

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: P955492

Luminaire Tested: **GALN-SB8B-935-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955492
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-935-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 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: 24208 lumens
Efficiency: N/A
Efficacy: 82.7 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

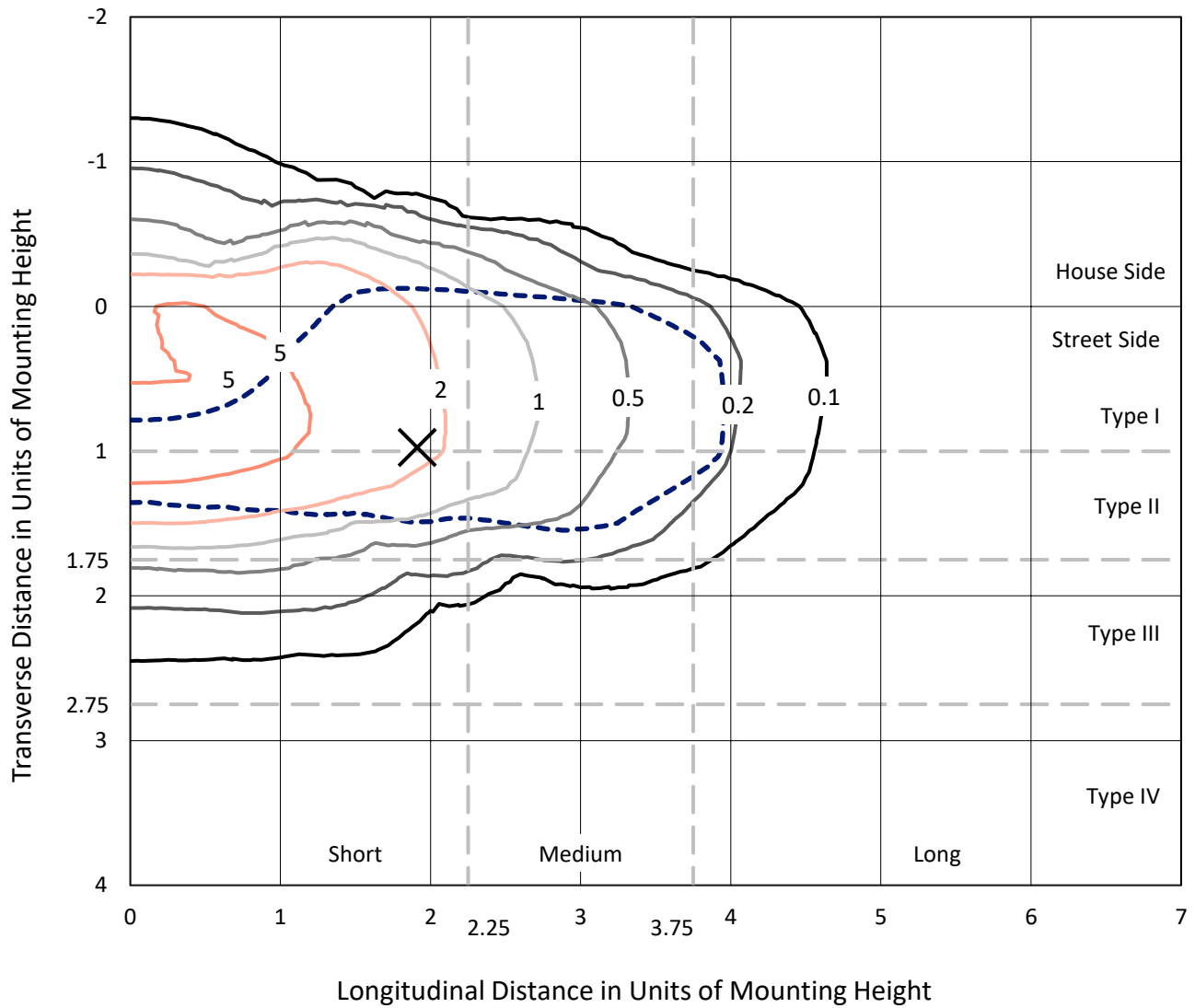
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

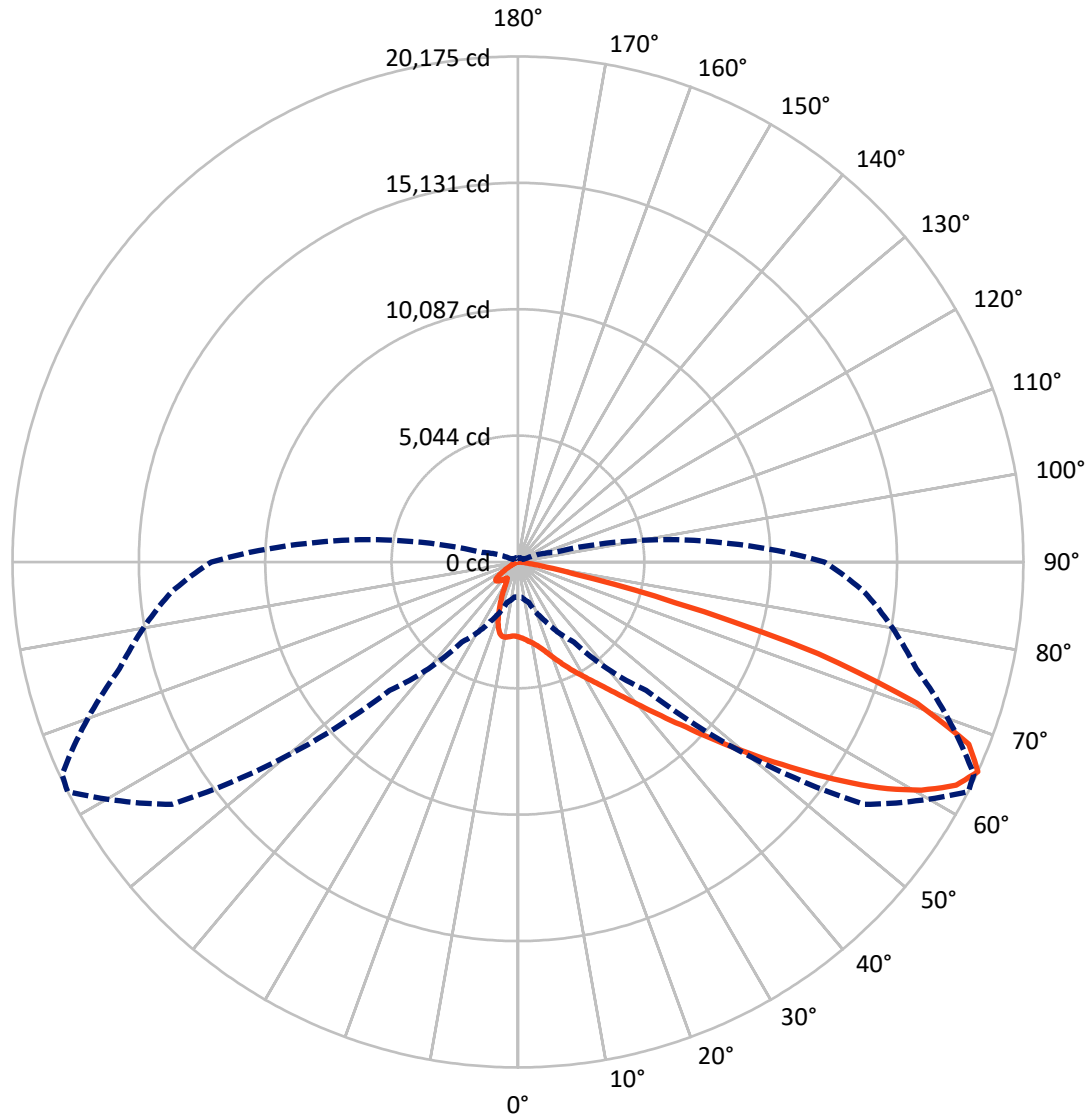
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3558.4	0.0	3558.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20649.6	0.0	20649.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	24208.0	0.0	24208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.5	1.2
10°-20°	781.1	3.2
20°-30°	1360.0	5.6
30°-40°	2451.3	10.1
40°-50°	4861.7	20.1
50°-60°	6622.5	27.4
60°-70°	5286.0	21.8
70°-80°	2392.0	9.9
80°-90°	171.9	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°	24208.0	100.0
0°-180°	24208.0	100.0

Coefficient of Utilization



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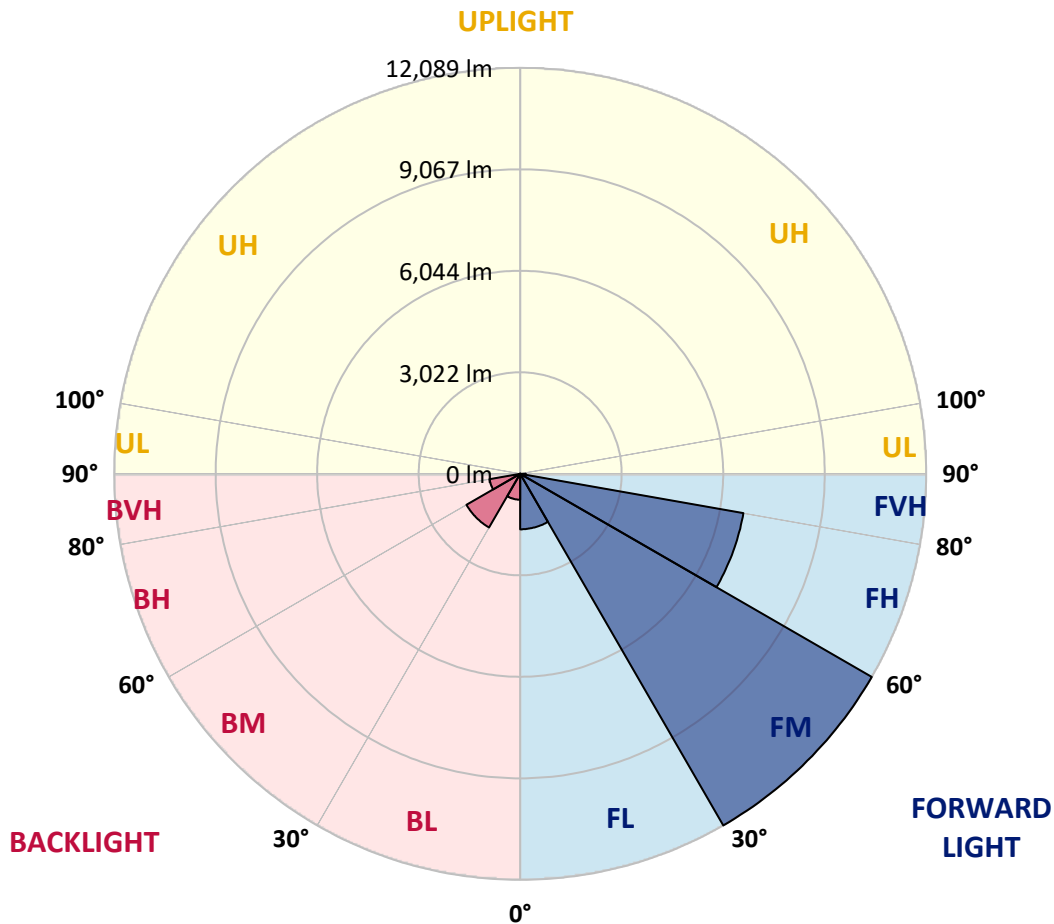
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.5	6.8			
FM (30°-60°)	12088.9	49.9			
FH (60°-80°)	6749.1	27.9			G3/7500
FVH (80°-90°)	159.2	0.7			G2/225
BL (0°-30°)	770.1	3.2	B2/1000		
BM (30°-60°)	1846.6	7.6	B2/2500		
BH (60°-80°)	929.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	12.8	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°	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7
2.5°	3057.7	3049.3	3061.0	3056.0	3052.7	3046.0	3042.7	3039.4	3032.7	3027.7
5°	3066.0	3061.0	3072.7	3082.7	3092.6	3102.6	3107.6	3114.3	3107.6	3094.3
7.5°	2996.1	2992.7	3017.7	3047.7	3092.6	3130.9	3172.6	3195.9	3197.6	3192.6
10°	2991.1	2982.7	3007.7	3044.3	3102.6	3170.9	3244.2	3294.2	3300.8	3322.5
12.5°	3069.3	3061.0	3096.0	3135.9	3195.9	3267.5	3357.4	3427.4	3437.4	3467.4
15°	3200.9	3189.2	3229.2	3280.8	3357.4	3439.0	3534.0	3597.3	3605.6	3642.2
17.5°	3354.1	3342.5	3389.1	3444.0	3527.3	3638.9	3748.8	3818.8	3828.8	3852.1
20°	3550.6	3535.6	3572.3	3622.2	3710.5	3843.7	3975.3	4075.2	4073.6	4073.6
22.5°	3778.8	3755.5	3787.1	3827.1	3910.4	4071.9	4246.8	4365.0	4365.0	4318.4
25°	4023.6	4000.3	4035.3	4071.9	4145.2	4328.4	4533.2	4679.8	4686.4	4606.5
27.5°	4330.0	4300.1	4326.7	4370.0	4413.3	4599.8	4843.0	5012.8	5016.2	4892.9
30°	4919.6	4834.7	4751.4	4704.8	4724.7	4909.6	5169.4	5357.6	5374.2	5204.4
32.5°	5998.8	5982.1	5689.0	5306.0	5106.1	5242.7	5534.1	5760.6	5770.6	5552.4
35°	7675.8	7655.8	7184.5	6455.1	5803.9	5689.0	5977.1	6245.2	6238.6	5992.1
37.5°	9677.6	9659.3	9038.1	8062.2	7008.0	6363.5	6548.3	6829.8	6871.4	6548.3
40°	11388.0	11319.7	10926.7	9985.7	8606.8	7482.6	7361.1	7547.6	7590.9	7207.8
42.5°	12683.7	12625.4	12425.5	11837.7	10542.0	9138.0	8318.7	8390.3	8438.6	7978.9
45°	13354.8	13341.5	13421.4	13366.5	12513.8	11169.8	9687.6	9389.5	9407.8	8833.3
47.5°	13449.8	13443.1	13807.8	14324.1	14209.2	13461.4	11444.6	10635.2	10570.3	9797.5
50°	12890.2	12876.9	13576.3	14543.9	15341.6	15386.6	13439.8	12039.2	11895.9	10795.1
52.5°	11103.2	11099.9	12249.0	13859.4	15739.7	17072.0	15411.6	13581.3	13341.5	11851.0
55°	8543.5	8605.1	9922.4	11826.0	15013.6	17883.0	17181.9	15293.4	14925.3	12913.5
57.5°	6052.1	6142.0	7444.3	9139.7	12761.9	17403.4	18379.3	17008.7	16612.3	13972.7
60°	3250.9	3330.8	4634.8	6658.3	9494.4	15614.8	19010.5	18497.6	18122.9	14978.6
62.5°	1936.9	1963.5	2503.1	4298.4	6421.8	11929.2	18742.4	19631.7	19323.6	15822.9
65°	1390.6	1395.6	1667.1	2624.7	3898.7	7247.8	16862.2	20174.6	20079.7	16459.1
67.5°	1170.8	1167.4	1280.7	1743.7	2656.3	3630.6	12923.5	19406.9	19809.9	16862.2
70°	1004.2	1009.2	1142.5	1277.4	1996.8	2055.1	6425.1	16897.1	17756.5	16968.7
72.5°	747.8	764.4	887.7	1164.1	1507.2	1413.9	2218.3	12528.8	14082.6	15987.8
75°	527.9	536.3	624.5	979.3	1124.1	1029.2	1132.5	6476.7	8468.6	12257.3
77.5°	406.4	421.3	473.0	684.5	1107.5	722.8	692.8	2241.6	3444.0	7404.4
80°	219.8	246.5	341.4	494.6	777.7	511.3	343.1	892.7	1167.4	3462.4
82.5°	113.2	126.6	238.2	356.4	443.0	446.3	169.9	371.4	481.3	1069.2
85°	45.0	55.0	159.9	196.5	228.2	219.8	76.6	149.9	173.2	296.4
87.5°	10.0	16.7	58.3	45.0	43.3	46.6	18.3	35.0	33.3	35.0
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°
2987.7	0°	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7	2987.7
3007.7	2.5°	3006.0	2999.4	2981.1	2961.1	2937.8	2924.4	2916.1	2914.4	2902.8	2894.5
3074.3	5°	3056.0	3049.3	3014.4	2972.7	2927.8	2892.8	2859.5	2829.5	2786.2	2777.9
3170.9	7.5°	3155.9	3137.6	3081.0	3024.4	2939.4	2837.8	2714.6	2573.0	2446.5	2408.2
3299.2	10°	3279.2	3254.2	3182.6	3082.7	2894.5	2618.0	2319.9	2043.4	1823.6	1762.0
3450.7	12.5°	3419.1	3397.4	3302.5	3117.6	2706.3	2205.0	1748.7	1405.6	1192.4	1139.1
3612.2	15°	3585.6	3554.0	3422.4	3064.3	2369.9	1675.4	1200.8	997.6	921.0	911.0
3797.1	17.5°	3762.1	3710.5	3529.0	2872.8	1916.9	1190.8	927.6	869.3	836.0	826.0
3983.6	20°	3923.7	3857.1	3592.3	2583.0	1432.2	927.6	831.0	792.7	762.8	751.1
4170.2	22.5°	4085.2	3990.3	3592.3	2188.3	1074.2	822.7	762.8	727.8	692.8	677.8
4370.0	25°	4253.4	4126.9	3529.0	1748.7	864.3	754.4	697.8	659.5	629.5	611.2
4559.9	27.5°	4416.6	4241.8	3384.1	1332.3	769.4	694.5	637.8	601.2	572.9	559.6
4766.4	30°	4571.5	4355.0	3180.9	1010.9	707.8	636.2	582.9	551.2	522.9	509.6
5034.5	32.5°	4781.4	4498.2	2964.4	829.4	654.5	581.2	532.9	503.0	478.0	468.0
5382.6	35°	5072.8	4709.7	2777.9	814.4	609.5	536.3	488.0	459.6	434.7	426.3
5832.2	37.5°	5485.8	5051.2	2679.6	914.3	572.9	496.3	451.3	421.3	398.0	391.4
6403.5	40°	5995.4	5514.1	2732.9	1014.2	547.9	461.3	418.0	388.0	368.1	359.7
7059.6	42.5°	6600.0	6085.4	3027.7	1090.8	531.3	431.3	386.4	353.1	339.7	336.4
7804.1	45°	7294.4	6713.2	3479.0	1172.4	504.6	403.0	354.7	329.7	319.8	318.1
8613.4	47.5°	8083.8	7402.7	4002.0	1274.0	478.0	376.4	329.7	313.1	304.8	301.4
9457.8	50°	8866.6	8097.2	4539.9	1330.7	456.3	351.4	309.8	296.4	289.8	288.1
10350.5	52.5°	9686.0	8811.6	4974.5	1277.4	438.0	331.4	293.1	283.1	276.5	274.8
11173.2	55°	10467.0	9389.5	5049.5	1084.2	401.4	311.4	274.8	269.8	261.5	261.5
12007.5	57.5°	11139.8	9679.3	4519.9	796.1	364.7	281.5	256.5	251.5	244.8	243.1
12760.3	60°	11757.7	9596.0	3489.0	536.3	324.8	251.5	233.2	229.8	223.2	214.8
13414.8	62.5°	12105.8	9229.6	2386.5	349.7	284.8	219.8	206.5	204.8	189.9	173.2
13899.4	65°	12237.3	8476.9	1488.9	254.8	238.2	188.2	178.2	174.9	153.2	134.9
14174.2	67.5°	12122.4	7237.8	751.1	201.5	188.2	156.5	146.6	146.6	131.6	114.9
14157.6	70°	11662.8	5425.9	316.4	161.5	144.9	119.9	119.9	126.6	111.6	93.3
13423.1	72.5°	10665.2	3650.6	168.2	123.2	108.3	84.9	98.3	103.3	88.3	69.9
10986.6	75°	8478.5	2226.6	116.6	91.6	68.3	60.0	74.9	78.3	60.0	46.6
7532.6	77.5°	5798.9	1279.0	78.3	58.3	43.3	35.0	51.6	48.3	31.6	21.7
2904.5	80°	2546.4	532.9	45.0	26.6	16.7	13.3	18.3	13.3	10.0	6.7
398.0	82.5°	298.1	124.9	16.7	10.0	6.7	3.3	1.7	0.0	0.0	0.0
121.6	85°	61.6	15.0	8.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0
21.7	87.5°	11.7	3.3	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

<u>180°</u>
2987.7
2902.8
2774.6
2389.8
1738.7
1124.1
901.0
821.0
744.4
669.5
604.5
559.6
511.3
468.0
426.3
389.7
358.1
336.4
316.4
301.4
288.1
274.8
259.8
241.5
213.2
169.9
133.2
113.2
91.6
69.9
45.0
23.3
6.7
0.0
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