

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: P955009

Luminaire Tested: **GALN-SB8A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955009
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-SB8A-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA 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: 24909 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

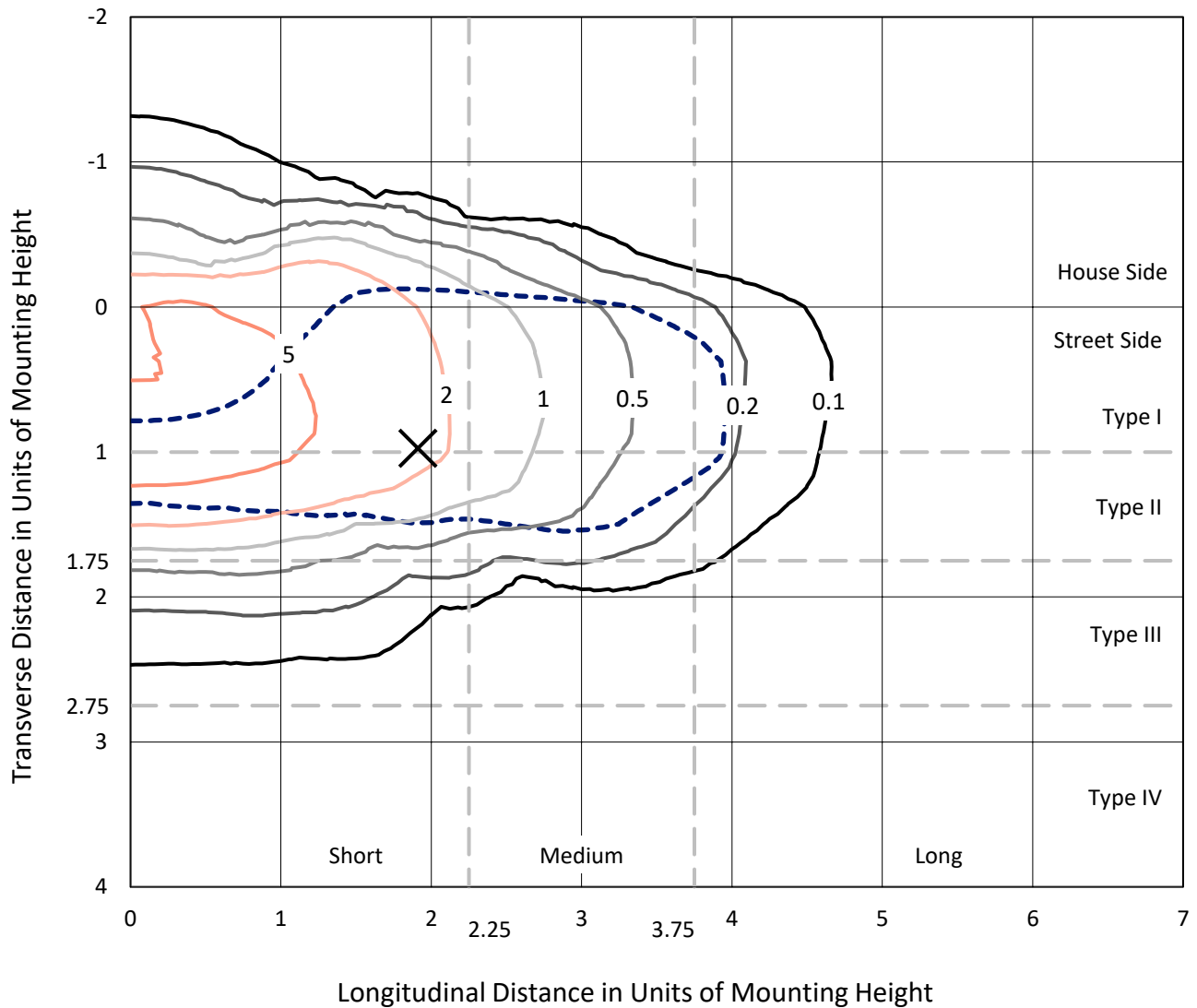
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

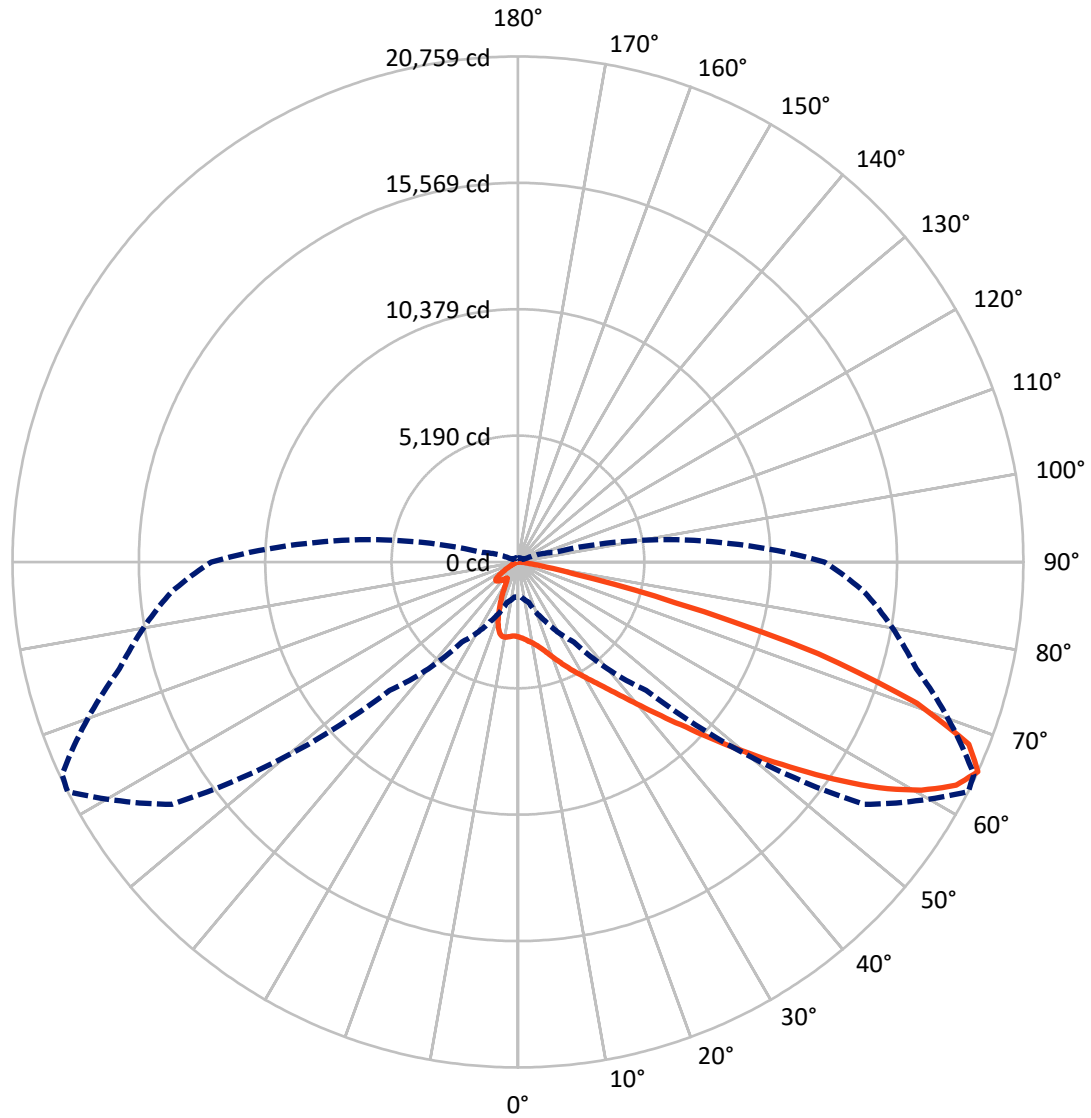
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	3661.4	0.0	3661.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21247.6	0.0	21247.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	24909.0	0.0	24909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	1.2
10°-20°	803.7	3.2
20°-30°	1399.4	5.6
30°-40°	2522.3	10.1
40°-50°	5002.5	20.1
50°-60°	6814.2	27.4
60°-70°	5439.1	21.8
70°-80°	2461.3	9.9
80°-90°	176.9	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°	24909.0	100.0
0°-180°	24909.0	100.0

Coefficient of Utilization



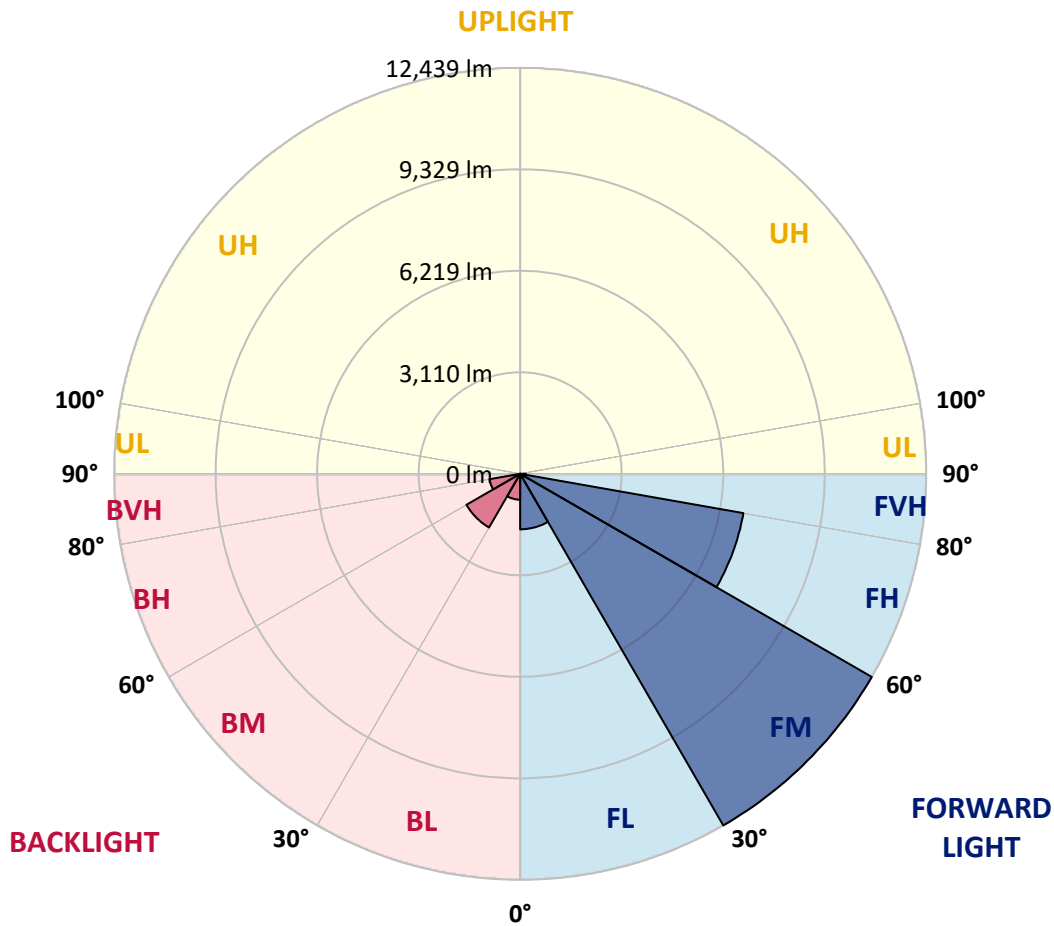
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.3	6.8			
FM (30°-60°)	12438.9	49.9			
FH (60°-80°)	6944.5	27.9			G3/7500
FVH (80°-90°)	163.8	0.7			G2/225
BL (0°-30°)	792.4	3.2	B2/1000		
BM (30°-60°)	1900.1	7.6	B2/2500		
BH (60°-80°)	955.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2
2.5°	3146.2	3137.6	3149.6	3144.5	3141.1	3134.2	3130.8	3127.4	3120.5	3115.4
5°	3154.8	3149.6	3161.6	3171.9	3182.2	3192.5	3197.6	3204.5	3197.6	3183.9
7.5°	3082.8	3079.4	3105.1	3135.9	3182.2	3221.6	3264.5	3288.4	3290.2	3285.0
10°	3077.7	3069.1	3094.8	3132.5	3192.5	3262.7	3338.1	3389.5	3396.4	3418.7
12.5°	3158.2	3149.6	3185.6	3226.8	3288.4	3362.1	3454.7	3526.6	3536.9	3567.8
15°	3293.6	3281.6	3322.7	3375.8	3454.7	3538.6	3636.3	3701.4	3710.0	3747.7
17.5°	3451.2	3439.2	3487.2	3543.8	3629.5	3744.3	3857.4	3929.3	3939.6	3963.6
20°	3653.4	3638.0	3675.7	3727.1	3818.0	3955.0	4090.4	4193.2	4191.5	4191.5
22.5°	3888.2	3864.2	3896.8	3937.9	4023.6	4189.8	4369.7	4491.4	4491.4	4443.4
25°	4140.1	4116.1	4152.1	4189.8	4265.2	4453.7	4664.5	4815.3	4822.1	4739.9
27.5°	4455.4	4424.6	4452.0	4496.5	4541.1	4733.0	4983.2	5158.0	5161.4	5034.6
30°	5062.0	4974.7	4889.0	4841.0	4861.6	5051.8	5319.1	5512.7	5529.9	5355.1
32.5°	6172.5	6155.3	5853.7	5459.6	5254.0	5394.5	5694.4	5927.4	5937.7	5713.2
35°	7898.1	7877.5	7392.6	6642.0	5972.0	5853.7	6150.2	6426.1	6419.2	6165.6
37.5°	9957.9	9939.0	9299.8	8295.7	7210.9	6547.8	6738.0	7027.6	7070.4	6738.0
40°	11717.8	11647.5	11243.1	10274.9	8856.0	7699.3	7574.2	7766.1	7810.7	7416.6
42.5°	13051.0	12991.0	12785.3	12180.4	10847.2	9402.7	8559.6	8633.2	8682.9	8210.0
45°	13741.5	13727.8	13810.1	13753.5	12876.2	11493.3	9968.2	9661.4	9680.3	9089.1
47.5°	13839.2	13832.4	14207.7	14738.9	14620.6	13851.2	11776.0	10943.2	10876.4	10081.2
50°	13263.4	13249.7	13969.5	14965.1	15785.9	15832.2	13828.9	12387.8	12240.4	11107.7
52.5°	11424.7	11421.3	12603.7	14260.8	16195.5	17566.4	15857.9	13974.6	13727.8	12194.1
55°	8790.9	8854.3	10209.8	12168.4	15448.3	18400.9	17679.5	15736.2	15357.5	13287.4
57.5°	6227.3	6319.8	7659.9	9404.4	13131.5	17907.4	18911.6	17501.2	17093.4	14377.3
60°	3345.0	3427.2	4769.0	6851.1	9769.4	16066.9	19561.0	19033.2	18647.7	15412.3
62.5°	1992.9	2020.4	2575.6	4422.9	6607.7	12274.7	19285.1	20200.2	19883.2	16281.1
65°	1430.9	1436.0	1715.3	2700.7	4011.6	7457.7	17350.4	20758.8	20661.2	16935.7
67.5°	1204.7	1201.3	1317.8	1794.2	2733.2	3735.7	13297.7	19968.9	20383.6	17350.4
70°	1033.3	1038.5	1175.5	1314.3	2054.6	2114.6	6611.2	17386.4	18270.7	17460.1
72.5°	769.4	786.6	913.4	1197.8	1550.8	1454.9	2282.5	12891.6	14490.4	16450.8
75°	543.2	551.8	642.6	1007.6	1156.7	1059.0	1165.3	6664.3	8713.8	12612.3
77.5°	418.1	433.5	486.7	704.3	1139.6	743.7	712.9	2306.5	3543.8	7618.8
80°	226.2	253.6	351.3	508.9	800.3	526.1	353.0	918.5	1201.3	3562.6
82.5°	116.5	130.2	245.0	366.7	455.8	459.3	174.8	382.1	495.2	1100.1
85°	46.3	56.5	164.5	202.2	234.8	226.2	78.8	154.2	178.2	305.0
87.5°	10.3	17.1	60.0	46.3	44.6	48.0	18.8	36.0	34.3	36.0
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°
3074.2	0°	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2	3074.2
3094.8	2.5°	3093.1	3086.2	3067.4	3046.8	3022.8	3009.1	3000.6	2998.8	2986.8	2978.3
3163.3	5°	3144.5	3137.6	3101.7	3058.8	3012.6	2976.6	2942.3	2911.4	2866.9	2858.3
3262.7	7.5°	3247.3	3228.5	3170.2	3111.9	3024.5	2920.0	2793.2	2647.5	2517.3	2477.9
3394.7	10°	3374.1	3348.4	3274.7	3171.9	2978.3	2693.8	2387.1	2102.6	1876.4	1813.0
3550.6	12.5°	3518.1	3495.8	3398.1	3207.9	2784.6	2268.8	1799.3	1446.3	1227.0	1172.1
3716.9	15°	3689.4	3656.9	3521.5	3153.1	2438.5	1723.9	1235.5	1026.5	947.6	937.4
3907.1	17.5°	3871.1	3818.0	3631.2	2956.0	1972.4	1225.2	954.5	894.5	860.2	850.0
4099.0	20°	4037.3	3968.8	3696.3	2657.8	1473.7	954.5	855.1	815.7	784.8	772.8
4290.9	22.5°	4203.5	4105.8	3696.3	2251.7	1105.3	846.5	784.8	748.9	712.9	697.4
4496.5	25°	4376.6	4246.4	3631.2	1799.3	889.4	776.3	718.0	678.6	647.7	628.9
4691.9	27.5°	4544.5	4364.6	3482.1	1370.9	791.7	714.6	656.3	618.6	589.5	575.8
4904.4	30°	4703.9	4481.1	3273.0	1040.2	728.3	654.6	599.8	567.2	538.1	524.4
5180.3	32.5°	4919.8	4628.5	3050.3	853.4	673.5	598.1	548.4	517.5	491.8	481.5
5538.4	35°	5219.7	4846.1	2858.3	838.0	627.2	551.8	502.1	473.0	447.3	438.7
6001.1	37.5°	5644.7	5197.4	2757.2	940.8	589.5	510.7	464.4	433.5	409.6	402.7
6588.9	40°	6169.0	5673.8	2812.1	1043.6	563.8	474.7	430.1	399.3	378.7	370.1
7264.1	42.5°	6791.1	6261.6	3115.4	1122.4	546.6	443.8	397.6	363.3	349.6	346.2
8030.0	45°	7505.7	6907.6	3579.8	1206.4	519.2	414.7	365.0	339.3	329.0	327.3
8862.9	47.5°	8317.9	7617.1	4117.8	1310.9	491.8	387.3	339.3	322.2	313.6	310.2
9731.7	50°	9123.3	8331.6	4671.3	1369.2	469.5	361.6	318.7	305.0	298.2	296.5
10650.2	52.5°	9966.4	9066.8	5118.6	1314.3	450.7	341.0	301.6	291.3	284.5	282.7
11496.7	55°	10770.1	9661.4	5195.7	1115.6	413.0	320.4	282.7	277.6	269.0	269.0
12355.2	57.5°	11462.4	9959.6	4650.8	819.1	375.3	289.6	263.9	258.8	251.9	250.2
13129.8	60°	12098.2	9873.9	3590.0	551.8	334.2	258.8	239.9	236.5	229.6	221.1
13803.2	62.5°	12456.3	9496.9	2455.6	359.9	293.0	226.2	212.5	210.8	195.4	178.2
14301.9	65°	12591.7	8722.3	1532.0	262.2	245.0	193.6	183.4	179.9	157.7	138.8
14584.7	67.5°	12473.5	7447.4	772.8	207.3	193.6	161.1	150.8	150.8	135.4	118.2
14567.5	70°	12000.5	5583.0	325.6	166.2	149.1	123.4	123.4	130.2	114.8	96.0
13811.8	72.5°	10974.0	3756.3	173.1	126.8	111.4	87.4	101.1	106.2	90.8	72.0
11304.8	75°	8724.1	2291.1	120.0	94.2	70.3	61.7	77.1	80.5	61.7	48.0
7750.7	77.5°	5966.8	1316.1	80.5	60.0	44.6	36.0	53.1	49.7	32.6	22.3
2988.6	80°	2620.1	548.4	46.3	27.4	17.1	13.7	18.8	13.7	10.3	6.9
409.6	82.5°	306.7	128.5	17.1	10.3	6.9	3.4	1.7	0.0	0.0	0.0
125.1	85°	63.4	15.4	8.6	3.4	1.7	0.0	0.0	0.0	0.0	0.0
22.3	87.5°	12.0	3.4	1.7	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°
3074.2
2986.8
2854.9
2459.1
1789.0
1156.7
927.1
844.8
766.0
688.9
622.0
575.8
526.1
481.5
438.7
401.0
368.4
346.2
325.6
310.2
296.5
282.7
267.3
248.5
219.3
174.8
137.1
116.5
94.2
72.0
46.3
24.0
6.9
0.0
0.0
0.0
0.0

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