

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: P953980

Luminaire Tested: **GALN-SB7B-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29274 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

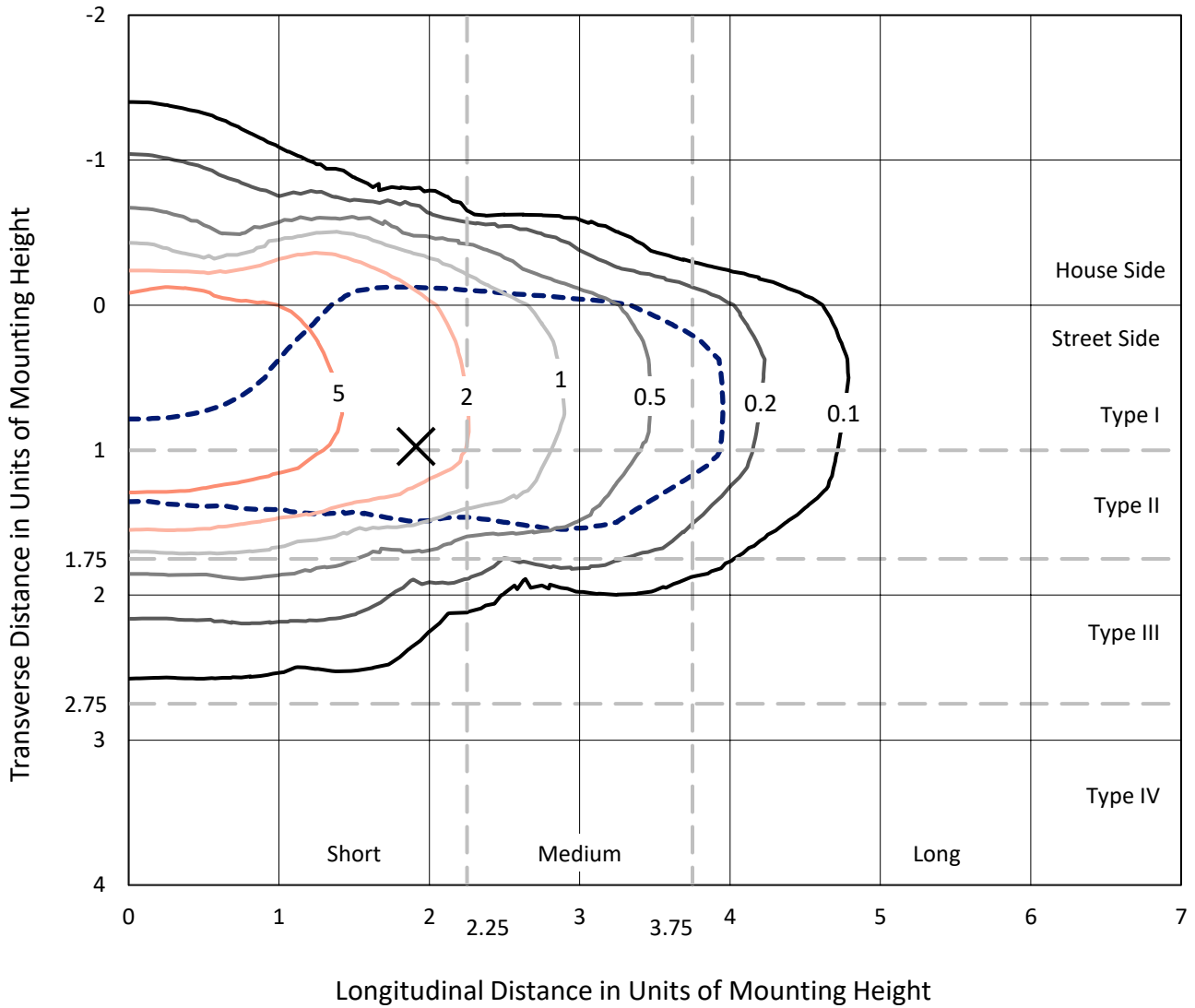
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

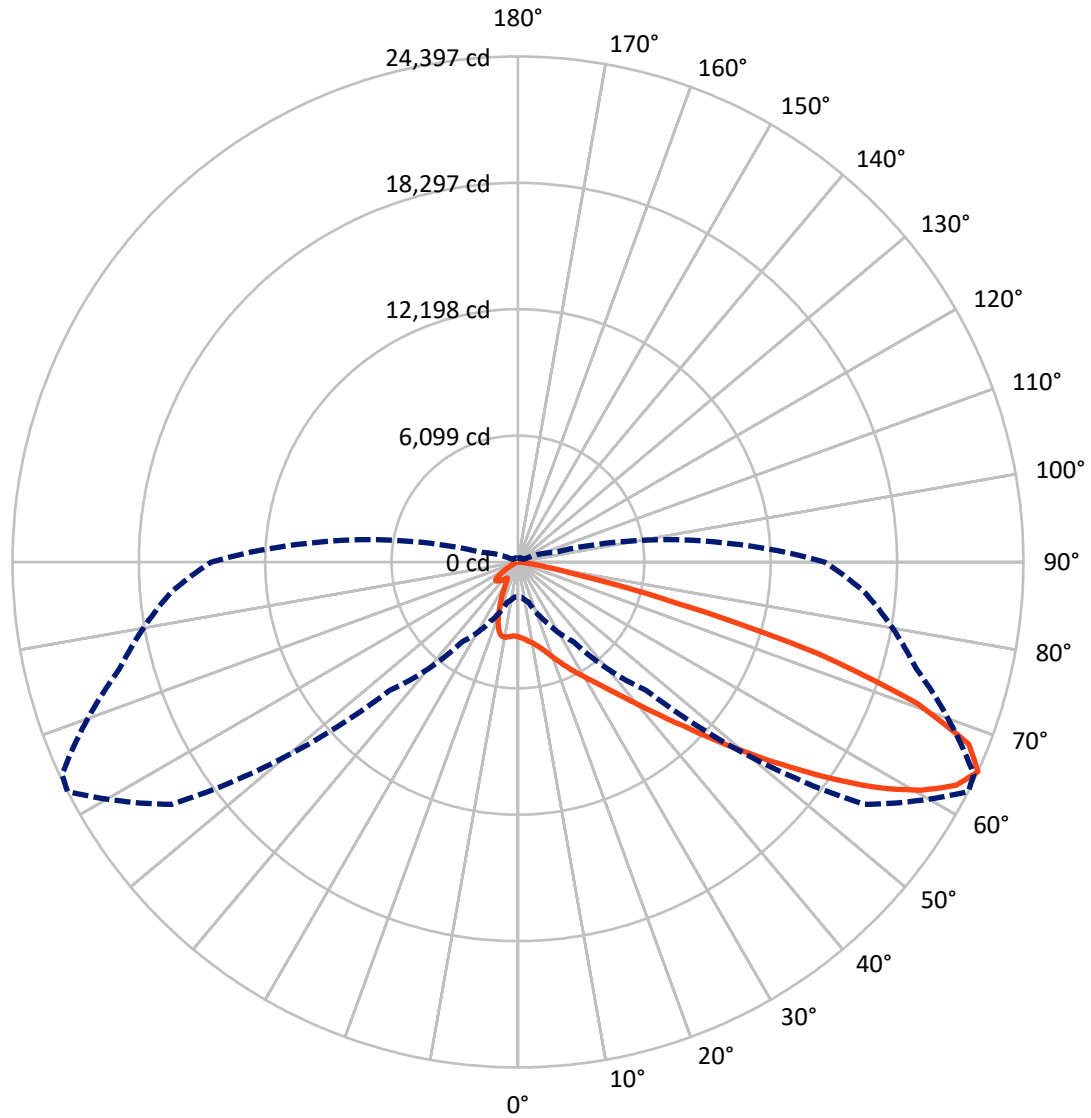
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4303.1	0.0	4303.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24970.9	0.0	24970.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	29274.0	0.0	29274.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	1.2
10°-20°	944.5	3.2
20°-30°	1644.6	5.6
30°-40°	2964.3	10.1
40°-50°	5879.1	20.1
50°-60°	8008.3	27.4
60°-70°	6392.2	21.8
70°-80°	2892.6	9.9
80°-90°	207.9	0.7
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°	29274.0	100.0
0°-180°	29274.0	100.0

Coefficient of Utilization



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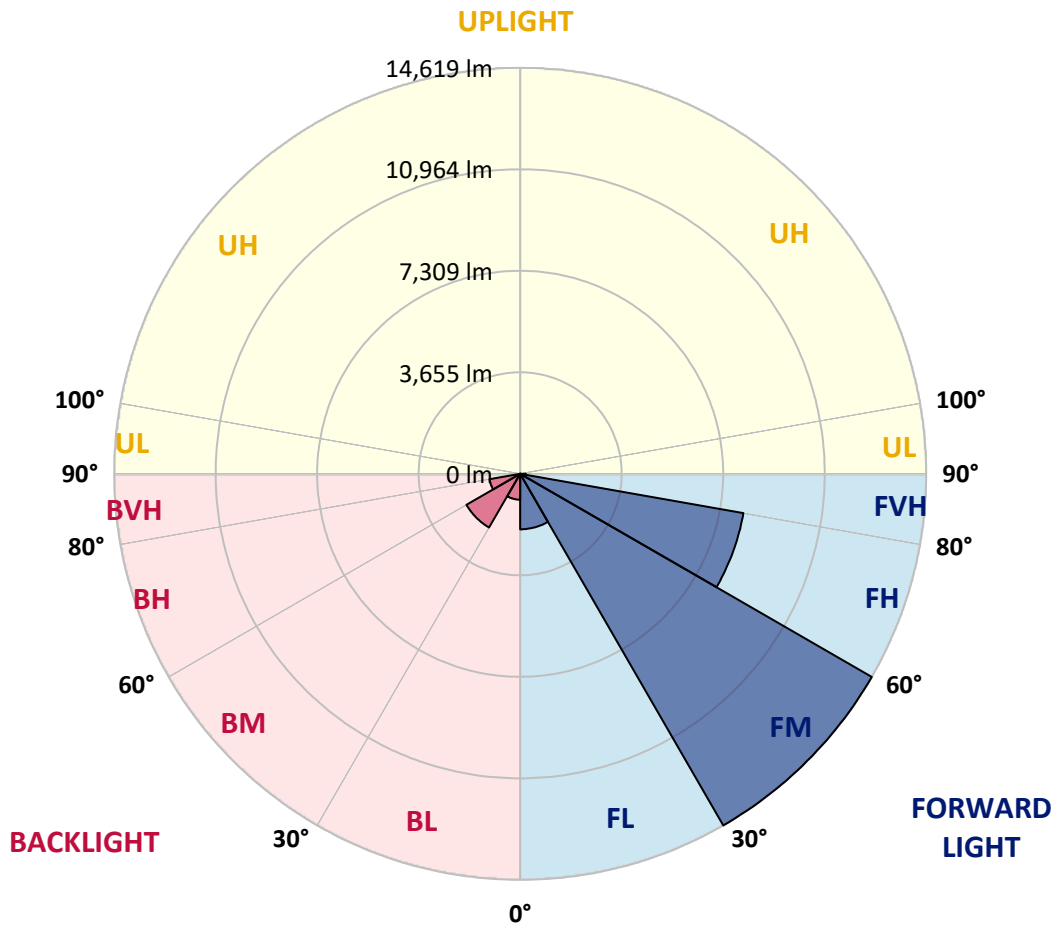
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1998.3	6.8			
FM (30°-60°)	14618.7	49.9			
FH (60°-80°)	8161.5	27.9			G4/12000
FVH (80°-90°)	192.5	0.7			G2/225
BL (0°-30°)	931.2	3.2	B2/1000		
BM (30°-60°)	2233.0	7.6	B2/2500		
BH (60°-80°)	1123.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	15.4	0.1			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0
2.5°	3697.5	3687.5	3701.6	3695.5	3691.5	3683.5	3679.4	3675.4	3667.3	3661.3
5°	3707.6	3701.6	3715.7	3727.8	3739.8	3751.9	3758.0	3766.0	3758.0	3741.9
7.5°	3623.0	3619.0	3649.2	3685.5	3739.8	3786.2	3836.5	3864.7	3866.7	3860.7
10°	3617.0	3606.9	3637.1	3681.4	3751.9	3834.5	3923.1	3983.5	3991.6	4017.8
12.5°	3711.6	3701.6	3743.9	3792.2	3864.7	3951.3	4060.1	4144.6	4156.7	4193.0
15°	3870.7	3856.6	3905.0	3967.4	4060.1	4158.7	4273.5	4350.1	4360.1	4404.4
17.5°	4056.0	4041.9	4098.3	4164.8	4265.5	4400.4	4533.3	4617.9	4630.0	4658.2
20°	4293.7	4275.5	4319.8	4380.3	4487.0	4648.1	4807.2	4928.1	4926.0	4926.0
22.5°	4569.6	4541.4	4579.6	4628.0	4728.7	4924.0	5135.5	5278.5	5278.5	5222.1
25°	4865.6	4837.4	4879.7	4924.0	5012.6	5234.2	5481.9	5659.1	5667.2	5570.5
27.5°	5236.2	5199.9	5232.2	5284.5	5336.9	5562.4	5856.5	6061.9	6065.9	5916.9
30°	5949.1	5846.4	5745.7	5689.3	5713.5	5937.0	6251.2	6478.8	6498.9	6293.5
32.5°	7254.1	7234.0	6879.5	6416.3	6174.7	6339.8	6692.2	6966.1	6978.2	6714.4
35°	9282.1	9258.0	8688.0	7805.9	7018.5	6879.5	7227.9	7552.2	7544.1	7246.1
37.5°	11702.9	11680.7	10929.5	9749.4	8474.6	7695.2	7918.7	8259.1	8309.4	7918.7
40°	13771.2	13688.6	13213.3	12075.4	10407.9	9048.5	8901.5	9127.1	9179.4	8716.2
42.5°	15338.0	15267.5	15025.8	14314.9	12748.1	11050.4	10059.5	10146.1	10204.5	9648.7
45°	16149.6	16133.5	16230.1	16163.7	15132.6	13507.3	11714.9	11354.5	11376.6	10681.8
47.5°	16264.4	16256.3	16697.4	17321.7	17182.7	16278.5	13839.6	12860.9	12782.3	11847.9
50°	15587.7	15571.6	16417.4	17587.5	18552.2	18606.6	16252.3	14558.6	14385.4	13054.2
52.5°	13426.8	13422.7	14812.3	16759.8	19033.5	20644.6	18636.8	16423.5	16133.5	14331.0
55°	10331.4	10405.9	11998.9	14300.8	18155.4	21625.4	20777.6	18493.8	18048.7	15615.9
57.5°	7318.6	7427.3	9002.2	11052.4	15432.6	21045.4	22225.6	20568.1	20088.8	16896.8
60°	3931.2	4027.8	5604.7	8051.6	11481.3	18882.5	22988.8	22368.6	21915.4	18113.2
62.5°	2342.2	2374.4	3026.9	5197.9	7765.7	14425.7	22664.6	23740.0	23367.5	19134.2
65°	1681.6	1687.7	2015.9	3173.9	4714.6	8764.6	20390.9	24396.6	24281.8	19903.5
67.5°	1415.8	1411.8	1548.7	2108.6	3212.2	4390.3	15628.0	23468.2	23955.5	20390.9
70°	1214.4	1220.4	1381.5	1544.7	2414.7	2485.2	7769.7	20433.2	21472.4	20519.8
72.5°	904.2	924.4	1073.4	1407.7	1822.6	1709.8	2682.5	15150.7	17029.7	19333.6
75°	638.4	648.5	755.2	1184.2	1359.4	1244.6	1369.5	7832.1	10240.8	14822.4
77.5°	491.4	509.5	572.0	827.7	1339.3	874.0	837.8	2710.7	4164.8	8953.9
80°	265.8	298.1	412.9	598.1	940.5	618.3	414.9	1079.5	1411.8	4186.9
82.5°	136.9	153.1	288.0	431.0	535.7	539.7	205.4	449.1	582.0	1292.9
85°	54.4	66.5	193.3	237.6	275.9	265.8	92.6	181.3	209.4	358.5
87.5°	12.1	20.1	70.5	54.4	52.4	56.4	22.2	42.3	40.3	42.3
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°
3613.0	0°	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0	3613.0
3637.1	2.5°	3635.1	3627.1	3604.9	3580.7	3552.5	3536.4	3526.4	3524.4	3510.3	3500.2
3717.7	5°	3695.5	3687.5	3645.2	3594.8	3540.5	3498.2	3457.9	3421.6	3369.3	3359.2
3834.5	7.5°	3816.4	3794.2	3725.7	3657.3	3554.6	3431.7	3282.7	3111.5	2958.4	2912.1
3989.6	10°	3965.4	3935.2	3848.6	3727.8	3500.2	3165.9	2805.4	2471.1	2205.2	2130.7
4172.8	12.5°	4134.6	4108.4	3993.6	3770.1	3272.6	2666.4	2114.6	1699.7	1442.0	1377.5
4368.2	15°	4336.0	4297.7	4138.6	3705.6	2865.8	2026.0	1452.0	1206.3	1113.7	1101.6
4591.7	17.5°	4549.4	4487.0	4267.5	3474.0	2318.0	1439.9	1121.8	1051.3	1011.0	998.9
4817.3	20°	4744.8	4664.2	4344.0	3123.6	1732.0	1121.8	1004.9	958.6	922.4	908.3
5042.8	22.5°	4940.1	4825.3	4344.0	2646.3	1299.0	994.9	922.4	880.1	837.8	819.7
5284.5	25°	5143.5	4990.5	4267.5	2114.6	1045.2	912.3	843.8	797.5	761.3	739.1
5514.1	27.5°	5340.9	5129.4	4092.3	1611.1	930.4	839.8	771.3	727.0	692.8	676.7
5763.8	30°	5528.2	5266.4	3846.6	1222.4	855.9	769.3	704.9	666.6	632.4	616.3
6088.1	32.5°	5782.0	5439.6	3584.8	1002.9	791.5	702.9	644.5	608.2	578.0	565.9
6509.0	35°	6134.4	5695.4	3359.2	984.8	737.1	648.5	590.1	555.8	525.6	515.6
7052.7	37.5°	6633.8	6108.2	3240.4	1105.6	692.8	600.1	545.8	509.5	481.3	473.3
7743.5	40°	7250.1	6668.1	3304.8	1226.5	662.6	557.9	505.5	469.2	445.1	435.0
8537.0	42.5°	7981.1	7358.8	3661.3	1319.1	642.4	521.6	467.2	427.0	410.8	406.8
9437.2	45°	8821.0	8118.1	4207.1	1417.8	610.2	487.4	429.0	398.8	386.7	384.7
10416.0	47.5°	9775.5	8951.9	4839.4	1540.6	578.0	455.1	398.8	378.6	368.5	364.5
11437.0	50°	10722.1	9791.7	5489.9	1609.1	551.8	424.9	374.6	358.5	350.4	348.4
12516.5	52.5°	11712.9	10655.6	6015.6	1544.7	529.7	400.8	354.4	342.4	334.3	332.3
13511.4	55°	12657.5	11354.5	6106.2	1311.1	485.4	376.6	332.3	326.3	316.2	316.2
14520.3	57.5°	13471.1	11704.9	5465.8	962.7	441.0	340.4	310.1	304.1	296.0	294.0
15430.6	60°	14218.2	11604.2	4219.2	648.5	392.7	304.1	281.9	277.9	269.9	259.8
16222.1	62.5°	14639.2	11161.1	2885.9	422.9	344.4	265.8	249.7	247.7	229.6	209.4
16808.1	65°	14798.3	10250.8	1800.4	308.1	288.0	227.6	215.5	211.5	185.3	163.1
17140.4	67.5°	14659.3	8752.5	908.3	243.7	227.6	189.3	177.2	177.2	159.1	139.0
17120.3	70°	14103.5	6561.3	382.6	195.3	175.2	145.0	145.0	153.1	134.9	112.8
16232.2	72.5°	12897.1	4414.5	203.4	149.0	130.9	102.7	118.8	124.9	106.7	84.6
13285.8	75°	10252.8	2692.6	141.0	110.8	82.6	72.5	90.6	94.7	72.5	56.4
9108.9	77.5°	7012.5	1546.7	94.7	70.5	52.4	42.3	62.4	58.4	38.3	26.2
3512.3	80°	3079.3	644.5	54.4	32.2	20.1	16.1	22.2	16.1	12.1	8.1
481.3	82.5°	360.5	151.0	20.1	12.1	8.1	4.0	2.0	0.0	0.0	0.0
147.0	85°	74.5	18.1	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
26.2	87.5°	14.1	4.0	2.0	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>
3613.0
3510.3
3355.2
2890.0
2102.5
1359.4
1089.5
992.9
900.2
809.6
731.1
676.7
618.3
565.9
515.6
471.3
433.0
406.8
382.6
364.5
348.4
332.3
314.2
292.0
257.8
205.4
<i>161.1</i>
136.9
110.8
84.6
54.4
28.2
8.1
0.0
0.0
0.0
0.0

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