

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: P949736

Luminaire Tested: **GALN-SB4B-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11631 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

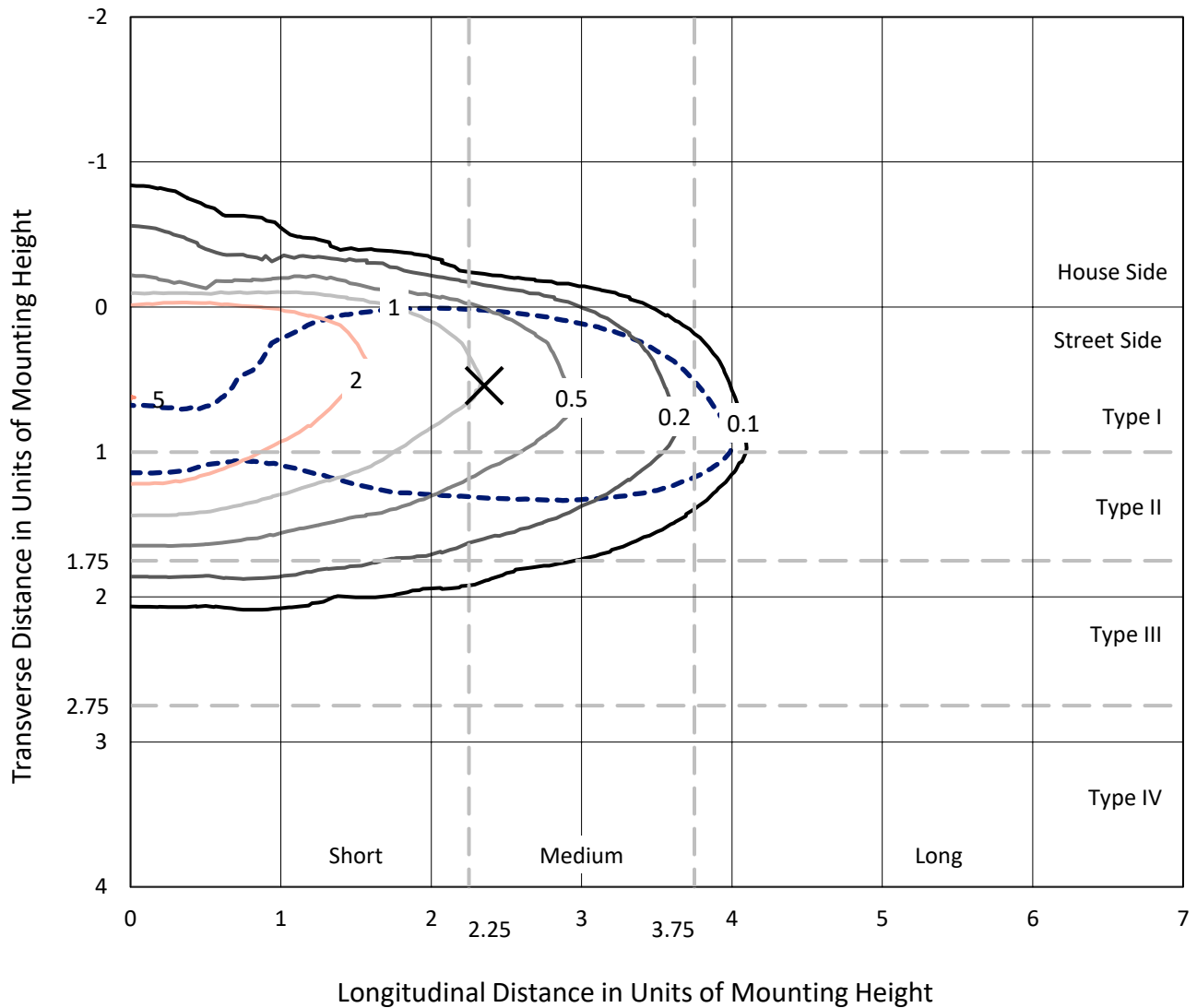
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

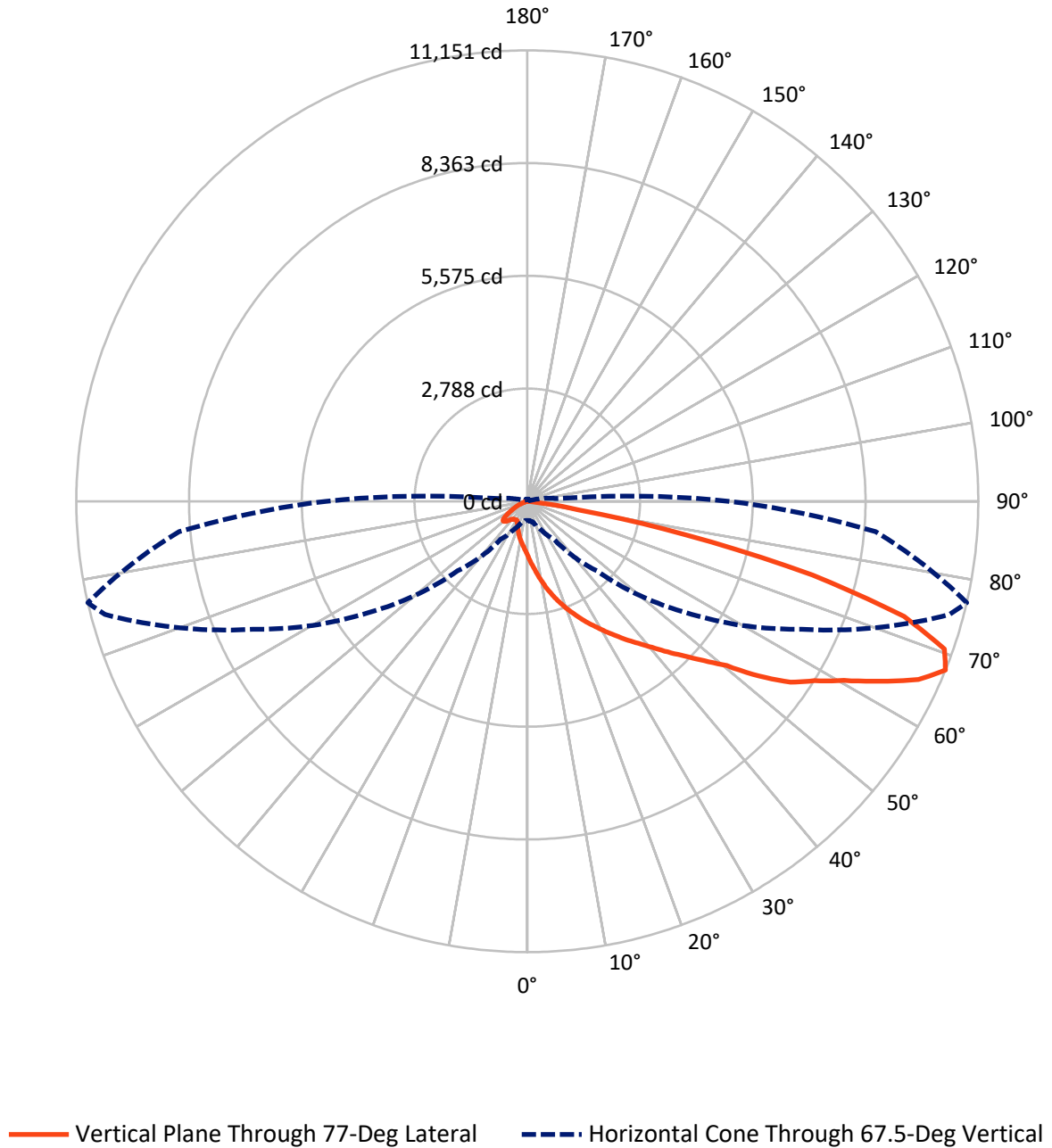
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.7	0.0	855.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	10775.3	0.0	10775.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	11631.0	0.0	11631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	1.2
10°-20°	479.4	4.1
20°-30°	925.1	8.0
30°-40°	1606.0	13.8
40°-50°	2331.8	20.0
50°-60°	2677.8	23.0
60°-70°	2324.8	20.0
70°-80°	1095.0	9.4
80°-90°	54.2	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°	11631.0	100.0
0°-180°	11631.0	100.0

Coefficient of Utilization



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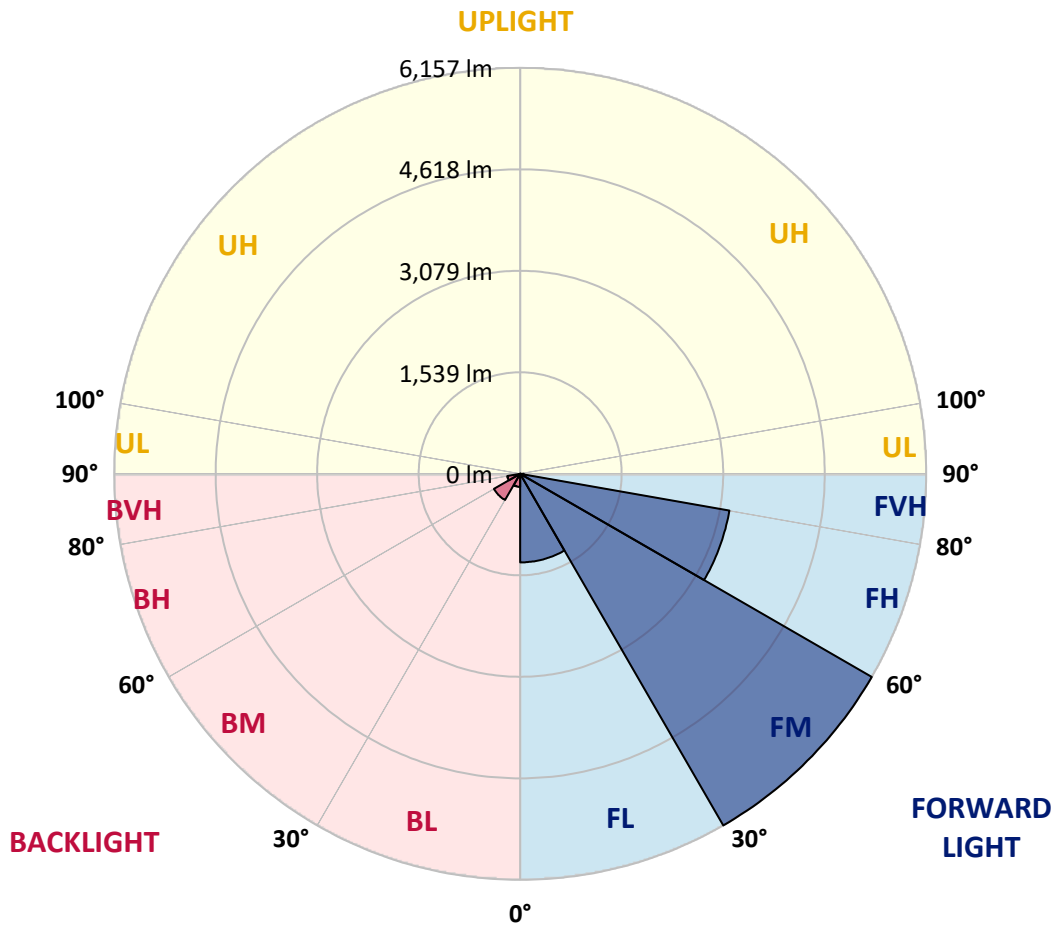
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1343.3	11.5			
FM (30°-60°)	6157.1	52.9			
FH (60°-80°)	3221.8	27.7			G2/5000
FVH (80°-90°)	53.2	0.5			G1/100
BL (0°-30°)	198.1	1.7	B1/500		
BM (30°-60°)	458.5	3.9	B1/1000		
BH (60°-80°)	198.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1856.9	1868.5	1851.9	1820.1	1772.4	1741.4	1665.5	1594.0	1514.6	1489.3
5°	2263.5	2273.7	2254.9	2220.2	2156.6	2096.0	1996.3	1846.8	1691.5	1641.7
7.5°	2564.7	2570.5	2563.3	2531.5	2470.8	2402.2	2291.0	2114.0	1883.6	1828.7
10°	2781.4	2800.2	2798.0	2785.7	2745.3	2689.7	2571.2	2369.7	2098.9	2028.1
12.5°	2925.1	2946.1	2958.4	2985.8	2983.6	2948.2	2844.2	2631.2	2313.4	2230.3
15°	2967.0	2989.4	3036.4	3099.9	3156.2	3174.3	3101.4	2887.6	2549.6	2443.4
17.5°	2943.2	2977.9	3034.2	3134.6	3258.1	3339.7	3331.8	3135.3	2764.1	2642.7
20°	2995.9	3029.1	3073.2	3157.7	3301.4	3449.5	3508.7	3372.2	2977.1	2850.0
22.5°	3287.7	3281.9	3286.3	3300.0	3385.9	3532.5	3654.6	3587.4	3188.0	3058.0
25°	3749.9	3723.9	3679.9	3605.5	3583.8	3654.6	3781.7	3778.1	3410.5	3271.1
27.5°	4280.1	4275.7	4172.5	3993.3	3892.2	3864.8	3925.4	3963.7	3630.8	3482.0
30°	4787.8	4799.4	4660.0	4460.6	4275.0	4167.4	4112.5	4140.0	3854.7	3709.5
32.5°	5229.8	5242.1	5090.4	4857.2	4627.5	4497.5	4381.9	4314.0	4098.8	3940.6
35°	5603.2	5615.5	5441.5	5183.6	4938.8	4821.0	4690.3	4504.7	4344.4	4197.0
37.5°	5936.9	5933.3	5700.0	5440.0	5199.5	5106.3	5037.7	4739.4	4597.1	4454.9
40°	6134.1	6149.3	5949.9	5663.2	5429.9	5362.0	5357.7	5030.5	4888.9	4751.0
42.5°	6191.9	6218.6	6074.2	5838.7	5627.1	5553.4	5666.8	5345.4	5228.4	5094.1
45°	6087.9	6113.9	6048.2	5884.9	5761.4	5713.7	5932.6	5671.9	5591.0	5458.1
47.5°	5784.5	5817.0	5832.9	5798.3	5796.8	5845.2	6170.9	6015.7	6021.4	5885.6
50°	5197.3	5252.2	5398.1	5520.9	5710.9	5949.2	6402.8	6388.3	6506.8	6389.8
52.5°	4129.8	4207.9	4710.5	5046.4	5473.2	5929.7	6657.7	6986.4	7358.3	7187.1
55°	3318.8	3318.8	3727.6	4355.9	5009.6	5801.1	6769.0	7374.9	7938.3	7897.8
57.5°	2705.6	2738.1	2998.8	3554.2	4338.6	5494.9	6837.6	7619.1	8405.6	8376.0
60°	1669.9	1739.9	2232.5	2780.7	3575.2	4949.6	6794.2	7866.1	8972.6	8996.4
62.5°	940.4	966.4	1185.9	2000.6	2780.0	4216.5	6462.7	8004.0	9697.7	9798.8
65°	649.3	662.3	746.8	1245.2	1927.0	3357.0	5814.9	7918.1	10424.3	10628.7
67.5°	471.6	478.1	530.9	760.5	1143.3	2434.0	4799.4	7484.7	10809.3	11150.9
70°	362.6	366.9	405.2	499.8	675.3	1502.3	3485.6	6623.1	10530.5	10938.5
72.5°	294.7	299.0	328.6	369.8	447.8	888.4	2112.6	5378.6	9299.7	9740.3
75°	248.5	254.2	281.0	307.7	351.0	570.6	990.9	3745.6	6993.6	7282.5
77.5°	138.0	127.1	228.2	255.0	296.1	361.1	463.7	2204.3	3916.8	3997.0
80°	85.9	88.8	181.3	205.1	227.5	182.0	212.3	848.6	1357.8	1289.9
82.5°	5.1	11.6	139.4	148.1	156.0	78.0	80.2	288.2	327.2	300.5
85°	0.0	0.0	63.6	51.3	54.2	22.4	23.1	67.2	44.1	47.7
87.5°	0.0	0.0	0.0	1.4	0.0	2.2	4.3	5.8	2.2	2.9
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°
1341.2	0°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
1409.8	2.5°	1359.3	1308.7	1206.2	1105.8	1024.2	948.3	894.2	842.9	816.9	815.4
1500.8	5°	1400.5	1294.3	1089.2	907.9	762.0	645.0	569.1	515.0	487.5	478.1
1612.8	7.5°	1458.2	1298.6	986.6	734.5	562.6	462.2	418.9	401.6	395.8	389.3
1739.2	10°	1531.2	1308.7	894.9	591.5	443.5	392.9	375.6	368.3	364.0	359.7
1881.5	12.5°	1612.8	1318.1	803.9	491.1	390.0	364.0	351.7	343.1	337.3	332.2
2027.4	15°	1692.2	1323.9	709.3	421.1	362.6	341.6	328.6	319.2	311.3	305.5
2170.4	17.5°	1771.0	1331.8	620.4	379.2	340.2	319.2	306.2	294.7	288.2	281.7
2320.6	20°	1858.4	1330.4	536.6	349.6	317.8	296.8	283.1	272.3	265.8	258.6
2479.5	22.5°	1939.3	1323.2	463.0	324.3	294.7	274.5	259.3	248.5	242.0	236.2
2642.0	25°	2032.4	1317.4	401.6	301.2	273.0	252.8	236.2	226.1	218.8	213.8
2805.2	27.5°	2122.0	1308.7	356.8	280.2	252.1	232.6	216.7	205.1	198.6	195.0
2973.5	30°	2210.1	1306.6	340.2	260.0	233.3	213.8	197.9	187.1	182.0	180.6
3158.4	32.5°	2316.3	1312.3	347.4	252.8	216.0	196.5	181.3	173.3	168.3	168.3
3364.3	35°	2429.7	1310.9	358.2	259.3	204.4	179.1	167.6	162.5	157.5	157.5
3592.5	37.5°	2571.9	1313.1	366.9	270.1	200.1	164.7	158.2	151.7	148.8	148.8
3842.4	40°	2784.3	1384.6	362.6	279.5	198.6	154.6	141.6	139.4	137.2	137.2
4124.8	42.5°	3044.3	1539.8	368.3	280.2	197.9	147.3	130.0	134.3	129.3	128.6
4443.3	45°	3328.9	1709.6	405.2	265.1	197.2	143.7	124.2	129.3	121.3	121.3
4812.4	47.5°	3611.3	1877.9	442.7	243.4	195.0	143.0	119.2	116.3	114.1	114.8
5293.4	50°	4000.6	2015.1	457.2	213.8	190.0	141.6	109.8	110.5	109.1	110.5
5971.6	52.5°	4424.5	2044.0	439.9	180.6	175.5	137.2	103.3	106.2	105.4	106.9
6449.0	55°	4688.9	2012.9	363.3	150.2	153.1	119.9	96.8	102.6	102.6	102.6
6915.6	57.5°	4961.9	1880.7	257.8	122.1	127.1	98.2	91.0	98.9	98.2	97.5
7477.5	60°	5158.3	1667.0	169.7	100.4	101.1	80.9	84.5	93.2	92.4	88.8
8056.7	62.5°	5305.0	1430.8	109.1	85.2	77.3	72.9	77.3	84.5	81.6	73.7
8547.9	65°	5288.3	1103.6	83.8	72.9	63.6	63.6	67.2	73.7	65.0	52.0
8641.8	67.5°	4979.9	746.8	69.3	61.4	53.4	52.7	55.6	61.4	55.6	44.1
8160.7	70°	4428.9	488.2	55.6	47.7	42.6	39.0	44.8	52.7	46.9	35.4
6947.4	72.5°	3594.7	297.6	41.9	34.7	31.1	25.3	35.4	43.3	37.6	26.0
4831.2	75°	2325.7	151.7	28.9	22.4	16.6	15.2	26.0	32.5	26.0	15.9
2143.6	77.5°	889.8	63.6	15.9	10.1	8.7	7.2	14.4	19.5	10.8	3.6
415.3	80°	171.2	26.7	7.9	5.1	4.3	2.9	2.2	1.4	0.0	0.0
73.7	82.5°	29.6	8.7	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
14.4	85°	10.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.1	87.5°	3.6	0.0	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

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180°
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1341.2
814.0
476.7
387.9
358.2
330.8
304.8
281.0
257.8
235.5
213.1
195.0
179.8
168.3
157.5
148.8
137.2
127.8
121.3
114.8
110.5
106.9
102.6
97.5
88.8
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