

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: P954906

Luminaire Tested: **GALN-SB8A-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30198 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

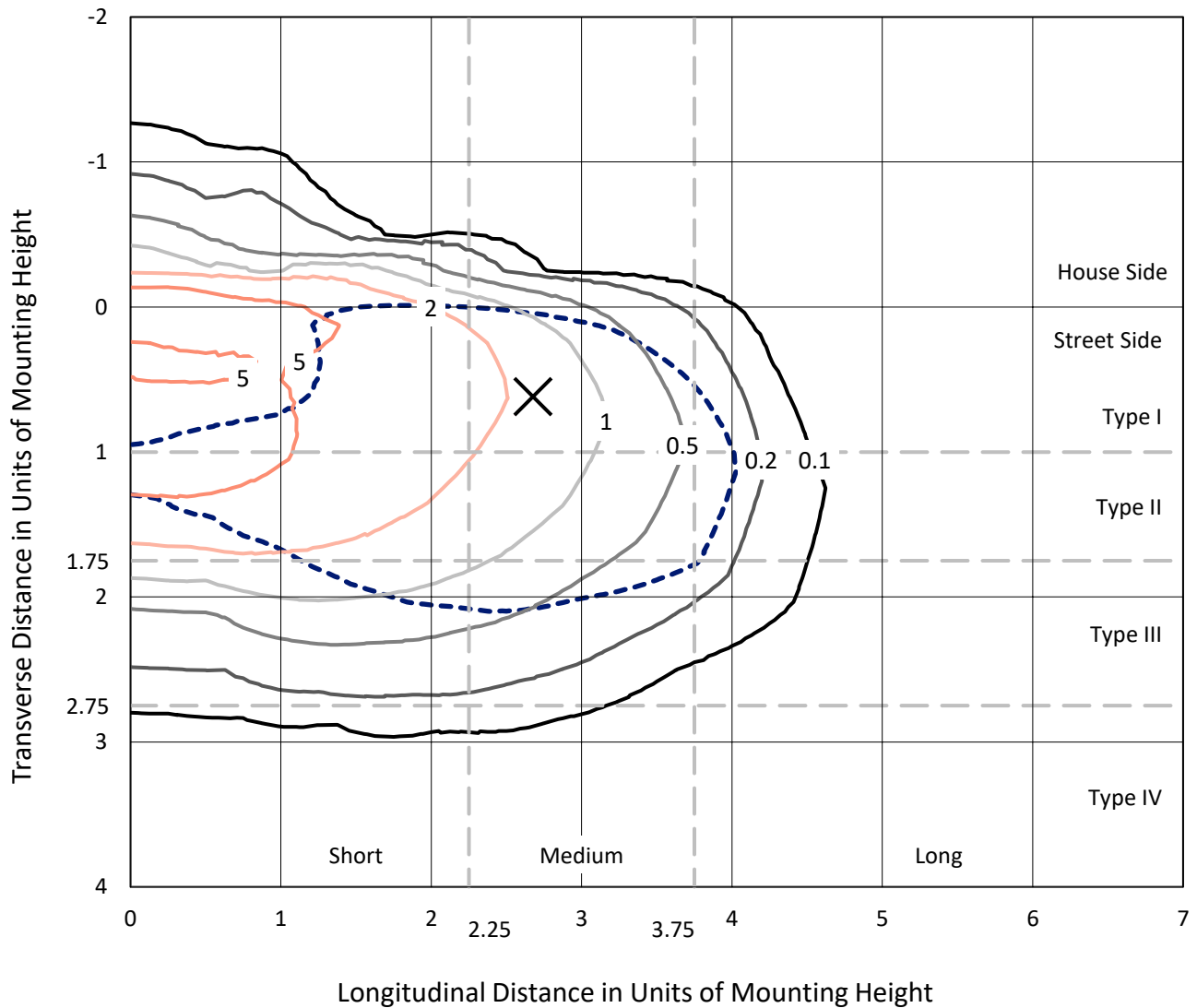
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954906
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Iso-Footcandle Lines of Horizontal Illumination

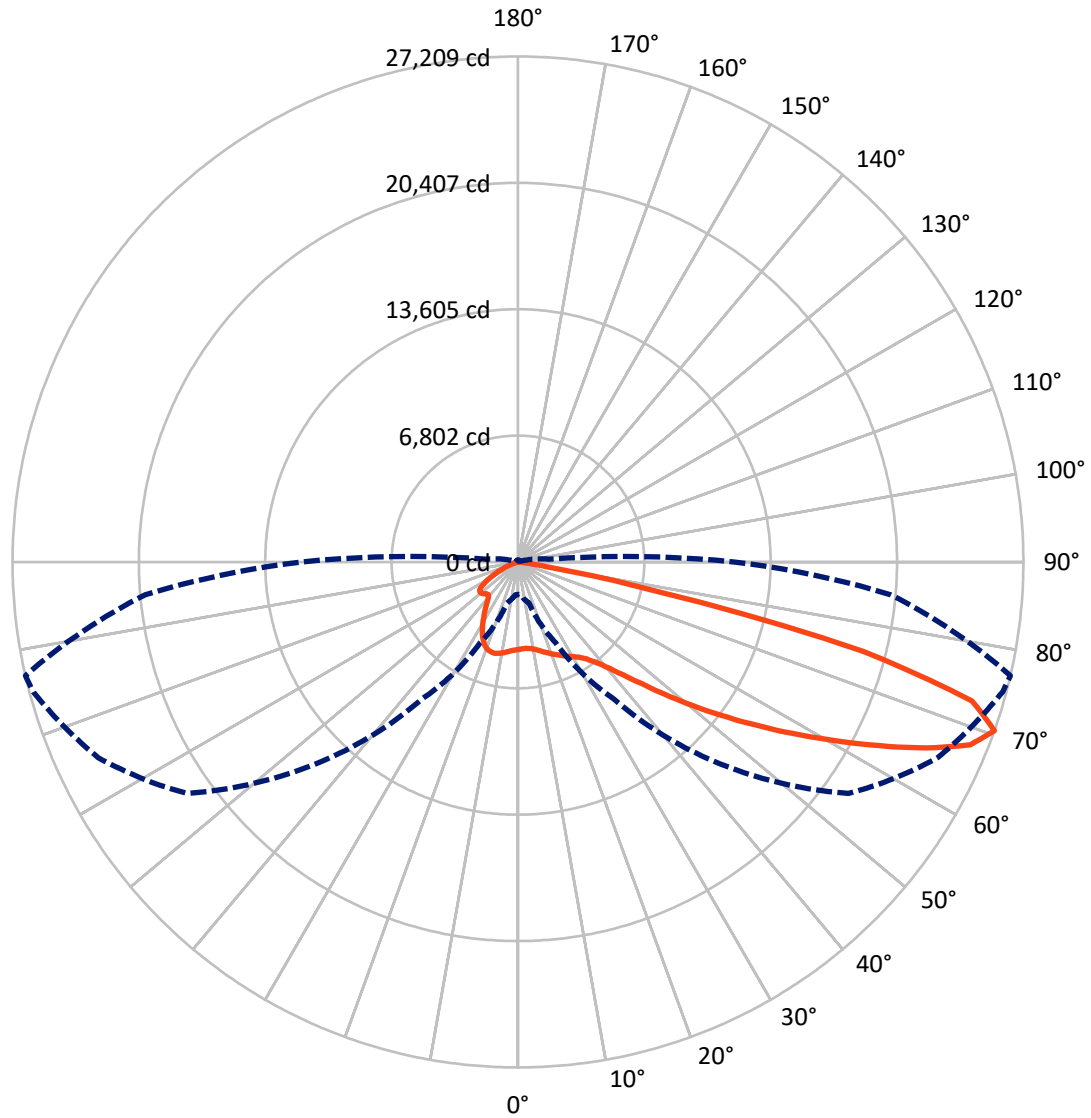
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P954906
CATALOG NUMBER: GALN-SB8A-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3183.3	0.0	3183.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27014.7	0.0	27014.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	30198.0	0.0	30198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.0	1.3
10°-20°	963.7	3.2
20°-30°	1490.6	4.9
30°-40°	2704.7	9.0
40°-50°	5105.5	16.9
50°-60°	7377.0	24.4
60°-70°	7852.6	26.0
70°-80°	4161.3	13.8
80°-90°	136.6	0.5
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°	30198.0	100.0
0°-180°	30198.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954906

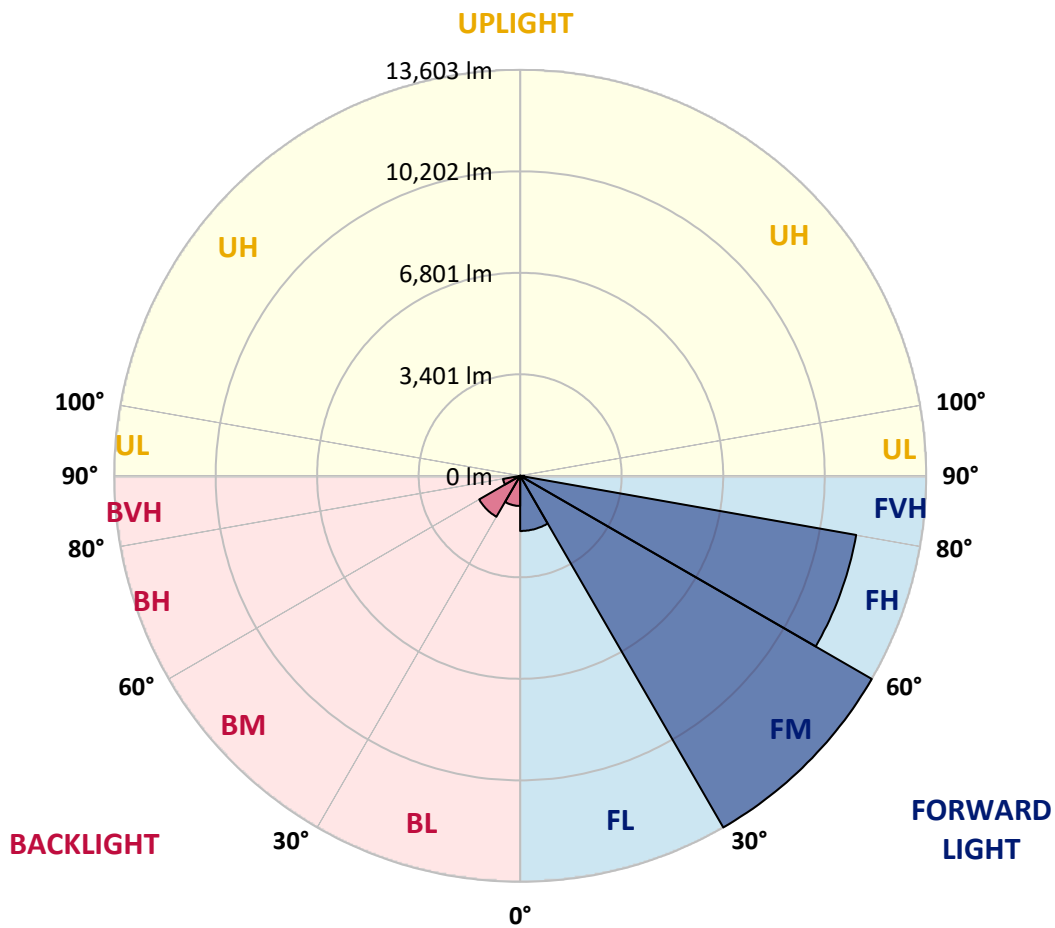
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.8	6.1			
FM (30°-60°)	13602.5	45.0			
FH (60°-80°)	11430.4	37.9			G4/12000
FVH (80°-90°)	133.0	0.4			G2/225
BL (0°-30°)	1011.4	3.3	B3/2500		
BM (30°-60°)	1584.7	5.2	B2/2500		
BH (60°-80°)	583.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



REPORT NUMBER: P954906
 CATALOG NUMBER: GALN-SB8A-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3
2.5°	4422.4	4462.4	4456.7	4483.4	4492.9	4531.1	4569.2	4620.7	4677.9	4676.0
5°	4172.6	4212.6	4222.1	4258.4	4304.1	4363.3	4441.5	4544.4	4651.2	4668.4
7.5°	3877.0	3918.9	3943.7	4016.2	4100.1	4222.1	4349.9	4500.6	4677.9	4702.7
10°	3581.4	3619.5	3651.9	3754.9	3888.4	4069.6	4277.4	4494.8	4733.2	4769.5
12.5°	3398.3	3434.5	3470.8	3560.4	3726.3	3947.5	4229.8	4521.5	4824.8	4876.3
15°	3333.5	3365.9	3394.5	3474.6	3629.1	3880.8	4220.2	4576.9	4941.1	5009.7
17.5°	3343.0	3360.2	3379.2	3440.3	3590.9	3850.3	4237.4	4672.2	5078.4	5139.4
20°	3398.3	3407.8	3409.8	3451.7	3585.2	3846.5	4271.7	4763.7	5208.1	5290.1
22.5°	3468.9	3472.7	3468.9	3497.5	3621.4	3875.1	4317.5	4874.3	5353.0	5429.3
25°	3798.8	3726.3	3634.8	3579.5	3682.5	3930.4	4386.1	5023.1	5511.3	5585.7
27.5°	4822.9	4615.0	4287.0	3918.9	3808.3	4010.5	4481.5	5173.7	5671.5	5738.2
30°	6485.8	6213.1	5656.2	4826.7	4212.6	4178.3	4605.5	5324.4	5841.2	5913.7
32.5°	8152.5	8085.8	7443.1	6295.1	5122.3	4552.1	4811.4	5528.5	6066.2	6123.4
35°	9838.3	9702.9	9176.6	8041.9	6523.9	5313.0	5154.7	5795.4	6361.8	6426.7
37.5°	11129.4	11047.4	10721.3	9786.8	8186.8	6487.7	5742.0	6209.3	6790.9	6863.4
40°	12269.8	12231.6	12121.0	11505.1	10046.2	8024.7	6655.5	6850.0	7385.9	7471.7
42.5°	13166.1	13255.7	13318.6	13147.0	11962.7	9779.2	7883.6	7750.1	8215.4	8303.2
45°	14083.4	14113.9	14367.5	14615.4	13866.0	11613.8	9268.1	8804.7	9247.1	9355.8
47.5°	14672.6	14794.7	15240.9	15677.6	15465.9	13433.1	10755.6	10050.0	10442.8	10646.9
50°	14716.5	14947.2	15561.3	16322.2	16631.1	15164.6	12372.8	11468.8	11886.5	12111.5
52.5°	13986.1	14344.6	15296.2	16409.9	17260.4	16631.1	14045.2	12887.6	13423.5	13717.2
55°	10723.2	11192.3	14298.8	15933.2	17285.2	17742.9	15673.8	14365.6	15136.0	15467.8
57.5°	9342.5	9579.0	11241.9	15105.5	16825.6	18191.1	17146.0	15773.0	16999.2	17411.1
60°	7773.0	8083.9	9428.3	13751.5	16202.1	18234.9	18446.6	17588.5	19018.7	19482.1
62.5°	5282.4	5620.0	6956.8	11425.0	15349.6	18214.0	19512.6	19457.3	21263.3	21761.0
65°	3272.4	3484.1	4365.2	9329.1	14157.7	18236.8	20628.2	21726.7	23631.8	24137.2
67.5°	2585.9	2683.2	3142.8	7162.8	12103.9	17721.9	21741.9	23860.7	25861.1	26261.6
70°	1737.3	1796.4	2286.5	4801.9	9005.0	15345.8	21721.0	24932.4	27009.1	27209.4
72.5°	915.4	961.1	1336.8	2223.6	5438.8	10908.2	18309.3	23650.9	25866.8	25565.5
75°	457.7	534.0	900.1	1129.0	2322.8	6083.4	11369.7	18646.9	20359.4	19192.3
77.5°	347.1	419.5	743.7	743.7	808.6	2048.1	4815.2	10170.1	9380.6	7811.2
80°	221.2	286.1	650.3	562.6	337.5	520.6	1254.8	2849.1	1992.8	1516.1
82.5°	129.7	186.9	541.6	371.9	188.8	192.6	354.7	606.4	516.8	402.4
85°	51.5	122.0	371.9	146.8	74.4	47.7	106.8	129.7	106.8	80.1
87.5°	0.0	28.6	64.8	0.0	5.7	3.8	7.6	9.5	9.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954906
 CATALOG NUMBER: GALN-SB8A-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4710.3	0°	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3	4710.3
4714.2	2.5°	4731.3	4735.1	4746.6	4748.5	4721.8	4687.5	4674.1	4668.4	4645.5	4643.6
4744.7	5°	4788.5	4805.7	4788.5	4738.9	4620.7	4454.8	4328.9	4226.0	4132.5	4103.9
4849.6	7.5°	4903.0	4920.1	4868.6	4674.1	4376.6	4046.7	3749.2	3539.4	3350.6	3280.1
4977.3	10°	5067.0	5089.8	4927.7	4534.9	4008.6	3478.4	2975.0	2620.2	2343.7	2231.2
5150.9	12.5°	5272.9	5282.4	4960.2	4323.2	3529.9	2772.8	2059.6	1680.1	1434.1	1342.5
5360.6	15°	5499.8	5486.5	4964.0	4035.3	2877.7	1960.4	1344.5	1104.2	1005.0	974.5
5570.4	17.5°	5738.2	5682.9	4887.7	3619.5	2162.6	1340.6	997.4	940.2	923.0	915.4
5778.3	20°	5972.8	5848.8	4748.5	3076.0	1552.3	1001.2	905.8	888.7	879.1	875.3
5988.0	22.5°	6186.4	5974.7	4510.1	2444.8	1127.0	884.9	856.3	841.0	823.8	816.2
6192.1	25°	6394.2	6047.2	4174.5	1855.5	902.0	827.6	804.8	776.2	753.3	743.7
6411.4	27.5°	6596.4	6092.9	3754.9	1373.1	804.8	774.3	732.3	692.2	675.1	671.3
6646.0	30°	6811.9	6108.2	3278.2	1024.1	745.6	707.5	646.5	600.7	591.2	593.1
6962.5	32.5°	7075.0	6131.1	2797.6	839.1	696.1	627.4	554.9	507.3	499.6	507.3
7424.0	35°	7389.7	6176.8	2334.2	772.3	652.2	545.4	467.2	427.2	419.5	425.3
8015.2	37.5°	7816.9	6251.2	1901.3	759.0	616.0	476.8	392.8	360.4	360.4	362.3
8739.9	40°	8385.2	6449.5	1514.2	749.5	596.9	425.3	331.8	318.5	324.2	328.0
9662.9	42.5°	9077.4	6871.0	1252.9	738.0	575.9	402.4	301.3	295.6	305.1	308.9
10768.9	45°	9853.6	7405.0	1161.4	718.9	556.9	417.6	288.0	280.3	291.8	293.7
12008.5	47.5°	10656.4	7927.5	1149.9	698.0	537.8	440.5	284.1	267.0	280.3	282.2
13332.0	50°	11468.8	8268.8	1161.4	665.6	507.3	440.5	286.1	253.6	265.1	270.8
14705.0	52.5°	12286.9	8425.2	1153.7	595.0	453.9	413.8	286.1	242.2	253.6	257.4
16188.7	55°	13080.3	8394.7	1037.4	490.1	385.2	366.1	278.4	232.7	240.3	242.2
17590.4	57.5°	13707.7	7969.4	821.9	381.4	312.8	305.1	253.6	221.2	226.9	225.0
18875.7	60°	14035.7	7035.0	587.4	293.7	246.0	240.3	223.1	206.0	209.8	200.2
19964.6	62.5°	14039.5	5799.3	392.8	232.7	196.4	190.7	190.7	185.0	181.2	162.1
20807.5	65°	13740.1	4428.1	261.3	185.0	158.3	148.7	160.2	158.3	144.9	118.2
21065.0	67.5°	13061.2	2902.5	198.3	144.9	122.0	116.3	127.8	133.5	124.0	99.2
20126.7	70°	11665.2	1689.6	164.0	112.5	91.5	85.8	103.0	114.4	103.0	80.1
17203.2	72.5°	9689.6	911.6	133.5	83.9	62.9	57.2	82.0	93.4	82.0	59.1
11037.8	75°	6287.4	488.2	103.0	55.3	32.4	36.2	61.0	68.7	57.2	38.1
3240.0	77.5°	2111.1	215.5	64.8	26.7	15.3	15.3	36.2	42.0	26.7	13.3
589.3	80°	471.0	89.6	26.7	11.4	5.7	5.7	7.6	7.6	3.8	0.0
181.2	82.5°	154.5	36.2	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
45.8	85°	59.1	13.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.3	87.5°	22.9	1.9	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

180°
4710.3
4647.4
4086.7
3251.5
2183.5
1313.9
974.5
913.5
871.5
814.3
739.9
667.5
593.1
505.4
423.4
360.4
328.0
308.9
295.6
284.1
272.7
257.4
242.2
225.0
198.3
156.4
114.4
97.3
76.3
57.2
34.3
11.4
0.0
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0.0
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