

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: P949043

Luminaire Tested: **GALN-SB3D-930-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949043  
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-SB3D-930-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

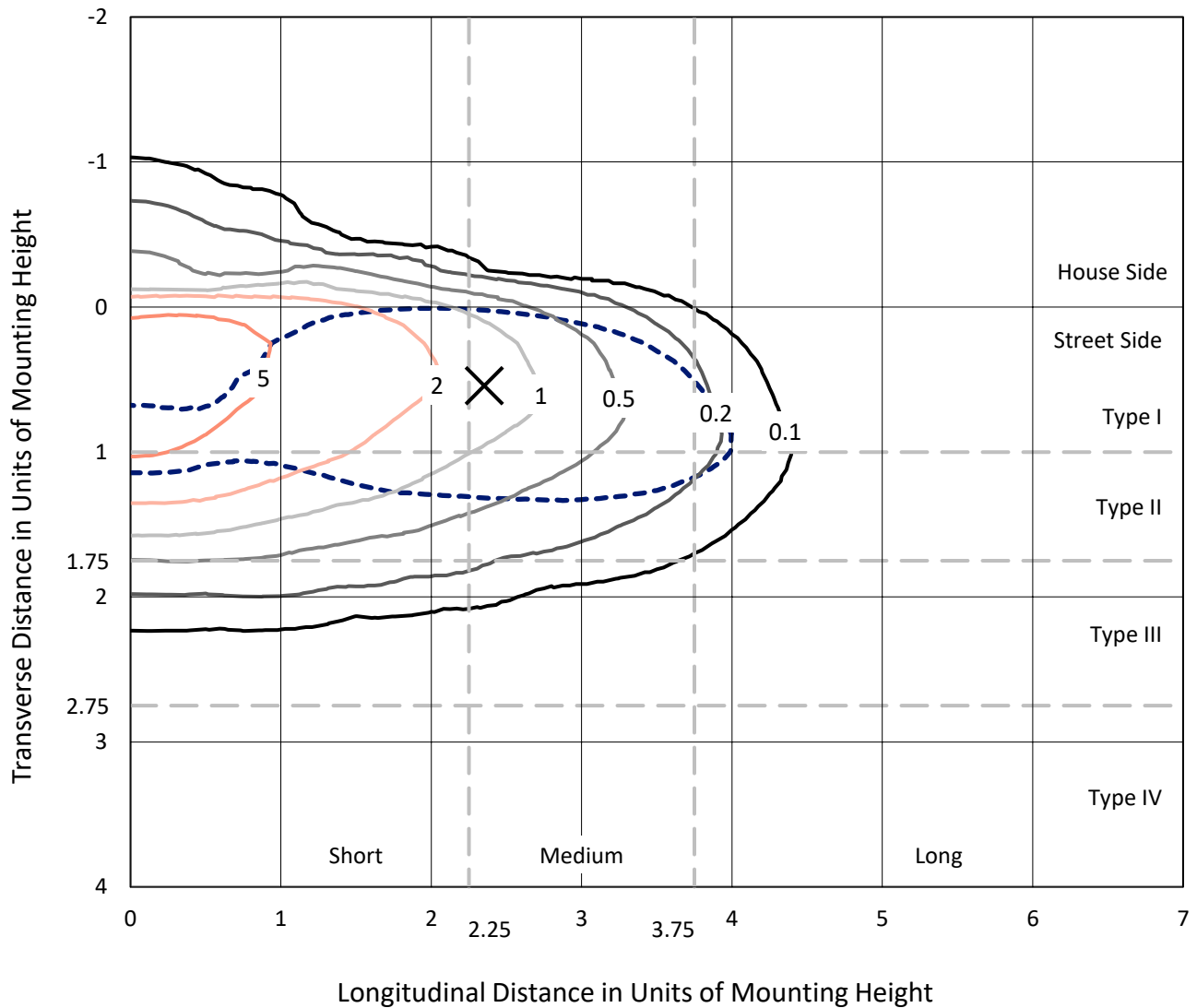
Lumens per Lamp: N/A  
Luminaire Lumens: 17983 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

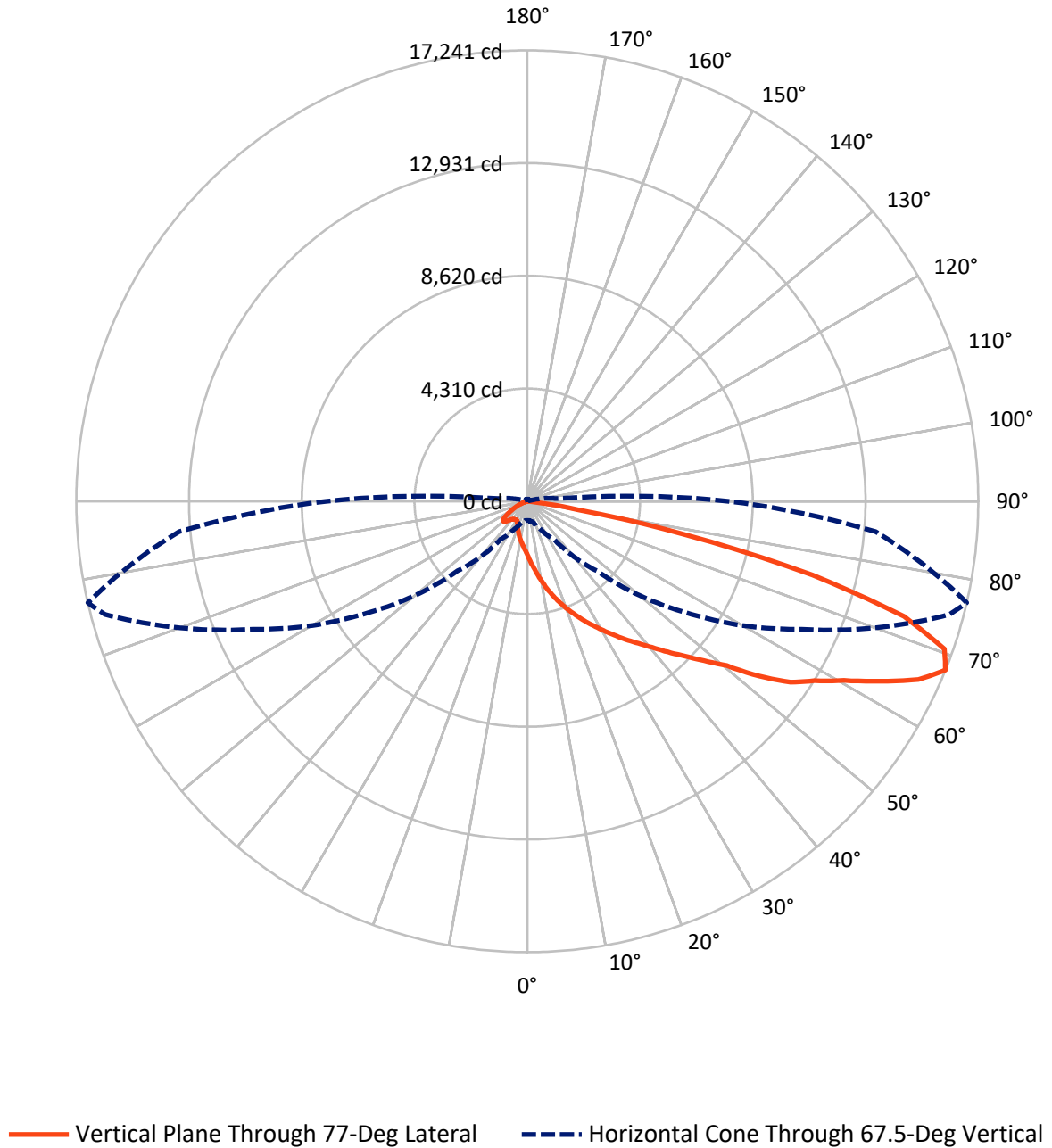
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1323.0	0.0	1323.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	16660.0	0.0	16660.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	17983.0	0.0	17983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	1.2
10°-20°	741.2	4.1
20°-30°	1430.3	8.0
30°-40°	2483.1	13.8
40°-50°	3605.3	20.0
50°-60°	4140.2	23.0
60°-70°	3594.5	20.0
70°-80°	1693.0	9.4
80°-90°	83.7	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°	17983.0	100.0
0°-180°	17983.0	100.0

**Coefficient of Utilization**



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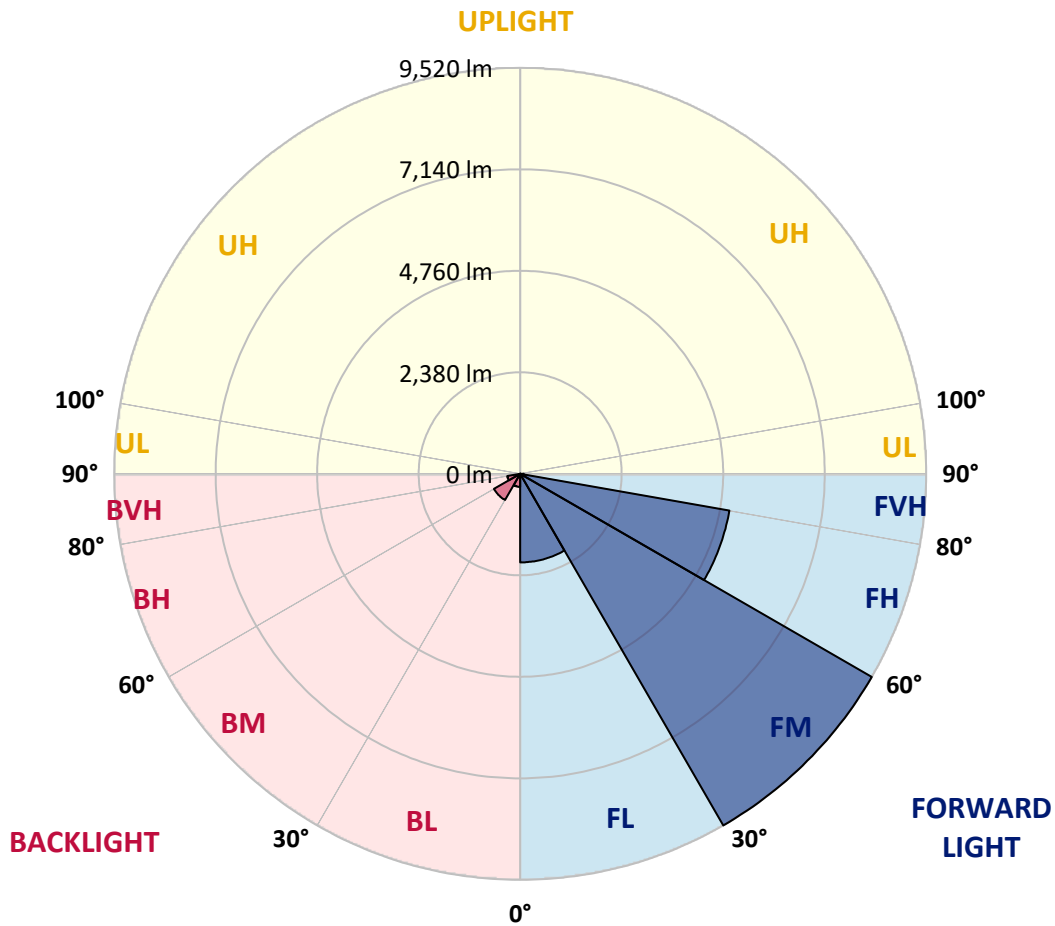
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.8	11.5			
FM (30°-60°)	9519.7	52.9			
FH (60°-80°)	4981.2	27.7			G2/5000
FVH (80°-90°)	82.2	0.5			G1/100
BL (0°-30°)	306.3	1.7	B1/500		
BM (30°-60°)	708.9	3.9	B1/1000		
BH (60°-80°)	306.3	1.7	B1/500		G1/500
BVH (80°-90°)	1.5	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°	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7
2.5°	2871.0	2888.9	2863.2	2814.1	2740.4	2692.4	2575.1	2464.5	2341.7	2302.6
5°	3499.7	3515.4	3486.3	3432.7	3334.5	3240.7	3086.5	2855.4	2615.3	2538.2
7.5°	3965.4	3974.3	3963.2	3914.0	3820.2	3714.1	3542.2	3268.6	2912.3	2827.5
10°	4300.4	4329.4	4326.1	4307.1	4244.6	4158.6	3975.4	3663.9	3245.1	3135.7
12.5°	4522.6	4555.0	4574.0	4616.4	4613.1	4558.4	4397.5	4068.1	3576.8	3448.4
15°	4587.4	4622.0	4694.6	4792.9	4880.0	4907.9	4795.1	4464.6	3941.9	3777.8
17.5°	4550.5	4604.1	4691.2	4846.5	5037.4	5163.6	5151.3	4847.6	4273.6	4086.0
20°	4632.1	4683.4	4751.5	4882.2	5104.4	5333.3	5424.9	5213.9	4603.0	4406.5
22.5°	5083.2	5074.3	5081.0	5102.2	5235.1	5461.8	5650.5	5546.6	4929.1	4728.1
25°	5797.9	5757.7	5689.6	5574.5	5541.0	5650.5	5847.0	5841.4	5273.0	5057.5
27.5°	6617.5	6610.8	6451.2	6174.2	6017.9	5975.4	6069.2	6128.4	5613.6	5383.6
30°	7402.6	7420.4	7204.9	6896.7	6609.7	6443.3	6358.5	6400.9	5959.8	5735.4
32.5°	8086.0	8105.0	7870.5	7509.8	7154.7	6953.7	6775.0	6670.0	6337.2	6092.7
35°	8663.3	8682.3	8413.2	8014.5	7636.0	7453.9	7251.8	6964.8	6716.9	6489.1
37.5°	9179.2	9173.7	8813.0	8411.0	8039.1	7895.0	7789.0	7327.8	7107.8	6887.8
40°	9484.1	9507.5	9199.3	8756.0	8395.3	8290.4	8283.7	7777.8	7558.9	7345.6
42.5°	9573.4	9614.8	9391.4	9027.4	8700.2	8586.3	8761.6	8264.7	8083.8	7876.1
45°	9412.6	9452.8	9351.2	9098.8	8907.9	8834.2	9172.5	8769.4	8644.3	8438.9
47.5°	8943.6	8993.9	9018.4	8964.8	8962.6	9037.4	9541.0	9301.0	9309.9	9100.0
50°	8035.7	8120.6	8346.2	8536.0	8829.7	9198.2	9899.5	9877.2	10060.3	9879.4
52.5°	6385.3	6505.9	7283.1	7802.4	8462.3	9168.1	10293.7	10801.8	11376.9	11112.2
55°	5131.2	5131.2	5763.3	6734.8	7745.4	8969.3	10465.7	11402.6	12273.6	12211.1
57.5°	4183.1	4233.4	4636.5	5495.3	6708.0	8495.8	10571.8	11780.0	12996.1	12950.3
60°	2581.8	2690.1	3451.7	4299.3	5527.6	7652.7	10504.8	12161.9	13872.7	13909.6
62.5°	1453.9	1494.1	1833.6	3093.2	4298.2	6519.3	9992.2	12375.2	14993.9	15150.2
65°	1003.9	1024.0	1154.7	1925.2	2979.3	5190.4	8990.5	12242.3	16117.3	16433.3
67.5°	729.2	739.3	820.8	1175.9	1767.7	3763.3	7420.4	11572.3	16712.5	17240.7
70°	560.6	567.3	626.5	772.8	1044.1	2322.7	5389.2	10240.1	16281.4	16912.4
72.5°	455.6	462.3	508.1	571.7	692.4	1373.5	3266.3	8316.0	14378.6	15059.8
75°	384.1	393.1	434.4	475.7	542.7	882.2	1532.1	5791.2	10813.0	11259.6
77.5°	213.3	196.5	352.9	394.2	457.8	558.3	716.9	3408.2	6055.8	6179.8
80°	132.9	137.4	280.3	317.1	351.8	281.4	328.3	1312.1	2099.4	1994.4
82.5°	7.8	17.9	215.5	228.9	241.2	120.6	124.0	445.6	505.9	464.5
85°	0.0	0.0	98.3	79.3	83.8	34.6	35.7	103.9	68.1	73.7
87.5°	0.0	0.0	0.0	2.2	0.0	3.4	6.7	8.9	3.4	4.5
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°
2073.7	0°	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7	2073.7
2179.8	2.5°	2101.6	2023.5	1864.9	1709.7	1583.5	1466.2	1382.5	1303.2	1263.0	1260.7
2320.5	5°	2165.3	2001.1	1684.0	1403.7	1178.1	997.2	880.0	796.2	753.8	739.3
2493.6	7.5°	2254.6	2007.8	1525.4	1135.7	869.9	714.7	647.7	620.9	611.9	601.9
2689.0	10°	2367.4	2023.5	1383.6	914.6	685.7	607.5	580.7	569.5	562.8	556.1
2909.0	12.5°	2493.6	2038.0	1242.9	759.4	603.0	562.8	543.8	530.4	521.5	513.7
3134.6	15°	2616.4	2046.9	1096.6	651.0	560.6	528.2	508.1	493.6	481.3	472.4
3355.7	17.5°	2738.1	2059.2	959.2	586.3	526.0	493.6	473.5	455.6	445.6	435.5
3587.9	20°	2873.3	2057.0	829.7	540.5	491.3	459.0	437.7	421.0	410.9	399.8
3833.6	22.5°	2998.3	2045.8	715.8	501.4	455.6	424.3	400.9	384.1	374.1	365.2
4084.9	25°	3142.4	2036.9	620.9	465.7	422.1	390.8	365.2	349.5	338.4	330.5
4337.2	27.5°	3280.9	2023.5	551.6	433.3	389.7	359.6	335.0	317.1	307.1	301.5
4597.4	30°	3417.1	2020.1	526.0	402.0	360.7	330.5	306.0	289.2	281.4	279.2
4883.3	32.5°	3581.2	2029.0	537.1	390.8	333.9	303.7	280.3	268.0	260.2	260.2
5201.6	35°	3756.6	2026.8	553.9	400.9	316.0	276.9	259.1	251.3	243.4	243.4
5554.4	37.5°	3976.6	2030.2	567.3	417.6	309.3	254.6	244.6	234.5	230.0	230.0
5940.8	40°	4304.9	2140.7	560.6	432.2	307.1	239.0	218.9	215.5	212.2	212.2
6377.5	42.5°	4706.9	2380.8	569.5	433.3	306.0	227.8	201.0	207.7	199.9	198.8
6869.9	45°	5146.9	2643.2	626.5	409.8	304.9	222.2	192.1	199.9	187.6	187.6
7440.5	47.5°	5583.5	2903.4	684.5	376.3	301.5	221.1	184.3	179.8	176.4	177.6
8184.3	50°	6185.4	3115.6	706.9	330.5	293.7	218.9	169.7	170.9	168.6	170.9
9232.8	52.5°	6840.9	3160.2	680.1	279.2	271.4	212.2	159.7	164.2	163.0	165.3
9971.0	55°	7249.6	3112.2	561.7	232.3	236.7	185.4	149.6	158.6	158.6	158.6
10692.4	57.5°	7671.7	2907.9	398.7	188.7	196.5	151.9	140.7	153.0	151.9	150.8
11561.2	60°	7975.4	2577.3	262.4	155.2	156.3	125.1	130.7	144.1	142.9	137.4
12456.7	62.5°	8202.1	2212.2	168.6	131.8	119.5	112.8	119.5	130.7	126.2	113.9
13216.1	65°	8176.4	1706.3	129.5	112.8	98.3	98.3	103.9	113.9	100.5	80.4
13361.3	67.5°	7699.6	1154.7	107.2	94.9	82.6	81.5	86.0	94.9	86.0	68.1
12617.5	70°	6847.6	754.9	86.0	73.7	65.9	60.3	69.2	81.5	72.6	54.7
10741.5	72.5°	5557.8	460.1	64.8	53.6	48.0	39.1	54.7	67.0	58.1	40.2
7469.6	75°	3595.8	234.5	44.7	34.6	25.7	23.5	40.2	50.3	40.2	24.6
3314.4	77.5°	1375.8	98.3	24.6	15.6	13.4	11.2	22.3	30.2	16.8	5.6
642.1	80°	264.7	41.3	12.3	7.8	6.7	4.5	3.4	2.2	0.0	0.0
113.9	82.5°	45.8	13.4	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
22.3	85°	15.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.8	87.5°	5.6	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°  
2073.7  
1258.5  
737.0  
599.7  
553.9  
511.4  
471.2  
434.4  
398.7  
364.0  
329.4  
301.5  
278.1  
260.2  
243.4  
230.0  
212.2  
197.7  
187.6  
177.6  
170.9  
165.3  
158.6  
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