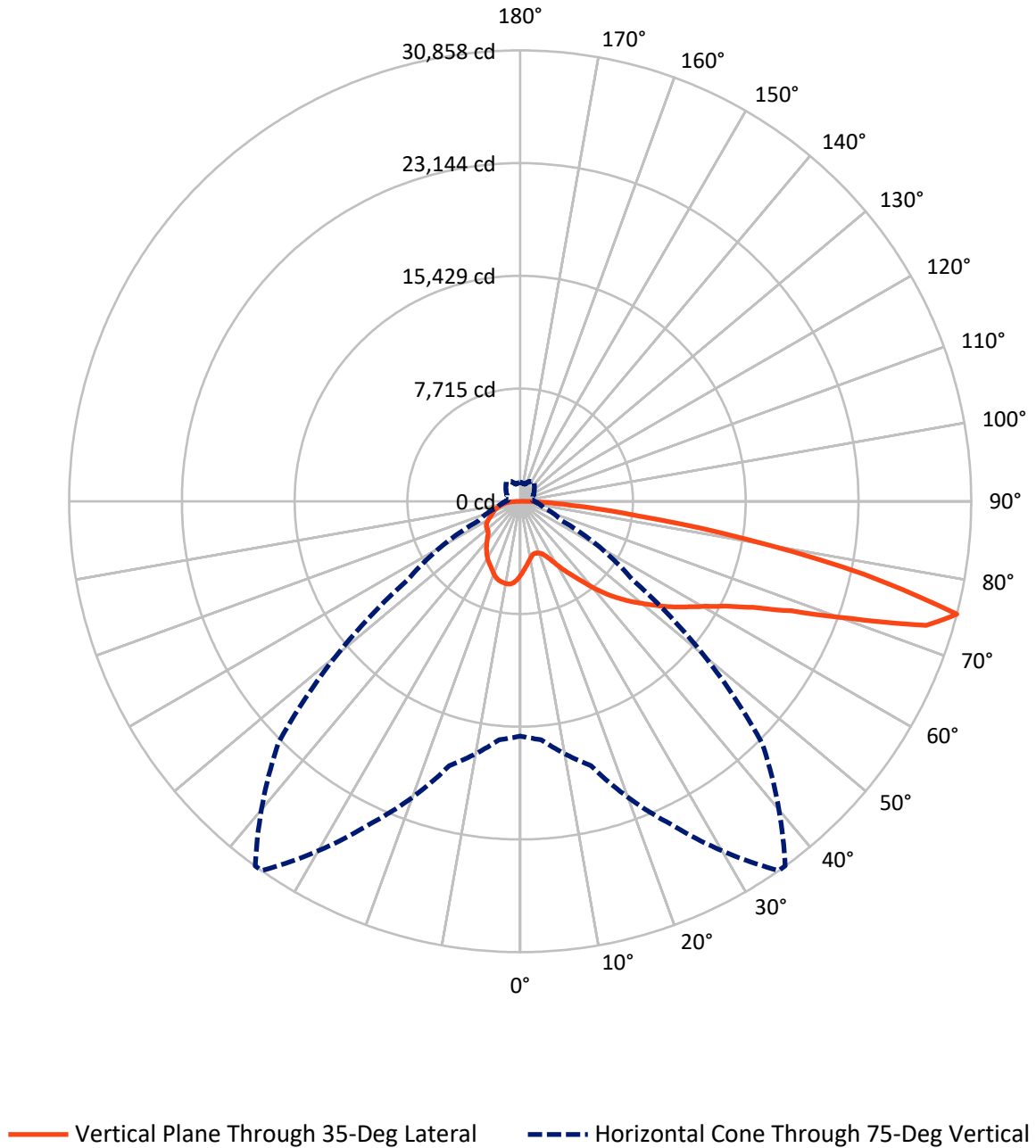
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P943079
CATALOG NUMBER: GALN-SB7B-850-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9009.7	0.0	9009.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	28850.3	0.0	28850.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	37860.0	0.0	37860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.7	1.3
10°-20°	1377.8	3.6
20°-30°	2313.7	6.1
30°-40°	3595.8	9.5
40°-50°	5337.1	14.1
50°-60°	7368.2	19.5
60°-70°	8939.4	23.6
70°-80°	7387.7	19.5
80°-90°	1062.6	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°	37860.0	100.0
0°-180°	37860.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943079

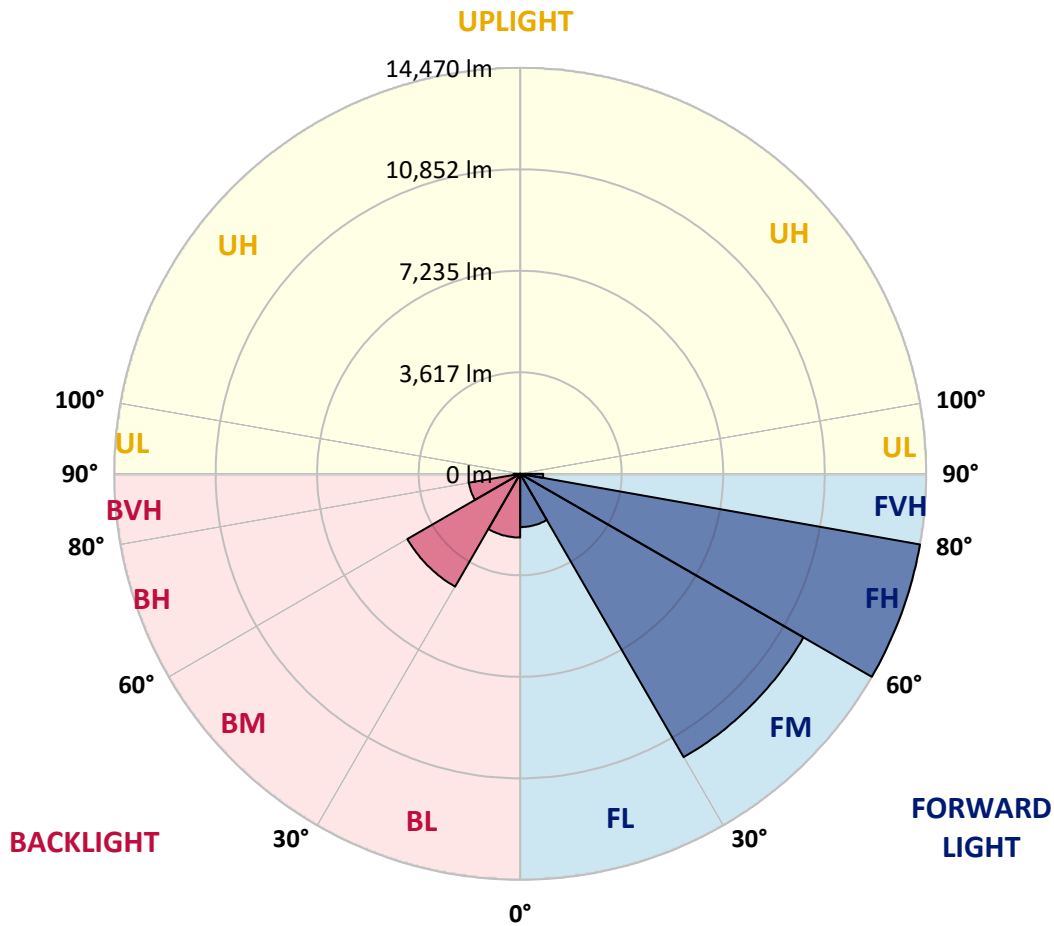
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.6	5.0			
FM (30°-60°)	11658.8	30.8			
FH (60°-80°)	14469.5	38.2			G5
FVH (80°-90°)	823.3	2.2			G5
BL (0°-30°)	2270.6	6.0	B3/2500		
BM (30°-60°)	4642.4	12.3	B3/5000		
BH (60°-80°)	1857.5	4.9	B3/2500		G3/2500
BVH (80°-90°)	239.3	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



REPORT NUMBER: P943079

CATALOG NUMBER: GALN-SB7B-850-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1
2.5°	4652.1	4680.8	4693.1	4686.9	4717.6	4713.5	4756.5	4809.7	4883.4	4955.0
5°	4294.0	4324.7	4351.3	4375.8	4435.2	4453.6	4521.1	4623.5	4758.6	4895.7
7.5°	3960.4	3987.0	4027.9	4072.9	4173.2	4191.6	4304.2	4463.8	4652.1	4852.7
10°	3688.1	3714.7	3757.7	3808.9	3933.7	3956.3	4099.5	4312.4	4558.0	4811.8
12.5°	3571.5	3579.7	3604.2	3655.4	3763.9	3778.2	3935.8	4179.3	4465.9	4781.1
15°	3565.3	3581.7	3583.8	3610.4	3700.4	3706.6	3851.9	4093.4	4408.6	4774.9
17.5°	3626.7	3639.0	3620.6	3637.0	3712.7	3722.9	3837.6	4052.5	4390.2	4801.5
20°	3790.5	3800.7	3745.5	3722.9	3778.2	3786.4	3899.0	4079.1	4408.6	4856.8
22.5°	4138.4	4144.6	4009.5	3917.4	3921.5	3925.6	4023.8	4187.5	4480.2	4957.1
25°	4680.8	4676.7	4461.8	4283.7	4181.4	4158.9	4224.4	4363.6	4601.0	5090.1
27.5°	5315.3	5284.6	5069.7	4803.6	4580.5	4547.8	4533.4	4592.8	4772.9	5266.1
30°	6031.6	6003.0	5771.7	5423.7	5114.7	5061.5	4926.4	4895.7	5028.7	5505.6
32.5°	6817.5	6799.1	6522.8	6101.2	5687.8	5626.4	5399.2	5317.3	5421.7	5867.9
35°	7476.6	7460.2	7231.0	6797.1	6291.5	6215.8	5984.5	5892.4	5945.6	6332.5
37.5°	8072.2	8064.0	7867.5	7525.7	7003.8	6911.7	6651.8	6621.1	6610.8	6944.4
40°	8624.8	8604.3	8399.6	8219.5	7832.7	7748.8	7519.6	7492.9	7415.2	7697.6
42.5°	9236.7	9183.5	8886.7	8802.8	8698.5	8628.9	8491.7	8495.8	8323.9	8547.0
45°	9736.1	9705.4	9400.5	9351.3	9463.9	9435.3	9554.0	9584.7	9251.1	9437.3
47.5°	10272.4	10243.7	9985.8	9951.0	10256.0	10264.2	10683.7	10694.0	10155.7	10362.4
50°	10933.4	10892.5	10636.7	10679.7	11021.4	11052.1	11819.7	11750.1	10988.7	11301.8
52.5°	11369.4	11393.9	11338.7	11408.3	11874.9	11903.6	12937.2	12759.1	11813.5	12229.0
55°	11690.7	11739.8	11911.8	12071.4	12775.5	12804.1	13991.2	13719.0	12497.1	13088.6
57.5°	12104.1	12034.6	12355.9	12667.0	13631.0	13706.7	15016.6	14644.1	13102.9	13829.5
60°	12697.7	12648.6	12898.3	13358.8	14588.8	14709.6	16101.3	15477.1	13547.1	14416.9
62.5°	13901.1	13778.3	13817.2	14224.5	15796.4	15956.0	17325.3	16203.7	13768.1	14646.1
65°	15700.2	15489.4	15292.9	15575.3	17497.2	17654.8	18706.8	16774.7	13686.2	14202.0
67.5°	17965.9	17757.1	17515.6	17781.7	20002.3	20127.2	20411.7	17096.0	13041.5	12491.0
70°	19834.5	19756.7	20045.3	21140.3	24003.6	24007.7	22597.6	16830.0	11275.2	8856.0
72.5°	19586.9	19539.8	21060.5	24445.7	29046.7	28938.2	24666.8	14816.0	7595.3	3995.1
75°	16068.6	16373.6	18729.3	24386.4	30858.0	30843.7	23399.9	9418.9	3141.7	1655.8
77.5°	8616.6	9099.6	12159.4	18004.8	24089.6	24451.9	16451.3	3295.2	1348.8	1060.2
80°	2810.1	3231.7	4846.6	9167.1	15653.1	15585.6	7050.9	1293.5	923.1	751.1
82.5°	1193.2	1242.3	2165.4	4328.8	8033.3	7908.4	2245.2	742.9	648.8	513.7
85°	466.6	521.9	955.8	2001.7	3479.4	3403.7	810.5	368.4	415.5	335.7
87.5°	153.5	186.2	341.8	685.6	1082.7	1043.8	198.5	126.9	180.1	153.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943079
 CATALOG NUMBER: GALN-SB7B-850-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5045.1	0°	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1	5045.1
5059.4	2.5°	5088.1	5120.8	5159.7	5217.0	5266.1	5307.1	5350.1	5376.7	5386.9	5417.6
5067.6	5°	5124.9	5196.6	5292.8	5386.9	5479.0	5534.3	5583.4	5607.9	5630.5	5646.8
5090.1	7.5°	5186.3	5278.4	5429.9	5552.7	5630.5	5675.5	5708.2	5700.0	5708.2	5712.3
5114.7	10°	5239.5	5368.5	5548.6	5665.2	5724.6	5726.7	5718.5	5689.8	5675.5	5677.5
5151.5	12.5°	5303.0	5446.3	5640.7	5738.9	5755.3	5710.3	5675.5	5626.4	5607.9	5599.8
5206.8	15°	5388.9	5552.7	5741.0	5777.8	5736.9	5679.6	5620.2	5540.4	5499.5	5466.7
5300.9	17.5°	5493.3	5673.4	5818.8	5792.1	5704.1	5610.0	5513.8	5393.0	5309.1	5274.3
5429.9	20°	5638.6	5800.3	5878.1	5761.4	5628.4	5485.1	5321.4	5174.0	5096.3	5061.5
5593.6	22.5°	5814.7	5970.2	5935.4	5708.2	5519.9	5290.7	5086.0	4977.6	4938.7	4914.1
5804.4	25°	6025.5	6158.5	5976.3	5630.5	5341.9	5032.8	4875.2	4840.4	4822.0	4803.6
6062.3	27.5°	6299.7	6371.4	6007.0	5515.8	5063.5	4758.6	4701.3	4707.4	4701.3	4670.6
6420.5	30°	6662.0	6647.7	6035.7	5329.6	4744.2	4510.9	4515.0	4541.6	4545.7	4525.2
6919.9	32.5°	7138.9	6993.6	6050.0	5088.1	4439.3	4294.0	4298.1	4326.7	4347.2	4312.4
7572.8	35°	7716.0	7396.8	6027.5	4785.2	4203.9	4087.2	4056.5	4064.7	4070.9	4038.1
8364.8	37.5°	8389.4	7849.1	5927.2	4449.5	4009.5	3884.6	3819.1	3763.9	3731.1	3700.4
9261.3	40°	9128.3	8342.3	5743.0	4122.0	3792.5	3669.7	3571.5	3467.1	3356.6	3315.6
10211.0	42.5°	9901.9	8849.9	5519.9	3808.9	3542.8	3442.5	3338.2	3186.7	3020.9	2937.0
11197.5	45°	10704.2	9369.8	5300.9	3499.8	3287.0	3244.0	3123.3	2941.1	2761.0	2654.6
12186.0	47.5°	11490.1	9861.0	4979.6	3188.7	3047.5	3094.6	3000.5	2832.6	2632.0	2464.2
13166.4	50°	12241.3	10321.5	4453.6	2873.6	2853.1	3049.6	2959.5	2718.0	2488.8	2273.9
14128.3	52.5°	12986.3	10694.0	3780.2	2587.0	2748.7	3037.3	2906.3	2640.2	2359.8	2134.7
15033.0	55°	13618.7	10886.4	3131.4	2341.4	2597.3	2932.9	2842.9	2548.1	2177.7	1938.2
15653.1	57.5°	13978.9	10730.8	2591.1	2099.9	2388.5	2761.0	2734.4	2351.7	1960.7	1776.5
15773.9	60°	13823.4	10100.4	2149.0	1889.1	2190.0	2574.7	2546.1	2157.2	1795.0	1621.0
15127.1	62.5°	12965.8	8899.0	1799.0	1704.9	2009.9	2384.4	2357.8	2007.8	1668.1	1500.2
13409.9	65°	11238.4	7239.2	1526.8	1551.4	1827.7	2155.2	2194.1	1883.0	1567.8	1404.0
10374.7	67.5°	8571.6	5243.6	1314.0	1418.4	1649.6	1930.0	2042.6	1792.9	1483.9	1328.3
6003.0	70°	4885.5	2977.9	1133.9	1289.4	1492.0	1721.3	1925.9	1721.3	1393.8	1264.9
2249.3	72.5°	1852.3	1367.2	980.4	1160.5	1340.6	1545.3	1797.0	1608.7	1289.4	1193.2
1162.5	75°	988.6	833.0	824.8	1009.0	1166.6	1373.3	1635.3	1498.2	1211.6	1260.8
804.4	77.5°	673.4	589.4	689.7	863.7	976.3	1183.0	1463.4	1330.4	1050.0	1045.9
556.7	80°	466.6	417.5	560.8	695.9	755.2	994.7	1277.1	1142.1	855.5	798.2
343.8	82.5°	280.4	272.2	419.6	519.9	534.2	767.5	1058.1	957.9	700.0	609.9
204.7	85°	153.5	161.7	268.1	305.0	311.1	536.2	828.9	740.9	538.3	452.3
73.7	87.5°	43.0	55.3	98.2	120.8	149.4	278.4	493.3	440.0	270.2	188.3
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>
5045.1
5415.6
5650.9
5718.5
5681.6
5595.7
5477.0
5276.4
5057.4
4918.2
4803.6
4676.7
4535.5
4328.8
4060.6
3720.9
3334.1
2947.2
2646.4
2445.8
2255.5
2110.1
1917.8
1752.0
1596.4
1473.6
1377.4
1303.7
1248.5
1176.8
<i>1301.7</i>
964.0
763.4
614.0
456.4
188.3
0.0

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