

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: P943018

Luminaire Tested: **GALN-SB7B-750-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-750-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32078 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

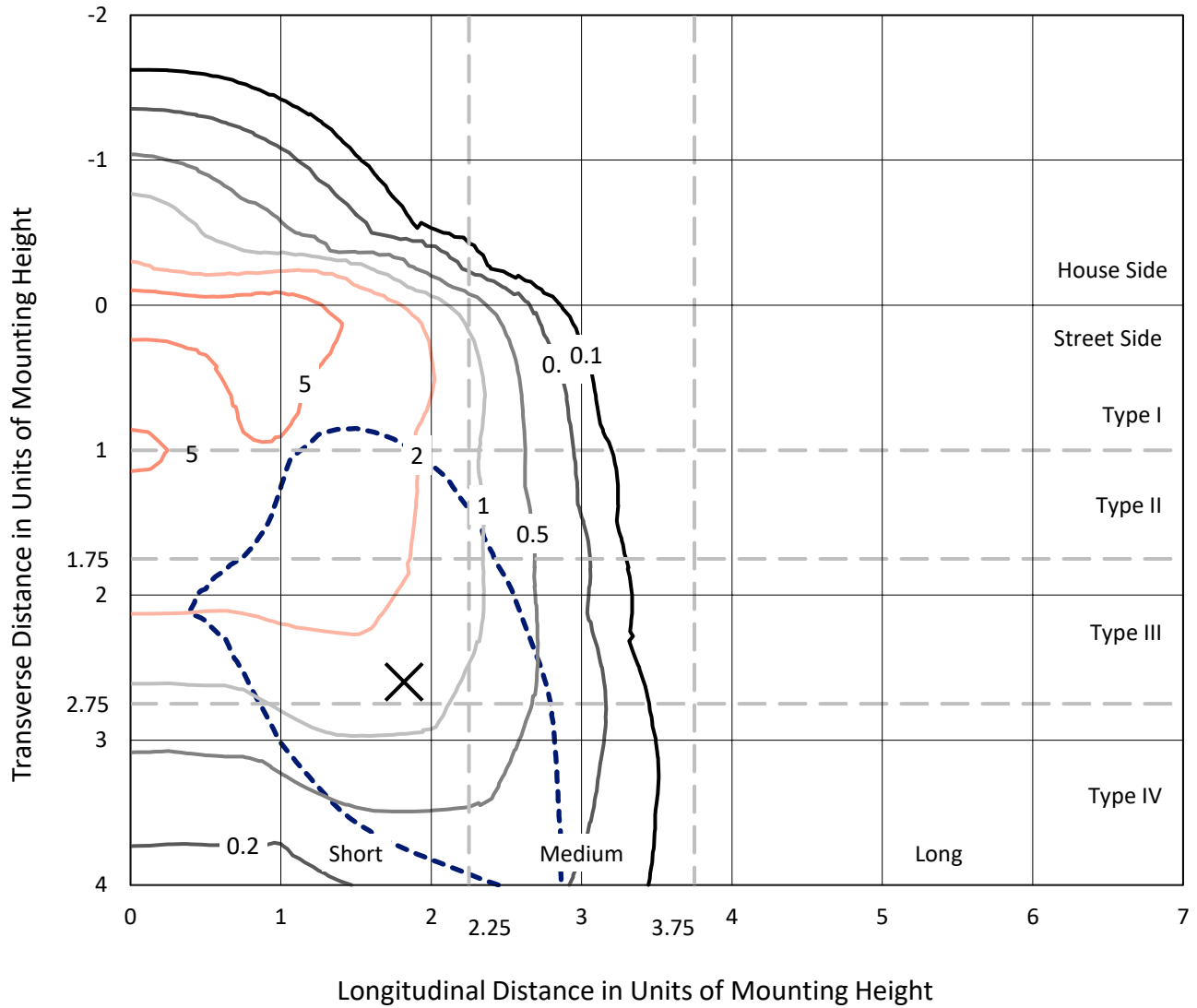
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

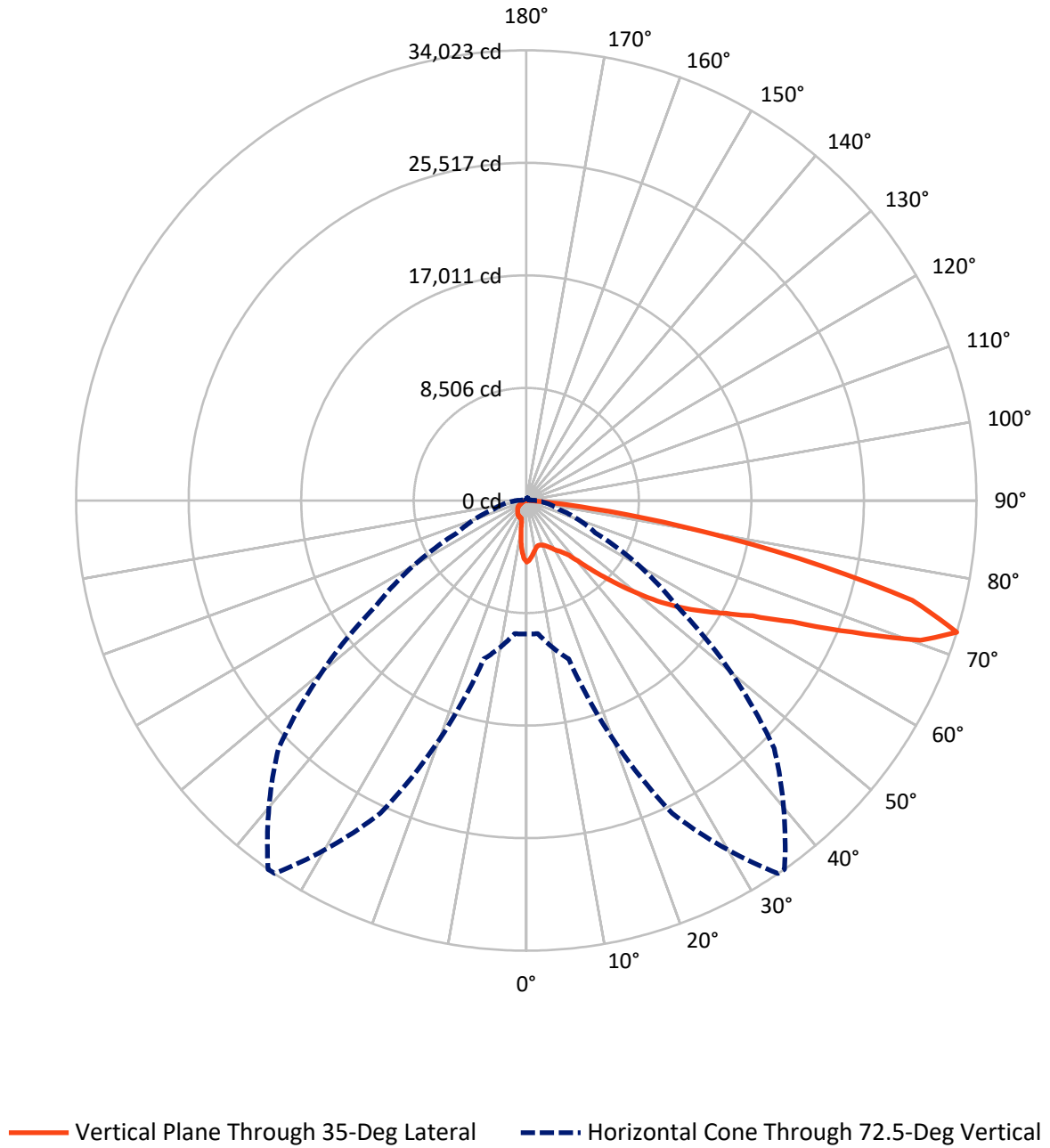
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3610.2	0.0	3610.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28467.8	0.0	28467.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	32078.0	0.0	32078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	1.2
10°-20°	893.7	2.8
20°-30°	1451.8	4.5
30°-40°	2422.4	7.6
40°-50°	4583.2	14.3
50°-60°	7282.7	22.7
60°-70°	9009.2	28.1
70°-80°	5600.2	17.5
80°-90°	452.6	1.4
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°	32078.0	100.0
0°-180°	32078.0	100.0

Coefficient of Utilization

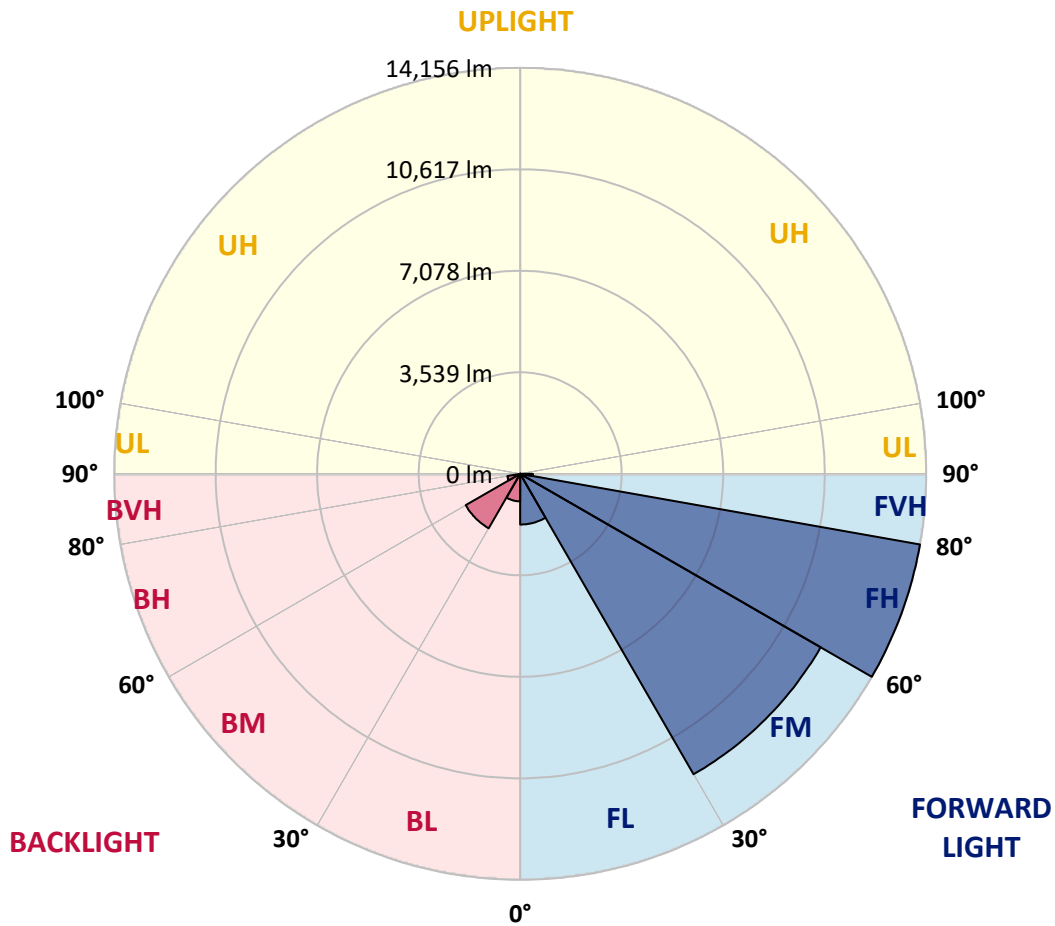


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1768.3	5.5			
FM (30°-60°)	12096.6	37.7			
FH (60°-80°)	14156.4	44.1			G5
FVH (80°-90°)	446.4	1.4			G3/500
BL (0°-30°)	959.3	3.0	B2/1000		
BM (30°-60°)	2191.7	6.8	B2/2500		
BH (60°-80°)	453.0	1.4	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2
2.5°	4442.3	4479.9	4487.0	4498.7	4498.7	4512.9	4536.4	4569.3	4623.3	4651.5
5°	4094.5	4122.7	4157.9	4186.1	4240.2	4247.3	4338.9	4428.2	4552.8	4646.8
7.5°	3744.3	3777.2	3824.2	3892.3	3962.8	3984.0	4122.7	4273.1	4470.5	4646.8
10°	3497.5	3499.8	3542.1	3610.3	3723.1	3749.0	3918.2	4132.1	4378.9	4618.6
12.5°	3358.8	3375.2	3394.0	3445.8	3553.9	3570.3	3751.3	4002.8	4287.2	4602.2
15°	3358.8	3370.5	3382.3	3408.1	3495.1	3509.2	3669.0	3920.5	4240.2	4609.2
17.5°	3394.0	3412.8	3403.4	3434.0	3525.7	3535.1	3676.1	3897.0	4237.9	4653.9
20°	3478.7	3492.8	3474.0	3492.8	3584.4	3603.2	3749.0	3941.7	4277.8	4731.4
22.5°	3612.6	3619.7	3575.0	3589.1	3683.1	3706.6	3875.9	4068.6	4374.2	4856.0
25°	3781.9	3796.0	3727.8	3744.3	3833.6	3861.8	4056.9	4259.0	4527.0	5027.6
27.5°	3977.0	3984.0	3925.2	3922.9	4038.1	4078.0	4275.5	4494.0	4731.4	5243.8
30°	4200.2	4221.4	4165.0	4155.6	4301.3	4334.2	4529.3	4783.2	5032.3	5568.2
32.5°	4376.5	4393.0	4360.1	4383.6	4531.7	4557.5	4837.2	5192.1	5504.7	6028.9
35°	4630.4	4639.8	4564.6	4606.9	4776.1	4841.9	5257.9	5765.6	6099.4	6607.1
37.5°	5549.4	5549.4	5229.7	5020.5	5182.7	5241.5	5833.8	6487.2	6832.7	7382.7
40°	6821.0	6799.8	6332.1	5904.3	5883.2	5998.3	6654.1	7396.8	7780.0	8313.5
42.5°	8177.2	8144.3	7507.3	7084.2	7013.7	7053.7	7601.3	8518.0	8908.2	9448.8
45°	9380.6	9371.2	8788.3	8219.5	8092.6	8219.5	8783.6	9829.6	10109.3	10678.1
47.5°	10389.0	10389.0	9963.5	9592.2	9526.3	9601.6	10384.3	11284.5	11258.6	11987.3
50°	11550.1	11540.7	11136.4	10976.6	11044.7	11150.5	12227.0	12817.0	12448.0	13273.0
52.5°	12363.3	12419.7	12281.1	12255.2	12603.1	12786.4	14098.0	14316.6	13512.7	14492.8
55°	13007.4	13073.2	13233.0	13414.0	14083.9	14323.6	15910.2	15738.6	14403.5	15550.5
57.5°	13919.3	13825.3	14072.1	14429.4	15512.9	15802.0	17665.9	17080.7	15120.4	16408.4
60°	15026.4	15040.5	15082.8	15534.1	16939.6	17311.0	19395.9	18349.9	15581.1	16934.9
62.5°	16356.7	16377.9	16464.9	17158.2	18855.3	19205.5	21238.6	19388.8	15792.6	16786.9
65°	16265.1	16354.4	17325.1	19696.7	21767.5	22113.0	23389.3	20117.4	15473.0	15433.0
67.5°	14817.2	14962.9	16587.1	22728.8	26158.1	26543.6	25988.9	20260.8	14093.3	12001.4
70°	12918.0	12969.7	14923.0	25455.3	31242.1	31632.3	28315.8	18683.7	10694.5	6694.1
72.5°	10088.1	10099.9	12391.5	26087.6	34001.5	34022.7	26489.5	13870.0	5751.5	2571.4
75°	7206.5	7135.9	8299.4	21156.3	29914.1	30153.8	19858.9	6506.0	2197.7	1215.2
77.5°	3864.1	3941.7	4696.2	12546.7	20665.1	21074.1	10835.5	1875.7	1118.8	827.4
80°	1194.0	1259.8	1925.0	5744.5	11705.2	11952.0	4016.9	834.4	780.3	590.0
82.5°	376.1	390.2	897.9	2413.9	4858.4	4971.2	1163.5	472.4	533.6	390.2
85°	108.1	110.5	399.6	900.2	1201.1	1224.6	326.7	183.3	305.6	242.1
87.5°	11.8	37.6	150.4	150.4	105.8	103.4	35.3	40.0	87.0	30.6
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°
4649.2	0°	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2	4649.2
4670.3	2.5°	4658.6	4660.9	4630.4	4578.7	4522.3	4475.2	4416.5	4369.5	4336.6	4327.2
4712.6	5°	4691.5	4675.0	4588.1	4430.6	4242.6	4080.4	3899.4	3756.0	3662.0	3622.0
4757.3	7.5°	4740.8	4693.8	4503.5	4193.2	3833.6	3513.9	3189.6	2938.1	2778.2	2698.3
4799.6	10°	4783.2	4689.1	4362.4	3850.0	3300.0	2815.8	2378.6	2075.4	1906.2	1826.3
4849.0	12.5°	4823.1	4686.8	4179.1	3443.4	2698.3	2106.0	1699.4	1548.9	1501.9	1485.5
4928.9	15°	4898.3	4693.8	3948.7	2978.0	2098.9	1591.3	1443.2	1440.8	1450.2	1445.5
5051.1	17.5°	5001.7	4700.9	3687.8	2484.4	1619.5	1403.2	1396.2	1417.3	1431.4	1424.4
5203.9	20°	5135.7	4729.1	3410.5	1995.5	1391.5	1356.2	1372.7	1391.5	1403.2	1391.5
5408.4	22.5°	5323.8	4778.5	3107.3	1603.0	1318.6	1328.0	1342.1	1363.3	1375.0	1358.6
5669.3	25°	5554.1	4856.0	2808.8	1393.8	1283.3	1295.1	1316.2	1339.8	1353.9	1337.4
5998.3	27.5°	5852.6	4980.6	2533.8	1346.8	1248.1	1255.1	1285.7	1320.9	1339.8	1318.6
6466.1	30°	6285.1	5185.1	2296.4	1368.0	1226.9	1210.5	1252.8	1302.1	1323.3	1304.5
7103.0	32.5°	6858.6	5474.2	2150.7	1400.9	1217.5	1158.8	1198.7	1262.2	1297.4	1285.7
7935.1	35°	7610.7	5913.7	2094.2	1438.5	1210.5	1104.7	1132.9	1201.1	1262.2	1273.9
8983.4	37.5°	8522.7	6524.8	2110.7	1454.9	1189.3	1060.1	1074.2	1132.9	1212.8	1250.4
10163.3	40°	9559.3	7237.0	2204.7	1438.5	1165.8	1022.4	1024.8	1069.5	1140.0	1196.4
11432.6	42.5°	10628.7	8069.1	2378.6	1377.4	1144.7	989.5	982.5	1013.0	1060.1	1100.0
12699.4	45°	11646.4	8924.6	2550.2	1292.7	1118.8	956.6	940.2	951.9	961.3	977.8
13933.4	47.5°	12534.9	9526.3	2500.9	1215.2	1083.6	919.0	890.8	886.1	857.9	855.6
15035.8	50°	13148.4	9658.0	2221.2	1137.6	1031.8	876.7	832.1	803.9	754.5	731.0
15860.8	52.5°	13343.5	9138.5	1814.5	1060.1	947.2	820.3	756.8	712.2	651.1	629.9
16335.6	55°	13084.9	8120.8	1450.2	966.0	829.7	745.1	674.6	615.8	566.5	540.6
16387.3	57.5°	12452.7	6825.7	1147.0	855.6	705.1	660.5	590.0	531.2	488.9	463.0
15813.8	60°	11404.4	5420.1	907.3	723.9	601.7	568.8	495.9	458.3	420.7	390.2
14333.0	62.5°	9813.1	3868.8	712.2	573.5	503.0	465.4	423.1	394.9	350.2	307.9
11670.0	65°	7657.7	2366.9	550.0	420.7	404.3	385.5	359.6	333.8	279.7	237.4
7613.1	67.5°	4830.2	1121.2	392.5	317.3	319.7	310.3	298.5	277.4	237.4	199.8
3410.5	70°	2127.2	543.0	258.5	242.1	237.4	237.4	246.8	239.7	202.1	166.9
1184.6	72.5°	723.9	291.5	192.7	183.3	171.6	169.2	206.8	199.8	162.2	129.3
590.0	75°	378.4	195.1	141.0	131.6	103.4	124.6	164.5	155.1	115.2	84.6
390.2	77.5°	246.8	138.7	96.4	84.6	58.8	82.3	122.2	108.1	68.2	42.3
256.2	80°	155.1	91.7	56.4	40.0	28.2	44.7	65.8	47.0	25.9	9.4
150.4	82.5°	82.3	47.0	21.2	14.1	11.8	14.1	16.5	11.8	4.7	0.0
77.6	85°	32.9	16.5	7.1	4.7	2.4	0.0	4.7	2.4	0.0	0.0
14.1	87.5°	11.8	2.4	0.0	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>
4649.2
4343.6
3636.1
2710.1
1828.6
1480.8
1443.2
1422.0
1389.1
1356.2
1335.1
1318.6
1302.1
1285.7
1273.9
1259.8
1215.2
1116.5
987.2
853.2
733.3
627.6
540.6
458.3
383.1
300.9
230.3
195.1
159.8
122.2
77.6
37.6
7.1
0.0
0.0
0.0
0.0

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