

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: P946691

Luminaire Tested: **GALN-SB2B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946691
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-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 9535 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

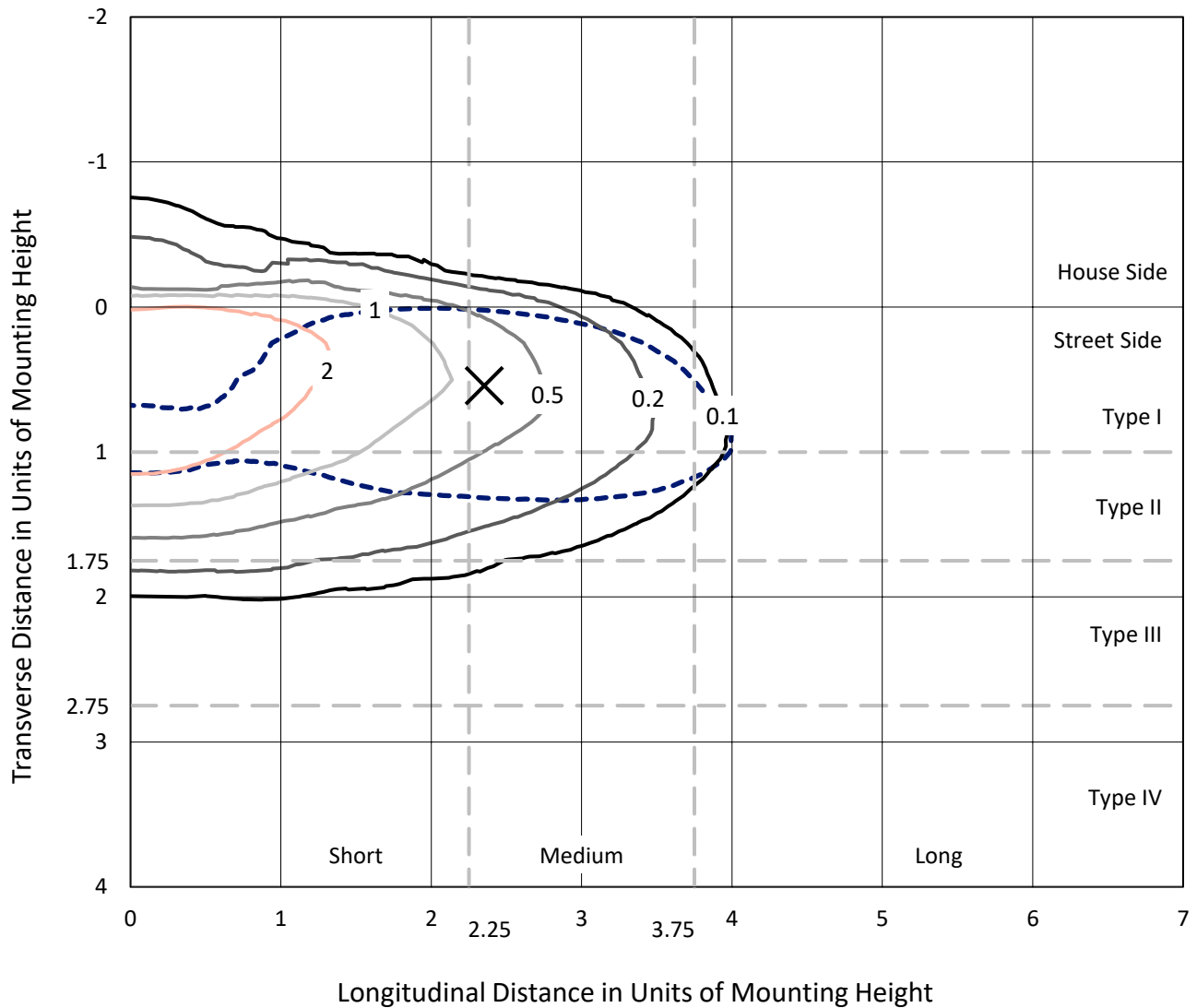
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

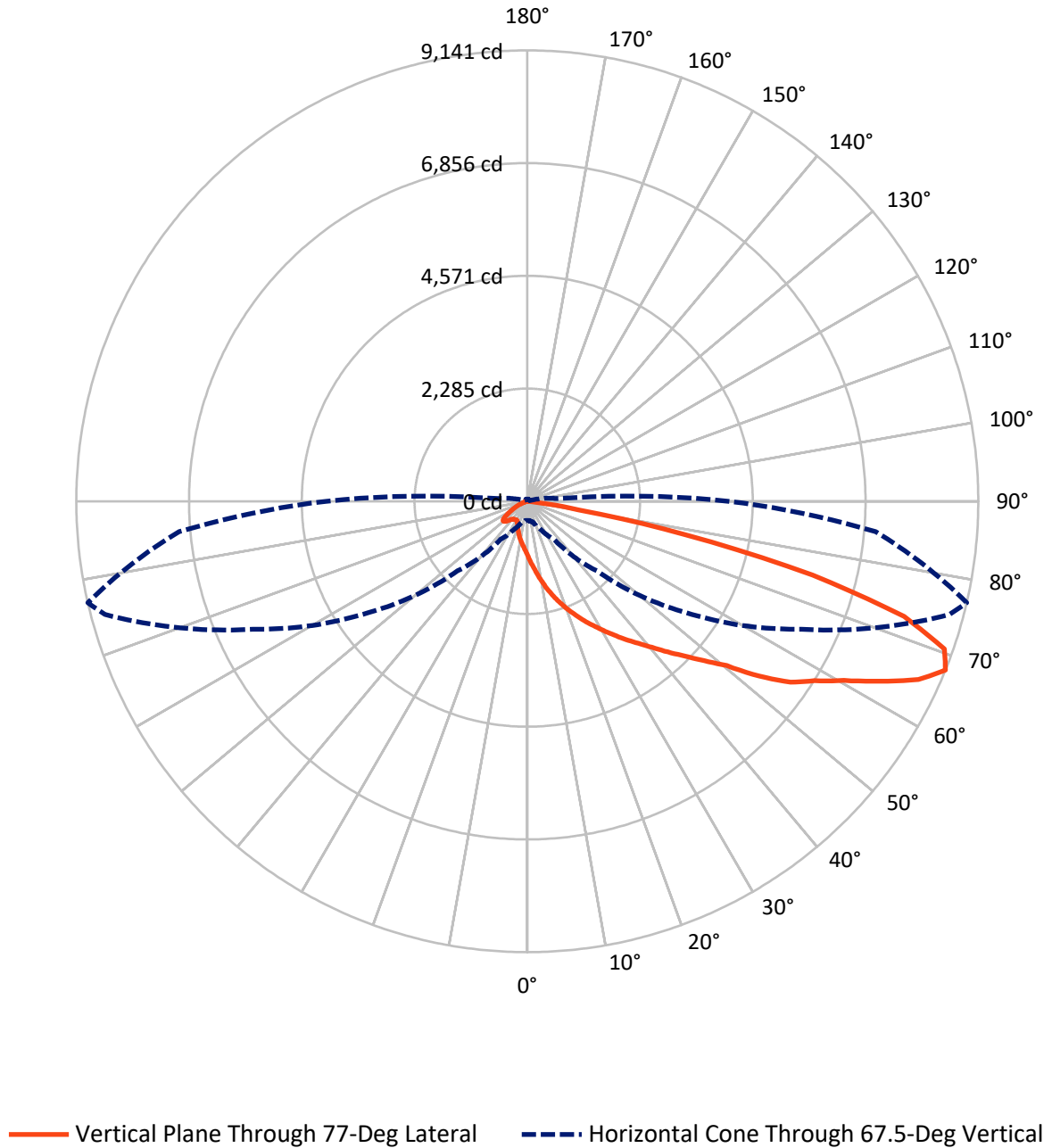
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	701.5	0.0	701.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	8833.5	0.0	8833.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	9535.0	0.0	9535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.2
10°-20°	393.0	4.1
20°-30°	758.4	8.0
30°-40°	1316.6	13.8
40°-50°	1911.6	20.0
50°-60°	2195.2	23.0
60°-70°	1905.9	20.0
70°-80°	897.7	9.4
80°-90°	44.4	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°	9535.0	100.0
0°-180°	9535.0	100.0

Coefficient of Utilization



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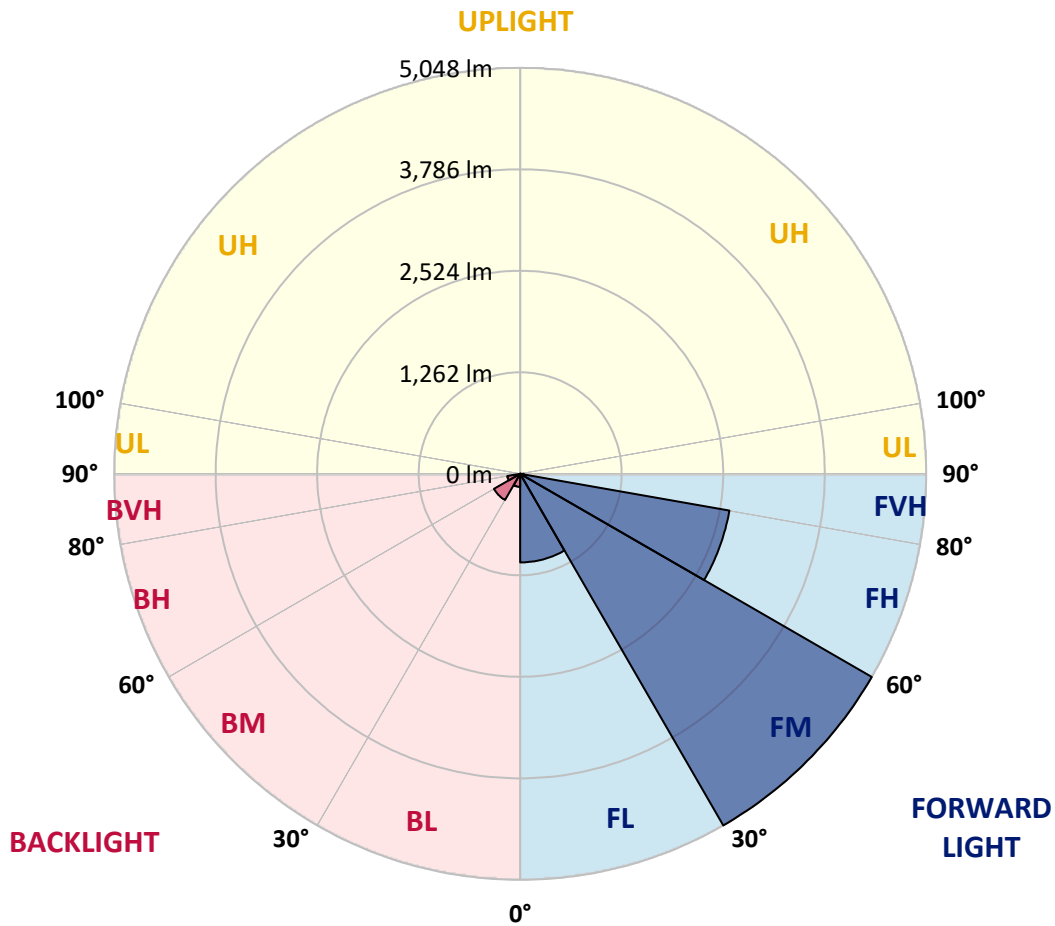
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.2	11.5			
FM (30°-60°)	5047.6	52.9			
FH (60°-80°)	2641.2	27.7			G2/5000
FVH (80°-90°)	43.6	0.5			G1/100
BL (0°-30°)	162.4	1.7	B1/500		
BM (30°-60°)	375.9	3.9	B1/1000		
BH (60°-80°)	162.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	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°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
2.5°	1522.3	1531.8	1518.1	1492.1	1453.0	1427.5	1365.4	1306.8	1241.6	1220.9
5°	1855.6	1863.9	1848.5	1820.1	1768.0	1718.3	1636.6	1514.0	1386.7	1345.8
7.5°	2102.5	2107.3	2101.4	2075.3	2025.6	1969.3	1878.1	1733.1	1544.2	1499.2
10°	2280.2	2295.6	2293.8	2283.7	2250.6	2205.0	2107.9	1942.7	1720.6	1662.6
12.5°	2398.0	2415.2	2425.2	2447.7	2446.0	2416.9	2331.7	2157.0	1896.5	1828.4
15°	2432.3	2450.7	2489.2	2541.3	2587.5	2602.3	2542.5	2367.2	2090.1	2003.1
17.5°	2412.8	2441.2	2487.4	2569.7	2671.0	2737.9	2731.3	2570.3	2266.0	2166.5
20°	2456.0	2483.3	2519.4	2588.7	2706.5	2827.9	2876.4	2764.5	2440.6	2336.4
22.5°	2695.2	2690.5	2694.0	2705.3	2775.8	2896.0	2996.0	2940.9	2613.5	2506.9
25°	3074.2	3052.9	3016.7	2955.8	2938.0	2996.0	3100.2	3097.3	2795.9	2681.6
27.5°	3508.8	3505.2	3420.5	3273.7	3190.8	3168.3	3218.1	3249.4	2976.5	2854.5
30°	3925.0	3934.5	3820.2	3656.8	3504.6	3416.4	3371.4	3393.9	3160.0	3041.0
32.5°	4287.4	4297.4	4173.1	3981.9	3793.6	3687.0	3592.3	3536.6	3360.2	3230.5
35°	4593.5	4603.6	4460.9	4249.5	4048.8	3952.3	3845.1	3692.9	3561.5	3440.7
37.5°	4867.0	4864.1	4672.8	4459.7	4262.5	4186.1	4129.9	3885.3	3768.7	3652.1
40°	5028.7	5041.1	4877.7	4642.6	4451.4	4395.7	4392.2	4124.0	4007.9	3894.8
42.5°	5076.1	5098.0	4979.5	4786.5	4613.0	4552.6	4645.6	4382.1	4286.2	4176.1
45°	4990.8	5012.1	4958.2	4824.4	4723.2	4684.1	4863.5	4649.7	4583.4	4474.5
47.5°	4742.1	4768.8	4781.8	4753.4	4752.2	4791.8	5058.9	4931.6	4936.3	4825.0
50°	4260.7	4305.7	4425.3	4526.0	4681.7	4877.1	5248.9	5237.1	5334.2	5238.3
52.5°	3385.6	3449.6	3861.7	4137.0	4486.9	4861.1	5458.0	5727.4	6032.3	5892.0
55°	2720.7	2720.7	3055.8	3570.9	4106.8	4755.7	5549.1	6045.9	6507.7	6474.6
57.5°	2218.0	2244.6	2458.4	2913.7	3556.7	4504.7	5605.4	6246.0	6890.8	6866.6
60°	1368.9	1426.4	1830.2	2279.6	2930.9	4057.6	5569.9	6448.5	7355.6	7375.2
62.5°	770.9	792.2	972.2	1640.1	2279.0	3456.7	5298.1	6561.6	7950.1	8033.0
65°	532.3	543.0	612.2	1020.8	1579.7	2752.1	4767.0	6491.2	8545.7	8713.3
67.5°	386.6	392.0	435.2	623.5	937.3	1995.4	3934.5	6135.9	8861.3	9141.4
70°	297.2	300.8	332.2	409.7	553.6	1231.6	2857.5	5429.5	8632.8	8967.3
72.5°	241.6	245.1	269.4	303.2	367.1	728.3	1731.9	4409.4	7623.9	7985.0
75°	203.7	208.4	230.3	252.2	287.8	467.8	812.4	3070.6	5733.3	5970.1
77.5°	113.1	104.2	187.1	209.0	242.8	296.0	380.1	1807.1	3210.9	3276.7
80°	70.5	72.8	148.6	168.2	186.5	149.2	174.1	695.7	1113.1	1057.5
82.5°	4.1	9.5	114.3	121.4	127.9	63.9	65.7	236.2	268.2	246.3
85°	0.0	0.0	52.1	42.0	44.4	18.4	18.9	55.1	36.1	39.1
87.5°	0.0	0.0	0.0	1.2	0.0	1.8	3.6	4.7	1.8	2.4
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°
1099.5	0°	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5	1099.5
1155.8	2.5°	1114.3	1072.9	988.8	906.5	839.6	777.4	733.0	691.0	669.7	668.5
1230.4	5°	1148.1	1061.0	892.9	744.3	624.7	528.7	466.6	422.2	399.7	392.0
1322.2	7.5°	1195.4	1064.6	808.8	602.2	461.2	378.9	343.4	329.2	324.5	319.1
1425.8	10°	1255.2	1072.9	733.6	484.9	363.5	322.1	307.9	302.0	298.4	294.9
1542.4	12.5°	1322.2	1080.6	659.0	402.6	319.7	298.4	288.4	281.2	276.5	272.4
1662.0	15°	1387.3	1085.3	581.4	345.2	297.2	280.1	269.4	261.7	255.2	250.5
1779.3	17.5°	1451.8	1091.8	508.6	310.9	278.9	261.7	251.0	241.6	236.2	230.9
1902.4	20°	1523.5	1090.6	439.9	286.6	260.5	243.4	232.1	223.2	217.9	212.0
2032.7	22.5°	1589.8	1084.7	379.5	265.9	241.6	225.0	212.6	203.7	198.4	193.6
2165.9	25°	1666.2	1080.0	329.2	246.9	223.8	207.2	193.6	185.3	179.4	175.3
2299.7	27.5°	1739.6	1072.9	292.5	229.7	206.6	190.7	177.6	168.2	162.8	159.9
2437.7	30°	1811.8	1071.1	278.9	213.2	191.2	175.3	162.2	153.4	149.2	148.0
2589.2	32.5°	1898.9	1075.8	284.8	207.2	177.0	161.1	148.6	142.1	138.0	138.0
2758.0	35°	1991.8	1074.7	293.7	212.6	167.6	146.8	137.4	133.2	129.1	129.1
2945.1	37.5°	2108.5	1076.4	300.8	221.4	164.0	135.0	129.7	124.3	122.0	122.0
3150.0	40°	2282.5	1135.1	297.2	229.1	162.8	126.7	116.1	114.3	112.5	112.5
3381.5	42.5°	2495.7	1262.4	302.0	229.7	162.2	120.8	106.6	110.1	106.0	105.4
3642.6	45°	2729.0	1401.5	332.2	217.3	161.6	117.8	101.8	106.0	99.5	99.5
3945.1	47.5°	2960.5	1539.5	363.0	199.5	159.9	117.2	97.7	95.3	93.6	94.1
4339.5	50°	3279.6	1652.0	374.8	175.3	155.7	116.1	90.0	90.6	89.4	90.6
4895.5	52.5°	3627.2	1675.6	360.6	148.0	143.9	112.5	84.7	87.0	86.4	87.6
5286.8	55°	3843.9	1650.2	297.8	123.2	125.5	98.3	79.3	84.1	84.1	84.1
5669.3	57.5°	4067.7	1541.8	211.4	100.1	104.2	80.5	74.6	81.1	80.5	79.9
6130.0	60°	4228.8	1366.6	139.1	82.3	82.9	66.3	69.3	76.4	75.8	72.8
6604.9	62.5°	4349.0	1172.9	89.4	69.9	63.4	59.8	63.4	69.3	66.9	60.4
7007.5	65°	4335.3	904.7	68.7	59.8	52.1	52.1	55.1	60.4	53.3	42.6
7084.5	67.5°	4082.5	612.2	56.8	50.3	43.8	43.2	45.6	50.3	45.6	36.1
6690.1	70°	3630.7	400.3	45.6	39.1	34.9	32.0	36.7	43.2	38.5	29.0
5695.4	72.5°	2946.9	243.9	34.3	28.4	25.5	20.7	29.0	35.5	30.8	21.3
3960.5	75°	1906.6	124.3	23.7	18.4	13.6	12.4	21.3	26.6	21.3	13.0
1757.3	77.5°	729.5	52.1	13.0	8.3	7.1	5.9	11.8	16.0	8.9	3.0
340.5	80°	140.3	21.9	6.5	4.1	3.6	2.4	1.8	1.2	0.0	0.0
60.4	82.5°	24.3	7.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
11.8	85°	8.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.1	87.5°	3.0	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°
1099.5
667.3
390.8
318.0
293.7
271.2
249.9
230.3
211.4
193.0
174.7
159.9
147.4
138.0
129.1
122.0
112.5
104.8
99.5
94.1
90.6
87.6
84.1
79.9
72.8
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