

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: P947216

Luminaire Tested: **GALN-SB2C-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947216  
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-SB2C-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

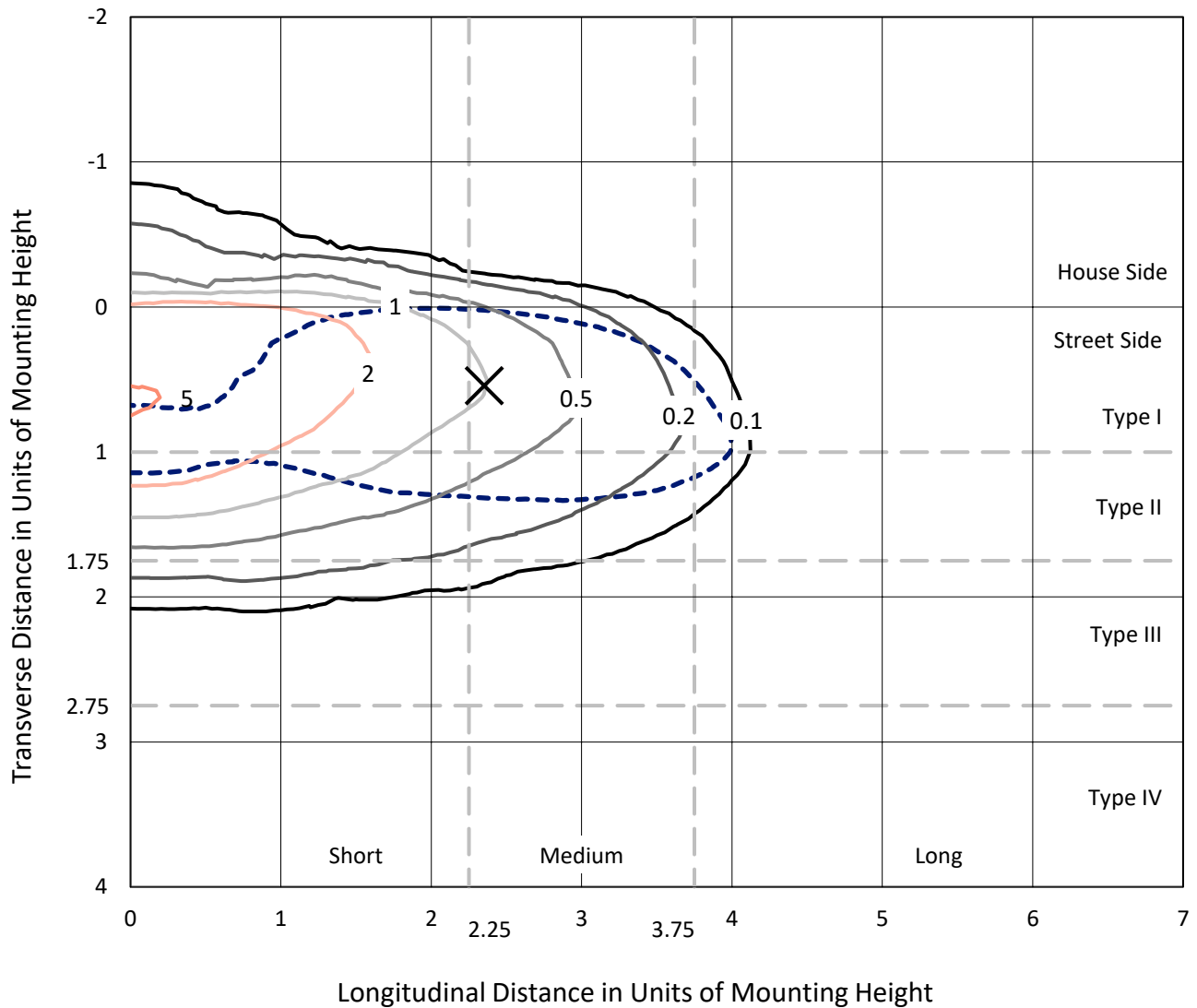
Lumens per Lamp: N/A  
Luminaire Lumens: 12129 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

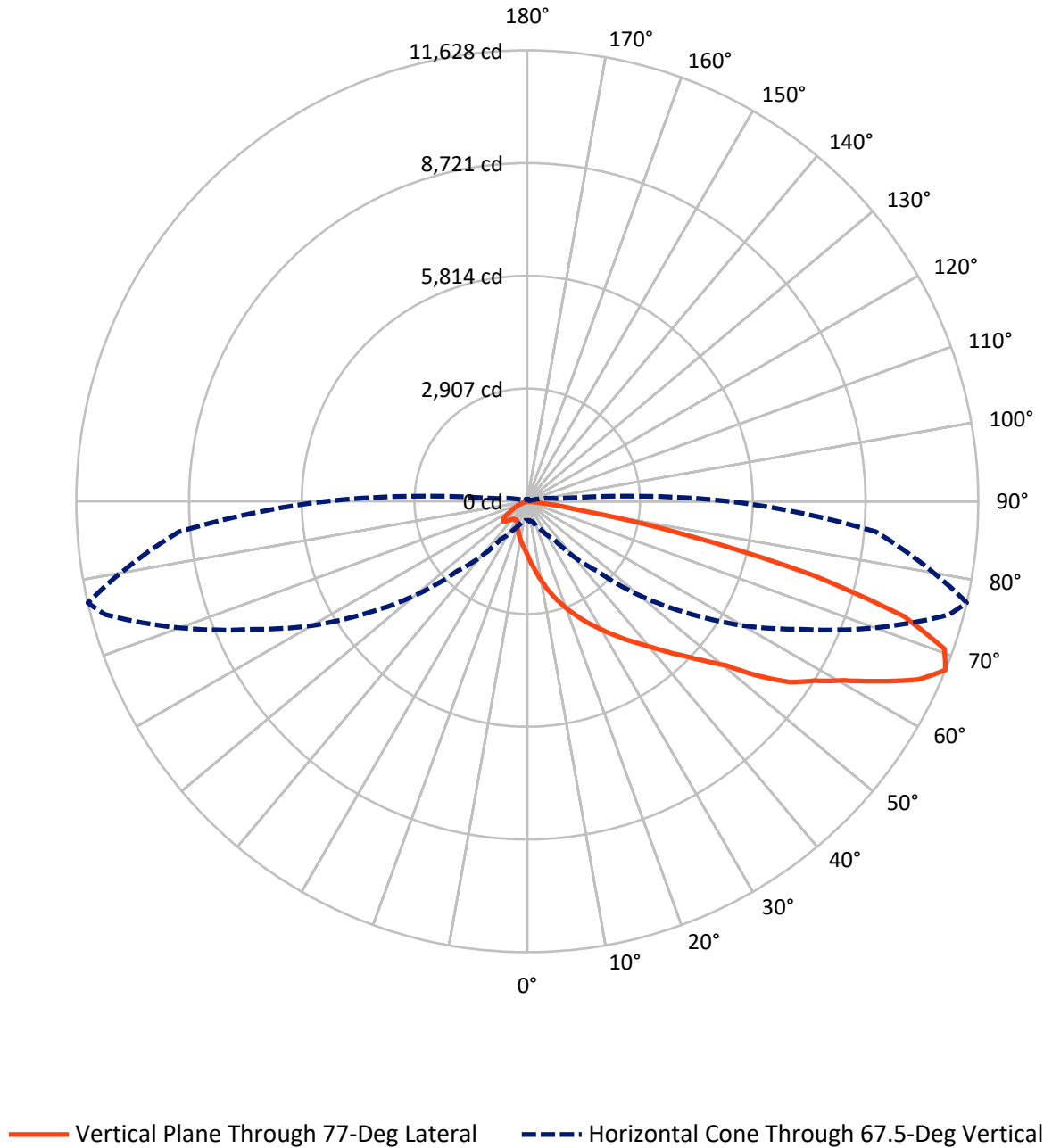
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	892.3	0.0	892.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	11236.7	0.0	11236.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	12129.0	0.0	12129.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	1.2
10°-20°	499.9	4.1
20°-30°	964.7	8.0
30°-40°	1674.8	13.8
40°-50°	2431.7	20.0
50°-60°	2792.5	23.0
60°-70°	2424.4	20.0
70°-80°	1141.9	9.4
80°-90°	56.5	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°	12129.0	100.0
0°-180°	12129.0	100.0

**Coefficient of Utilization**



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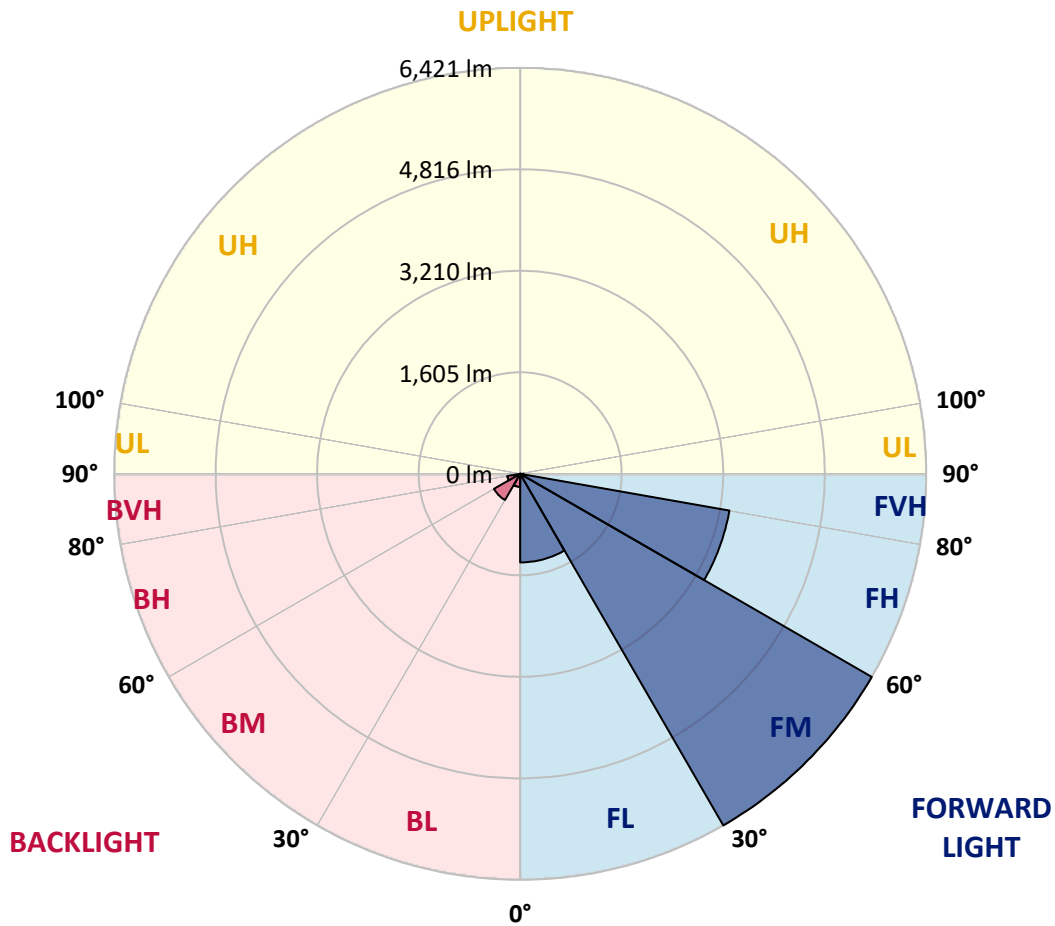
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.8	11.5			
FM (30°-60°)	6420.8	52.9			
FH (60°-80°)	3359.7	27.7			G2/5000
FVH (80°-90°)	55.4	0.5			G1/100
BL (0°-30°)	206.6	1.7	B1/500		
BM (30°-60°)	478.1	3.9	B1/1000		
BH (60°-80°)	206.6	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°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1936.4	1948.5	1931.1	1898.0	1848.3	1815.9	1736.8	1662.3	1579.4	1553.1
5°	2360.5	2371.0	2351.4	2315.3	2249.0	2185.7	2081.8	1925.9	1763.9	1712.0
7.5°	2674.5	2680.6	2673.0	2639.9	2576.6	2505.1	2389.1	2204.6	1964.3	1907.0
10°	2900.5	2920.1	2917.8	2905.0	2862.8	2804.8	2681.3	2471.2	2188.7	2114.9
12.5°	3050.4	3072.2	3085.0	3113.6	3111.4	3074.5	2966.0	2743.8	2412.4	2325.8
15°	3094.1	3117.4	3166.4	3232.6	3291.4	3310.2	3234.1	3011.2	2658.7	2548.0
17.5°	3069.2	3105.4	3164.1	3268.8	3397.6	3482.7	3474.4	3269.5	2882.4	2755.9
20°	3124.2	3158.8	3204.8	3292.9	3442.8	3597.2	3658.9	3516.6	3104.6	2972.0
22.5°	3428.5	3422.4	3427.0	3441.3	3530.9	3683.8	3811.1	3741.0	3324.5	3189.0
25°	3910.5	3883.4	3837.4	3759.9	3737.3	3811.1	3943.6	3939.9	3556.5	3411.1
27.5°	4463.3	4458.8	4351.1	4164.3	4058.9	4030.3	4093.5	4133.4	3786.2	3631.1
30°	4992.8	5004.9	4859.5	4651.6	4458.1	4345.8	4288.6	4317.2	4019.7	3868.3
32.5°	5453.8	5466.6	5308.4	5065.1	4825.6	4690.0	4569.5	4498.7	4274.3	4109.3
35°	5843.2	5856.0	5674.4	5405.6	5150.2	5027.5	4891.1	4697.6	4530.4	4376.7
37.5°	6191.1	6187.4	5944.1	5672.9	5422.1	5325.0	5253.4	4942.4	4794.0	4645.6
40°	6396.7	6412.6	6204.7	5905.7	5662.4	5591.6	5587.1	5245.9	5098.3	4954.4
42.5°	6457.0	6484.9	6334.2	6088.7	5868.0	5791.2	5909.4	5574.3	5452.3	5312.2
45°	6348.5	6375.7	6307.1	6136.9	6008.1	5958.4	6186.6	5914.7	5830.4	5691.8
47.5°	6032.2	6066.1	6082.7	6046.5	6045.0	6095.5	6435.2	6273.2	6279.2	6137.6
50°	5419.9	5477.1	5629.3	5757.3	5955.4	6203.9	6676.9	6661.9	6785.4	6663.4
52.5°	4306.7	4388.0	4912.2	5262.5	5707.6	6183.6	6942.8	7285.5	7673.4	7494.9
55°	3460.9	3460.9	3887.2	4542.4	5224.0	6049.5	7058.8	7690.7	8278.2	8236.0
57.5°	2821.4	2855.3	3127.2	3706.4	4524.3	5730.2	7130.3	7945.3	8765.5	8734.6
60°	1741.3	1814.4	2328.1	2899.7	3728.2	5161.5	7085.1	8202.9	9356.7	9381.6
62.5°	980.6	1007.8	1236.7	2086.3	2899.0	4397.1	6739.4	8346.7	10112.9	10218.4
65°	677.1	690.7	778.8	1298.5	2009.5	3500.8	6063.8	8257.1	10870.6	11083.8
67.5°	491.8	498.6	553.6	793.1	1192.3	2538.2	5004.9	7805.2	11272.1	11628.3
70°	378.1	382.6	422.5	521.2	704.2	1566.6	3634.8	6906.6	10981.3	11406.9
72.5°	307.3	311.8	342.7	385.6	467.0	926.4	2203.0	5608.9	9697.9	10157.4
75°	259.1	265.1	293.0	320.9	366.0	595.0	1033.4	3906.0	7293.0	7594.3
77.5°	143.9	132.6	238.0	265.9	308.8	376.6	483.5	2298.7	4084.5	4168.1
80°	89.6	92.6	189.0	213.9	237.3	189.8	221.4	885.0	1416.0	1345.2
82.5°	5.3	12.1	145.4	154.4	162.7	81.3	83.6	300.5	341.2	313.3
85°	0.0	0.0	66.3	53.5	56.5	23.3	24.1	70.0	45.9	49.7
87.5°	0.0	0.0	0.0	1.5	0.0	2.3	4.5	6.0	2.3	3.0
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°
1398.7	0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
1470.2	2.5°	1417.5	1364.8	1257.8	1153.1	1068.0	988.9	932.4	879.0	851.8	850.3
1565.1	5°	1460.4	1349.7	1135.8	946.7	794.6	672.6	593.5	537.0	508.4	498.6
1681.8	7.5°	1520.7	1354.2	1028.8	766.0	586.7	482.0	436.8	418.8	412.7	406.0
1813.7	10°	1596.7	1364.8	933.2	616.9	462.5	409.7	391.7	384.1	379.6	375.1
1962.0	12.5°	1681.8	1374.6	838.3	512.2	406.7	379.6	366.8	357.8	351.7	346.5
2114.2	15°	1764.7	1380.6	739.6	439.1	378.1	356.3	342.7	332.9	324.6	318.6
2263.3	17.5°	1846.8	1388.9	647.0	395.4	354.7	332.9	319.3	307.3	300.5	293.7
2420.0	20°	1937.9	1387.4	559.6	364.5	331.4	309.6	295.2	283.9	277.2	269.6
2585.7	22.5°	2022.3	1379.8	482.8	338.2	307.3	286.2	270.4	259.1	252.3	246.3
2755.1	25°	2119.4	1373.8	418.8	314.1	284.7	263.6	246.3	235.7	228.2	222.9
2925.3	27.5°	2212.8	1364.8	372.1	292.2	262.9	242.5	226.0	213.9	207.1	203.4
3100.8	30°	2304.7	1362.5	354.7	271.1	243.3	222.9	206.4	195.1	189.8	188.3
3293.6	32.5°	2415.4	1368.5	362.3	263.6	225.2	204.9	189.0	180.8	175.5	175.5
3508.3	35°	2533.7	1367.0	373.6	270.4	213.1	186.8	174.7	169.5	164.2	164.2
3746.3	37.5°	2682.1	1369.3	382.6	281.7	208.6	171.7	164.9	158.2	155.2	155.2
4006.9	40°	2903.5	1443.8	378.1	291.5	207.1	161.2	147.6	145.4	143.1	143.1
4301.4	42.5°	3174.6	1605.8	384.1	292.2	206.4	153.6	135.6	140.1	134.8	134.1
4633.6	45°	3471.4	1782.8	422.5	276.4	205.6	149.9	129.5	134.8	126.5	126.5
5018.4	47.5°	3765.9	1958.3	461.7	253.8	203.4	149.1	124.3	121.3	119.0	119.8
5520.0	50°	4171.9	2101.4	476.8	222.9	198.1	147.6	114.5	115.2	113.7	115.2
6227.3	52.5°	4614.0	2131.5	458.7	188.3	183.0	143.1	107.7	110.7	110.0	111.5
6725.1	55°	4889.6	2099.1	378.8	156.7	159.7	125.0	100.9	107.0	107.0	107.0
7211.7	57.5°	5174.3	1961.3	268.9	127.3	132.6	102.4	94.9	103.2	102.4	101.7
7797.7	60°	5379.2	1738.3	177.0	104.7	105.4	84.4	88.1	97.2	96.4	92.6
8401.7	62.5°	5532.1	1492.0	113.7	88.9	80.6	76.1	80.6	88.1	85.1	76.8
8913.9	65°	5514.8	1150.9	87.4	76.1	66.3	66.3	70.0	76.8	67.8	54.2
9011.8	67.5°	5193.2	778.8	72.3	64.0	55.7	55.0	58.0	64.0	58.0	45.9
8510.2	70°	4618.5	509.1	58.0	49.7	44.4	40.7	46.7	55.0	49.0	36.9
7244.8	72.5°	3748.6	310.3	43.7	36.2	32.4	26.4	36.9	45.2	39.2	27.1
5038.0	75°	2425.2	158.2	30.1	23.3	17.3	15.8	27.1	33.9	27.1	16.6
2235.4	77.5°	927.9	66.3	16.6	10.5	9.0	7.5	15.1	20.3	11.3	3.8
433.1	80°	178.5	27.9	8.3	5.3	4.5	3.0	2.3	1.5	0.0	0.0
76.8	82.5°	30.9	9.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
15.1	85°	10.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.3	87.5°	3.8	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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1398.7
848.8
497.1
404.5
373.6
345.0
317.8
293.0
268.9
245.5
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203.4
187.5
175.5
164.2
155.2
143.1
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