

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: P946712

Luminaire Tested: **GALN-SB2B-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946712
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-SB2B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 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: 10087 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

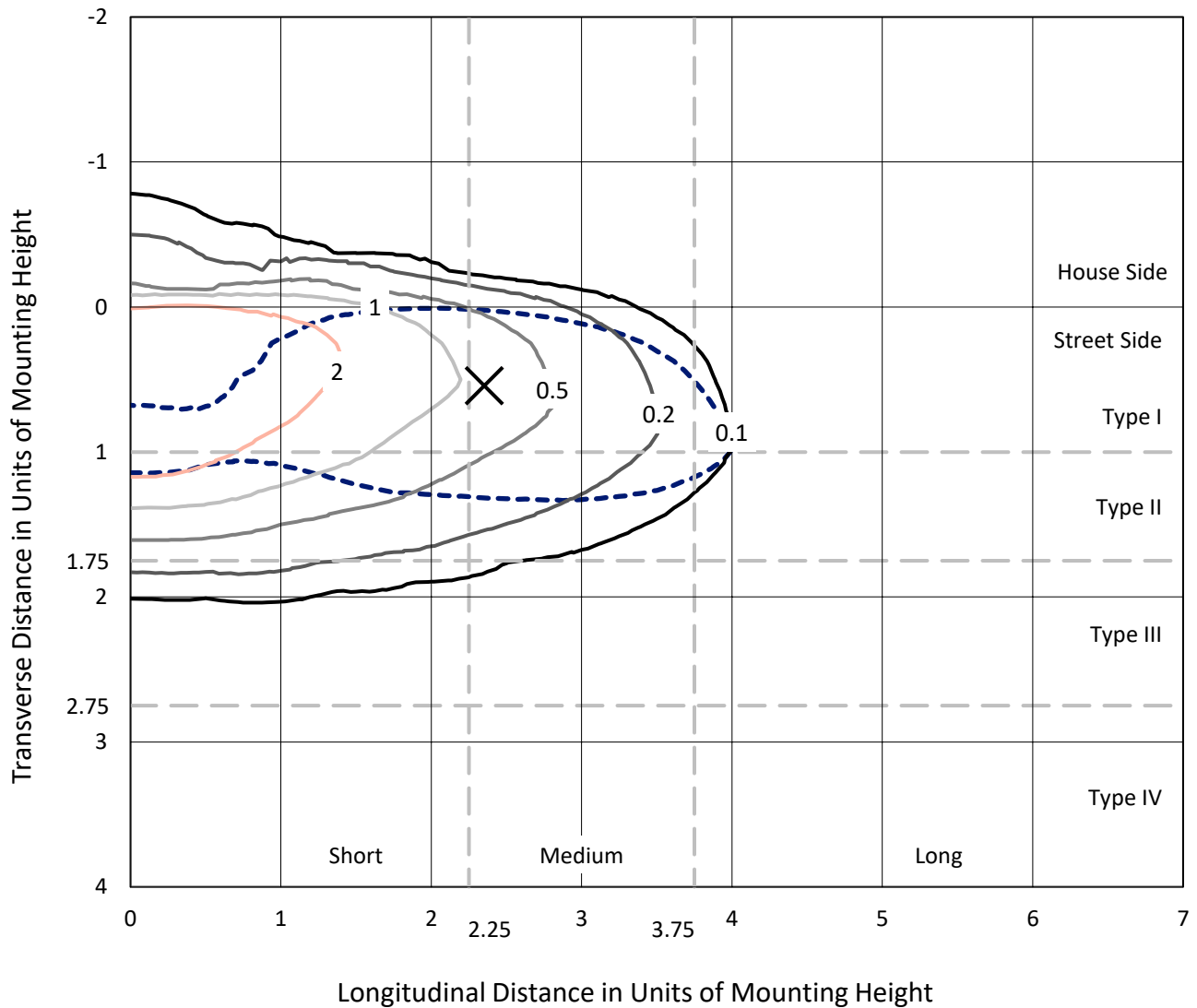
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

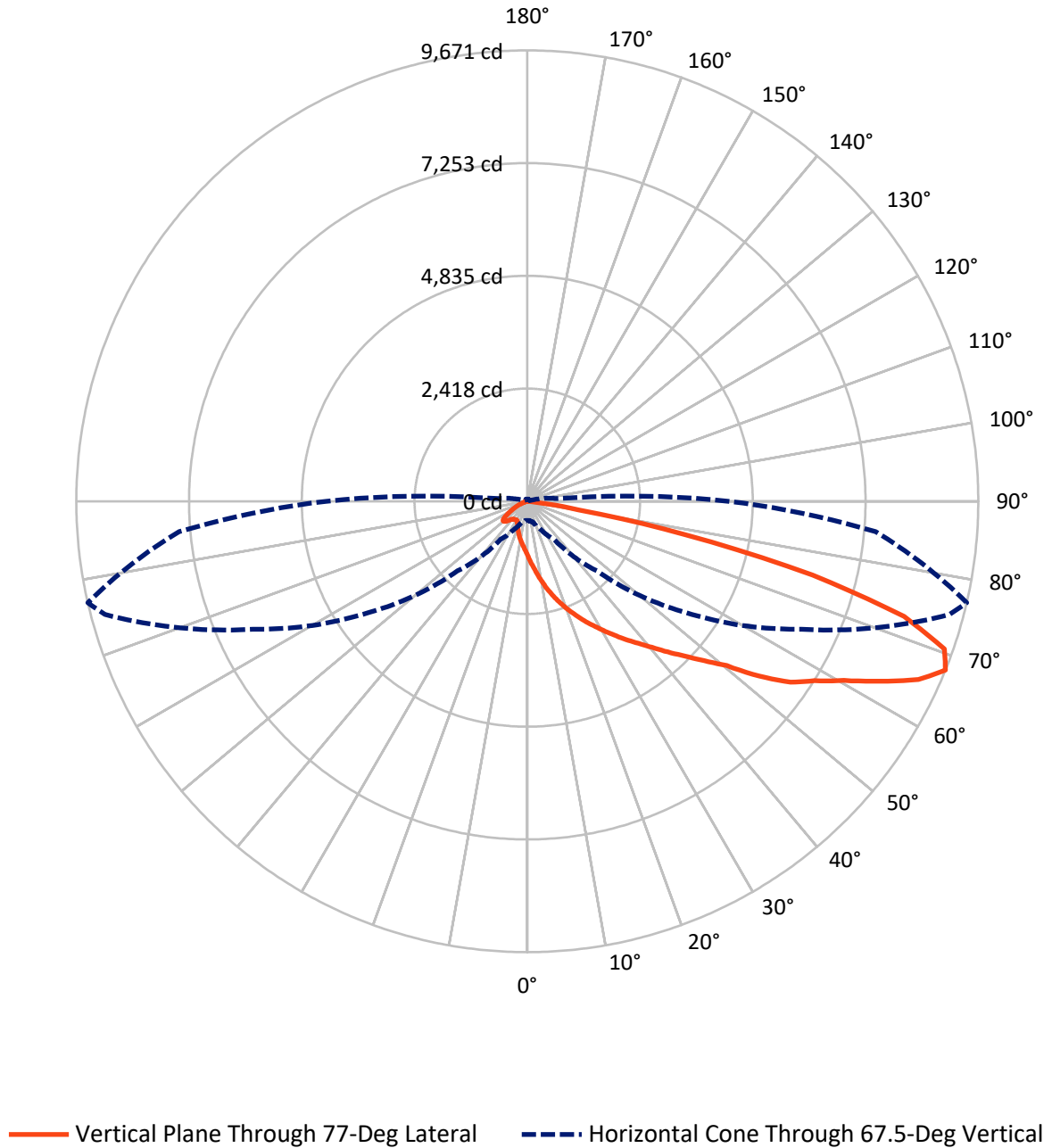
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	742.1	0.0	742.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9344.9	0.0	9344.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	10087.0	0.0	10087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	1.2
10°-20°	415.7	4.1
20°-30°	802.3	8.0
30°-40°	1392.8	13.8
40°-50°	2022.3	20.0
50°-60°	2322.3	23.0
60°-70°	2016.2	20.0
70°-80°	949.7	9.4
80°-90°	47.0	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°	10087.0	100.0
0°-180°	10087.0	100.0

Coefficient of Utilization



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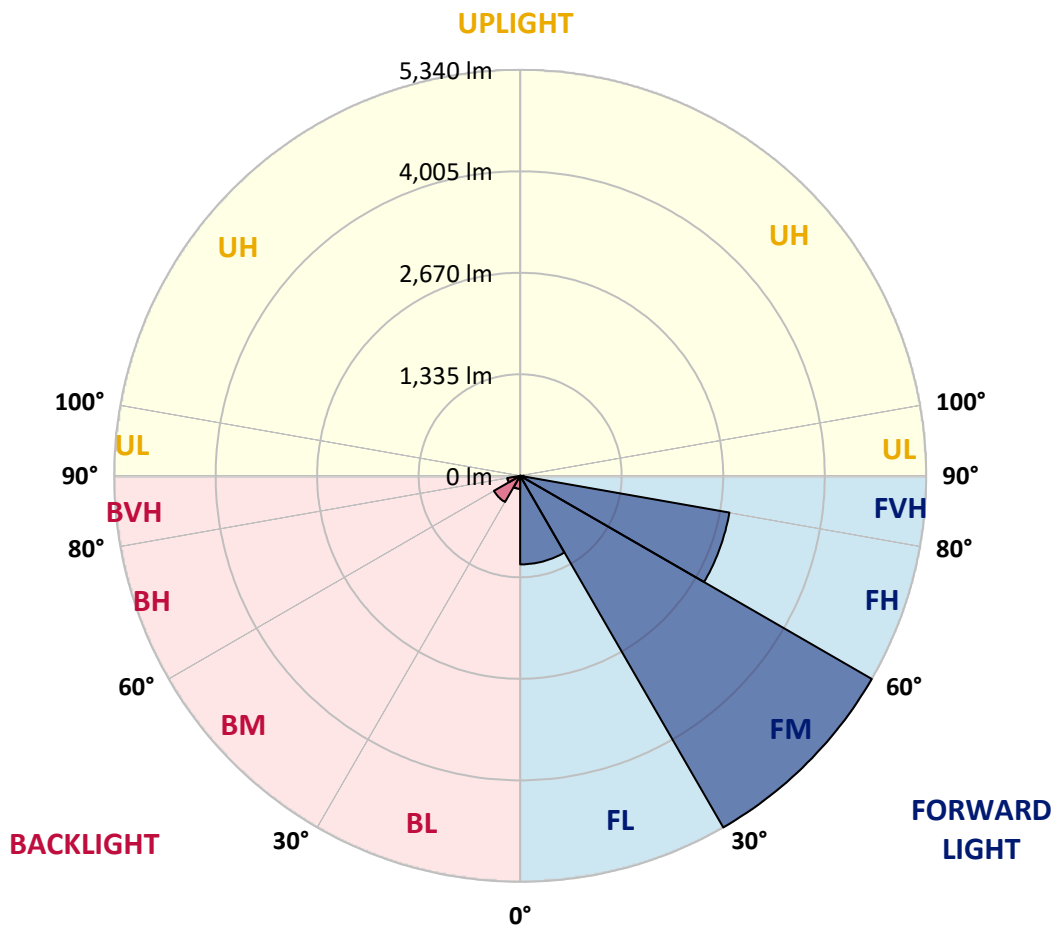
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.9	11.5			
FM (30°-60°)	5339.8	52.9			
FH (60°-80°)	2794.1	27.7			G2/5000
FVH (80°-90°)	46.1	0.5			G1/100
BL (0°-30°)	171.8	1.7	B1/500		
BM (30°-60°)	397.6	3.9	B1/1000		
BH (60°-80°)	171.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.9	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°	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2
2.5°	1610.4	1620.4	1606.0	1578.5	1537.1	1510.2	1444.4	1382.4	1313.5	1291.6
5°	1963.1	1971.8	1955.5	1925.5	1870.4	1817.7	1731.3	1601.6	1467.0	1423.8
7.5°	2224.3	2229.3	2223.0	2195.4	2142.8	2083.3	1986.9	1833.4	1633.6	1586.0
10°	2412.2	2428.5	2426.6	2415.9	2380.9	2332.6	2229.9	2055.1	1820.2	1758.9
12.5°	2536.8	2555.0	2565.6	2589.4	2587.6	2556.9	2466.7	2281.9	2006.3	1934.2
15°	2573.2	2592.6	2633.3	2688.4	2737.3	2752.9	2689.7	2504.2	2211.1	2119.0
17.5°	2552.5	2582.5	2631.4	2718.5	2825.6	2896.4	2889.5	2719.1	2397.1	2291.9
20°	2598.2	2627.0	2665.2	2738.5	2863.2	2991.6	3042.9	2924.5	2581.9	2471.7
22.5°	2851.3	2846.3	2850.0	2861.9	2936.4	3063.6	3169.5	3111.2	2764.8	2652.1
25°	3252.1	3229.6	3191.4	3126.9	3108.1	3169.5	3279.7	3276.6	2957.7	2836.9
27.5°	3711.9	3708.1	3618.6	3463.2	3375.5	3351.7	3404.4	3437.5	3148.8	3019.8
30°	4152.2	4162.3	4041.4	3868.5	3707.5	3614.2	3566.6	3590.4	3343.0	3217.1
32.5°	4535.6	4546.2	4414.7	4212.4	4013.2	3900.4	3800.2	3741.3	3554.7	3417.5
35°	4859.4	4870.1	4719.1	4495.5	4283.2	4181.1	4067.7	3906.7	3767.6	3639.9
37.5°	5148.8	5145.7	4943.4	4717.9	4509.3	4428.5	4369.0	4110.3	3986.9	3863.5
40°	5319.8	5333.0	5160.1	4911.4	4709.1	4650.2	4646.5	4362.7	4239.9	4120.3
42.5°	5369.9	5393.1	5267.8	5063.6	4880.1	4816.2	4914.5	4635.8	4534.3	4417.8
45°	5279.7	5302.3	5245.3	5103.7	4996.6	4955.3	5145.0	4918.9	4848.8	4733.5
47.5°	5016.6	5044.8	5058.6	5028.5	5027.3	5069.3	5351.8	5217.1	5222.1	5104.3
50°	4507.4	4555.0	4681.5	4788.0	4952.8	5159.5	5552.8	5540.3	5643.0	5541.5
52.5°	3581.6	3649.3	4085.2	4376.5	4746.7	5142.5	5773.9	6058.9	6381.5	6233.1
55°	2878.2	2878.2	3232.7	3777.7	4344.5	5031.0	5870.4	6395.9	6884.5	6849.4
57.5°	2346.4	2374.6	2600.7	3082.4	3762.6	4765.5	5929.9	6607.6	7289.8	7264.1
60°	1448.2	1508.9	1936.1	2411.5	3100.6	4292.6	5892.3	6821.9	7781.5	7802.1
62.5°	815.5	838.1	1028.5	1735.1	2410.9	3656.8	5604.8	6941.5	8410.3	8498.0
65°	563.1	574.4	647.7	1079.9	1671.2	2911.4	5042.9	6867.0	9040.5	9217.7
67.5°	409.0	414.7	460.4	659.6	991.6	2110.9	4162.3	6491.1	9374.3	9670.6
70°	314.4	318.2	351.4	433.5	585.7	1302.9	3022.9	5743.9	9132.6	9486.5
72.5°	255.6	259.3	285.0	320.7	388.4	770.4	1832.1	4664.6	8065.2	8447.3
75°	215.5	220.5	243.7	266.8	304.4	494.8	859.4	3248.4	6065.2	6315.7
77.5°	119.6	110.2	197.9	221.1	256.8	313.2	402.1	1911.7	3396.8	3466.4
80°	74.5	77.0	157.2	177.9	197.3	157.8	184.2	736.0	1177.6	1118.7
82.5°	4.4	10.0	120.9	128.4	135.3	67.6	69.5	249.9	283.7	260.6
85°	0.0	0.0	55.1	44.5	47.0	19.4	20.0	58.3	38.2	41.3
87.5°	0.0	0.0	0.0	1.3	0.0	1.9	3.8	5.0	1.9	2.5
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°
1163.2	0°	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2	1163.2
1222.7	2.5°	1178.8	1135.0	1046.0	959.0	888.2	822.4	775.5	731.0	708.4	707.2
1301.6	5°	1214.5	1122.5	944.6	787.4	660.8	559.4	493.6	446.6	422.8	414.7
1398.7	7.5°	1264.7	1126.2	855.6	637.0	487.9	400.9	363.3	348.3	343.3	337.6
1508.3	10°	1327.9	1135.0	776.1	513.0	384.6	340.7	325.7	319.5	315.7	311.9
1631.7	12.5°	1398.7	1143.1	697.2	425.9	338.2	315.7	305.0	297.5	292.5	288.1
1758.2	15°	1467.6	1148.1	615.1	365.2	314.4	296.3	285.0	276.9	270.0	265.0
1882.3	17.5°	1535.9	1155.0	538.1	328.8	295.0	276.9	265.6	255.6	249.9	244.3
2012.5	20°	1611.7	1153.8	465.4	303.2	275.6	257.4	245.5	236.1	230.5	224.2
2150.3	22.5°	1681.8	1147.5	401.5	281.2	255.6	238.0	224.9	215.5	209.8	204.8
2291.3	25°	1762.6	1142.5	348.3	261.2	236.8	219.2	204.8	196.1	189.8	185.4
2432.8	27.5°	1840.3	1135.0	309.4	243.0	218.6	201.7	187.9	177.9	172.3	169.1
2578.8	30°	1916.7	1133.1	295.0	225.5	202.3	185.4	171.6	162.2	157.8	156.6
2739.1	32.5°	2008.8	1138.1	301.3	219.2	187.3	170.4	157.2	150.3	145.9	145.9
2917.7	35°	2107.1	1136.9	310.7	224.9	177.3	155.3	145.3	140.9	136.5	136.5
3115.6	37.5°	2230.5	1138.8	318.2	234.3	173.5	142.8	137.2	131.5	129.0	129.0
3332.3	40°	2414.7	1200.8	314.4	242.4	172.3	134.0	122.8	120.9	119.0	119.0
3577.2	42.5°	2640.2	1335.4	319.5	243.0	171.6	127.8	112.7	116.5	112.1	111.5
3853.5	45°	2887.0	1482.6	351.4	229.9	171.0	124.6	107.7	112.1	105.2	105.2
4173.5	47.5°	3131.9	1628.6	384.0	211.1	169.1	124.0	103.4	100.8	99.0	99.6
4590.7	50°	3469.5	1747.6	396.5	185.4	164.7	122.8	95.2	95.8	94.6	95.8
5178.9	52.5°	3837.2	1772.6	381.5	156.6	152.2	119.0	89.6	92.1	91.5	92.7
5592.9	55°	4066.4	1745.7	315.1	130.3	132.8	104.0	83.9	88.9	88.9	88.9
5997.5	57.5°	4303.2	1631.1	223.6	105.9	110.2	85.2	78.9	85.8	85.2	84.6
6484.9	60°	4473.6	1445.7	147.2	87.1	87.7	70.2	73.3	80.8	80.2	77.0
6987.2	62.5°	4600.7	1240.8	94.6	73.9	67.0	63.3	67.0	73.3	70.8	63.9
7413.2	65°	4586.3	957.1	72.7	63.3	55.1	55.1	58.3	63.9	56.4	45.1
7494.6	67.5°	4318.9	647.7	60.1	53.2	46.4	45.7	48.2	53.2	48.2	38.2
7077.4	70°	3840.9	423.4	48.2	41.3	37.0	33.8	38.8	45.7	40.7	30.7
6025.1	72.5°	3117.5	258.1	36.3	30.1	26.9	21.9	30.7	37.6	32.6	22.5
4189.8	75°	2016.9	131.5	25.1	19.4	14.4	13.2	22.5	28.2	22.5	13.8
1859.1	77.5°	771.7	55.1	13.8	8.8	7.5	6.3	12.5	16.9	9.4	3.1
360.2	80°	148.5	23.2	6.9	4.4	3.8	2.5	1.9	1.3	0.0	0.0
63.9	82.5°	25.7	7.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
12.5	85°	8.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.4	87.5°	3.1	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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1163.2
705.9
413.4
336.4
310.7
286.9
264.3
243.7
223.6
204.2
184.8
169.1
156.0
145.9
136.5
129.0
119.0
110.9
105.2
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95.8
92.7
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