

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: P955513

Luminaire Tested: **GALN-SB8B-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955513
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-SB8B-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 25216 lumens
Efficiency: N/A
Efficacy: 86.1 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

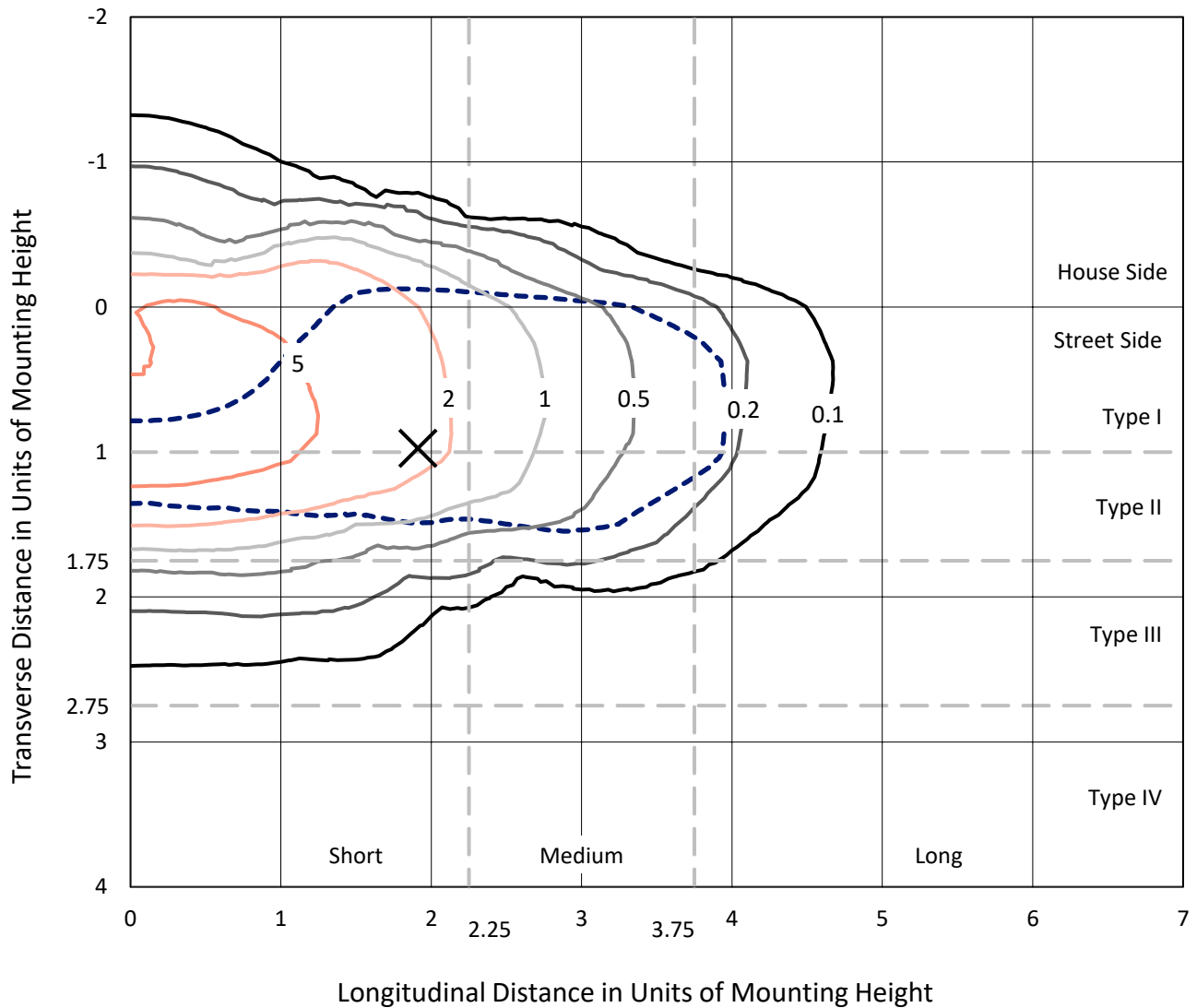
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

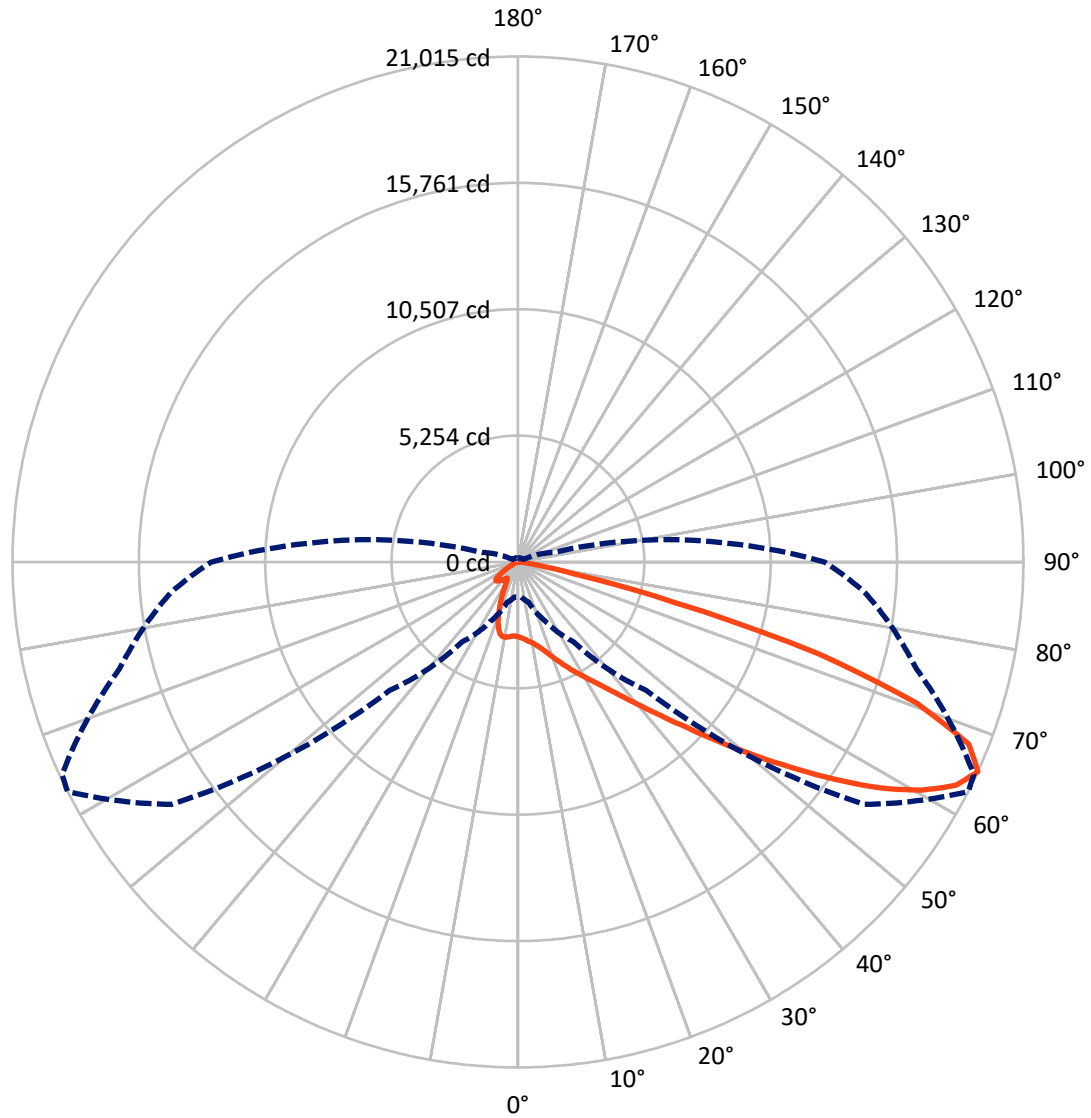
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3706.6	0.0	3706.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21509.4	0.0	21509.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	25216.0	0.0	25216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	1.2
10°-20°	813.6	3.2
20°-30°	1416.7	5.6
30°-40°	2553.4	10.1
40°-50°	5064.1	20.1
50°-60°	6898.2	27.4
60°-70°	5506.1	21.8
70°-80°	2491.6	9.9
80°-90°	179.1	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°	25216.0	100.0
0°-180°	25216.0	100.0

Coefficient of Utilization



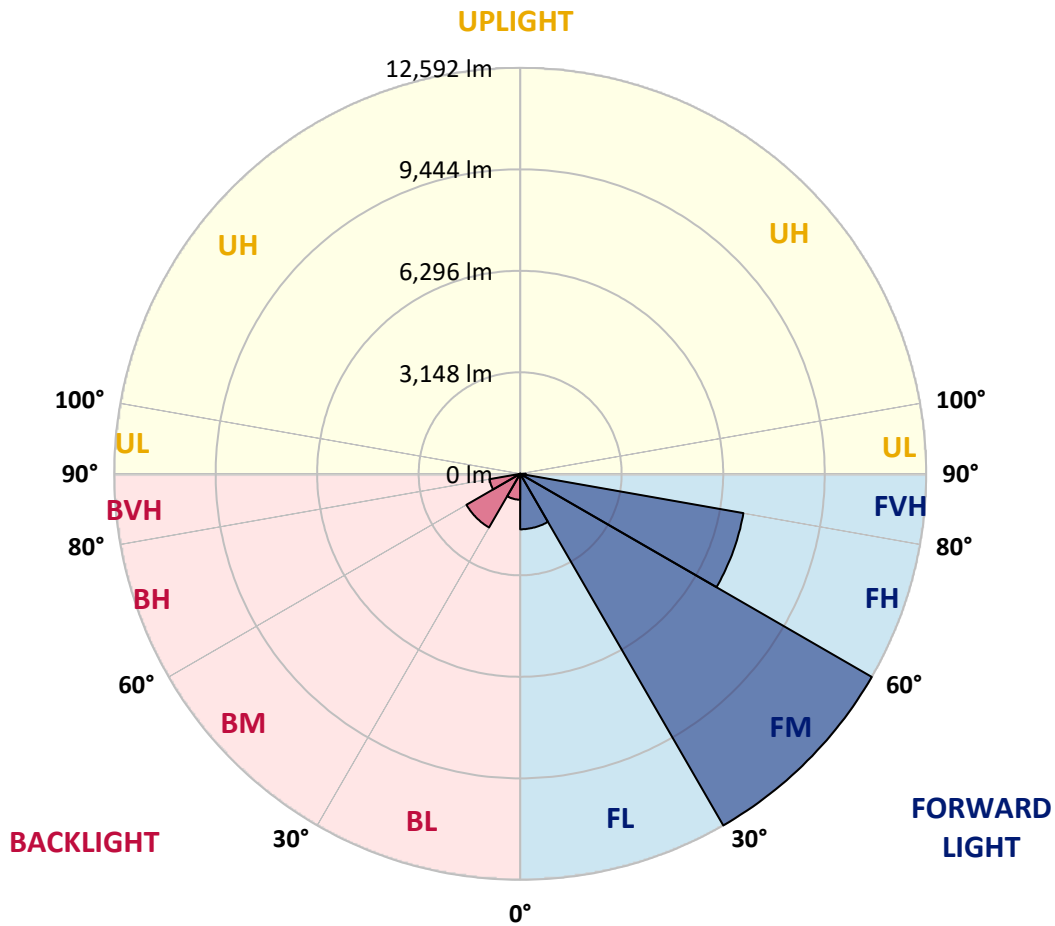
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1721.3	6.8			
FM (30°-60°)	12592.2	49.9			
FH (60°-80°)	7030.1	27.9			G3/7500
FVH (80°-90°)	165.8	0.7			G2/225
BL (0°-30°)	802.2	3.2	B2/1000		
BM (30°-60°)	1923.5	7.6	B2/2500		
BH (60°-80°)	967.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.3	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°	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1
2.5°	3185.0	3176.3	3188.5	3183.3	3179.8	3172.8	3169.4	3165.9	3159.0	3153.8
5°	3193.7	3188.5	3200.6	3211.0	3221.4	3231.8	3237.0	3244.0	3237.0	3223.2
7.5°	3120.8	3117.3	3143.4	3174.6	3221.4	3261.3	3304.7	3329.0	3330.7	3325.5
10°	3115.6	3106.9	3132.9	3171.1	3231.8	3303.0	3379.3	3431.3	3438.3	3460.8
12.5°	3197.1	3188.5	3224.9	3266.5	3329.0	3403.6	3497.2	3570.1	3580.5	3611.7
15°	3334.2	3322.0	3363.7	3417.4	3497.2	3582.2	3681.1	3747.0	3755.7	3793.9
17.5°	3493.8	3481.6	3530.2	3587.5	3674.2	3790.4	3904.9	3977.8	3988.2	4012.5
20°	3698.5	3682.9	3721.0	3773.1	3865.0	4003.8	4140.8	4244.9	4243.2	4243.2
22.5°	3936.1	3911.8	3944.8	3986.4	4073.2	4241.4	4423.6	4546.8	4546.8	4498.2
25°	4191.1	4166.9	4203.3	4241.4	4317.8	4508.6	4722.0	4874.6	4881.6	4798.3
27.5°	4510.3	4479.1	4506.9	4552.0	4597.1	4791.4	5044.6	5221.6	5225.0	5096.7
30°	5124.4	5036.0	4949.2	4900.7	4921.5	5114.0	5384.6	5580.7	5598.0	5421.1
32.5°	6248.5	6231.2	5925.9	5526.9	5318.7	5461.0	5764.6	6000.5	6010.9	5783.6
35°	7995.4	7974.6	7483.7	6723.9	6045.6	5925.9	6226.0	6505.3	6498.4	6241.6
37.5°	10080.6	10061.5	9414.5	8397.9	7299.8	6628.5	6821.0	7114.2	7157.6	6821.0
40°	11862.2	11791.1	11381.7	10401.5	8965.2	7794.2	7667.6	7861.9	7907.0	7508.0
42.5°	13211.8	13151.1	12942.9	12330.6	10980.9	9518.5	8665.0	8739.6	8789.9	8311.2
45°	13910.9	13897.0	13980.3	13923.1	13034.9	11634.9	10091.0	9780.5	9799.6	9201.1
47.5°	14009.8	14002.9	14382.8	14920.5	14800.8	14021.9	11921.2	11078.1	11010.4	10205.5
50°	13426.9	13413.0	14141.6	15149.5	15980.5	16027.3	13999.4	12540.5	12391.3	11244.6
52.5°	11565.5	11562.1	12759.0	14436.5	16395.1	17782.9	16053.3	14146.8	13897.0	12344.4
55°	8899.2	8963.4	10335.6	12318.4	15638.7	18627.7	17897.4	15930.2	15546.8	13451.2
57.5°	6304.1	6397.7	7754.3	9520.3	13293.3	18128.1	19144.6	17716.9	17304.1	14554.5
60°	3386.2	3469.5	4827.8	6935.5	9889.8	16265.0	19802.1	19267.8	18877.5	15602.3
62.5°	2017.5	2045.3	2607.3	4477.4	6689.2	12426.0	19522.8	20449.2	20128.2	16481.8
65°	1448.5	1453.7	1736.5	2734.0	4061.0	7549.6	17564.3	21014.7	20915.8	17144.5
67.5°	1219.5	1216.1	1334.0	1816.3	2766.9	3781.7	13461.6	20215.0	20634.8	17564.3
70°	1046.1	1051.3	1190.0	1330.5	2080.0	2140.7	6692.6	17600.7	18495.8	17675.3
72.5°	778.9	796.2	924.6	1212.6	1569.9	1472.8	2310.7	13050.5	14669.0	16653.5
75°	549.9	558.6	650.5	1020.0	1171.0	1072.1	1179.6	6746.4	8821.2	12767.7
77.5°	423.3	438.9	492.7	713.0	1153.6	752.9	721.7	2335.0	3587.5	7712.7
80°	229.0	256.7	355.6	515.2	810.1	532.6	357.4	929.8	1216.1	3606.5
82.5°	118.0	131.8	248.1	371.2	461.4	464.9	176.9	386.8	501.3	1113.7
85°	46.8	57.2	166.5	204.7	237.7	229.0	79.8	156.1	180.4	308.8
87.5°	10.4	17.3	60.7	46.8	45.1	48.6	19.1	36.4	34.7	36.4
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°
3112.1	0°	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1	3112.1
3132.9	2.5°	3131.2	3124.3	3105.2	3084.4	3060.1	3046.2	3037.5	3035.8	3023.7	3015.0
3202.3	5°	3183.3	3176.3	3139.9	3096.5	3049.7	3013.3	2978.6	2947.3	2902.2	2893.6
3303.0	7.5°	3287.3	3268.3	3209.3	3150.3	3061.8	2956.0	2827.6	2680.2	2548.3	2508.4
3436.5	10°	3415.7	3389.7	3315.1	3211.0	3015.0	2727.0	2416.5	2128.5	1899.5	1835.4
3594.4	12.5°	3561.4	3538.9	3440.0	3247.4	2819.0	2296.8	1821.5	1464.1	1242.1	1186.6
3762.7	15°	3734.9	3701.9	3564.9	3191.9	2468.5	1745.2	1250.8	1039.1	959.3	948.9
3955.2	17.5°	3918.8	3865.0	3675.9	2992.4	1996.7	1240.3	966.3	905.5	870.8	860.4
4149.5	20°	4087.1	4017.7	3741.8	2690.6	1491.9	966.3	865.6	825.7	794.5	782.4
4343.8	22.5°	4255.3	4156.4	3741.8	2279.5	1118.9	857.0	794.5	758.1	721.7	706.0
4552.0	25°	4430.5	4298.7	3675.9	1821.5	900.3	785.8	726.9	687.0	655.7	636.7
4749.7	27.5°	4600.5	4418.4	3525.0	1387.8	801.5	723.4	664.4	626.2	596.8	582.9
4964.8	30°	4761.9	4536.4	3313.4	1053.0	737.3	662.7	607.2	574.2	544.7	530.8
5244.1	32.5°	4980.5	4685.5	3087.8	863.9	681.8	605.4	555.1	523.9	497.9	487.5
5606.7	35°	5284.0	4905.9	2893.6	848.3	634.9	558.6	508.3	478.8	452.8	444.1
6075.1	37.5°	5714.2	5261.5	2791.2	952.4	596.8	517.0	470.1	438.9	414.6	407.7
6670.1	40°	6245.1	5743.7	2846.7	1056.5	570.7	480.5	435.4	404.2	383.4	374.7
7353.6	42.5°	6874.8	6338.8	3153.8	1136.3	553.4	449.3	402.5	367.8	353.9	350.4
8129.0	45°	7598.2	6992.8	3623.9	1221.3	525.6	419.8	369.5	343.5	333.1	331.3
8972.1	47.5°	8420.4	7710.9	4168.6	1327.1	497.9	392.1	343.5	326.1	317.5	314.0
9851.6	50°	9235.8	8434.3	4728.9	1386.1	475.3	366.0	322.7	308.8	301.8	300.1
10781.4	52.5°	10089.3	9178.5	5181.7	1330.5	456.2	345.2	305.3	294.9	288.0	286.2
11638.4	55°	10902.9	9780.5	5259.7	1129.3	418.1	324.4	286.2	281.0	272.4	272.4
12507.5	57.5°	11603.7	10082.3	4708.1	829.2	379.9	293.2	267.2	261.9	255.0	253.3
13291.6	60°	12247.3	9995.6	3634.3	558.6	338.3	261.9	242.9	239.4	232.5	223.8
13973.4	62.5°	12609.9	9614.0	2485.9	364.3	296.6	229.0	215.1	213.4	197.8	180.4
14478.2	65°	12746.9	8829.8	1550.9	265.4	248.1	196.0	185.6	182.1	159.6	140.5
14764.4	67.5°	12627.2	7539.2	782.4	209.9	196.0	163.1	152.7	152.7	137.0	119.7
14747.1	70°	12148.4	5651.8	329.6	168.3	150.9	124.9	124.9	131.8	116.2	97.1
13982.0	72.5°	11109.3	3802.6	175.2	128.4	112.8	88.5	102.3	107.6	91.9	72.9
11444.1	75°	8831.6	2319.4	121.4	95.4	71.1	62.5	78.1	81.5	62.5	48.6
7846.2	77.5°	6040.4	1332.3	81.5	60.7	45.1	36.4	53.8	50.3	33.0	22.6
3025.4	80°	2652.4	555.1	46.8	27.8	17.3	13.9	19.1	13.9	10.4	6.9
414.6	82.5°	310.5	130.1	17.3	10.4	6.9	3.5	1.7	0.0	0.0	0.0
126.6	85°	64.2	15.6	8.7	3.5	1.7	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	12.1	3.5	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°
3112.1
3023.7
2890.1
2489.4
1811.1
1171.0
938.5
855.2
775.4
697.4
629.7
582.9
532.6
487.5
444.1
405.9
373.0
350.4
329.6
314.0
300.1
286.2
270.6
251.5
222.0
176.9
138.8
118.0
95.4
72.9
46.8
24.3
6.9
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