

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: P954923

Luminaire Tested: **GALN-SB8A-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954923  
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-SB8A-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

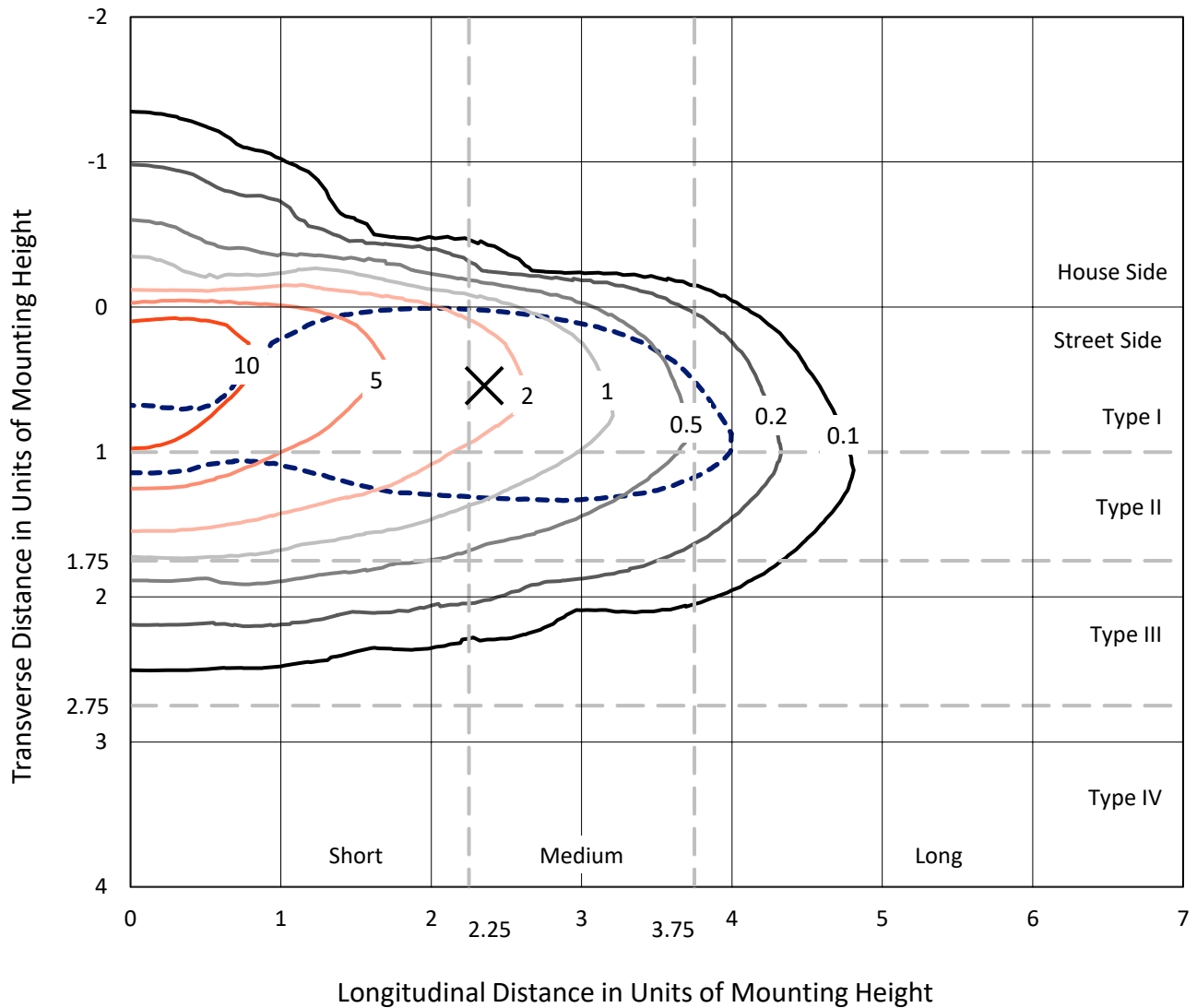
Lumens per Lamp: N/A  
Luminaire Lumens: 32492 lumens  
Efficiency: N/A  
Efficacy: 143.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

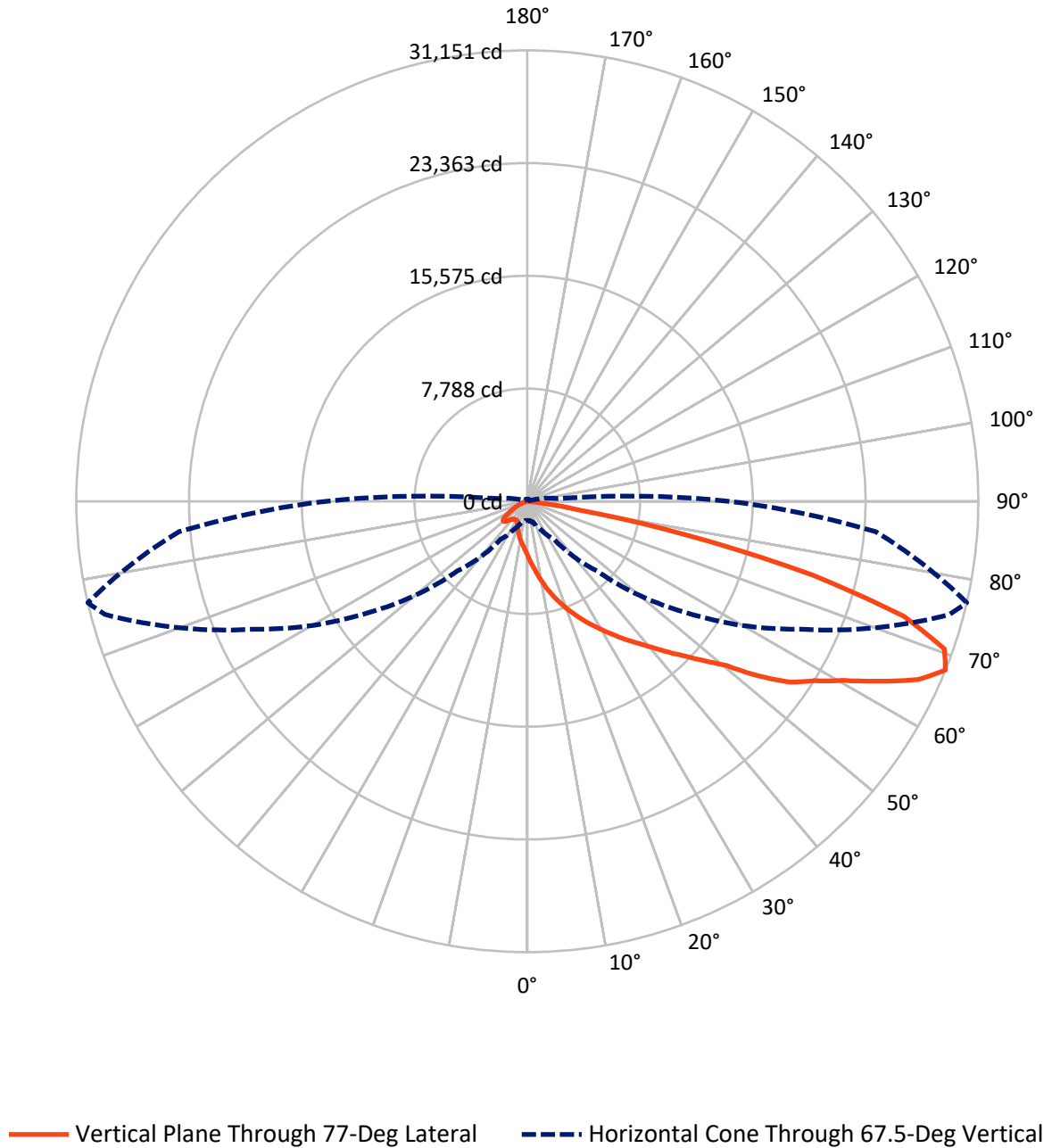
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	2390.5	0.0	2390.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	30101.5	0.0	30101.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	32492.0	0.0	32492.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.4	1.2
10°-20°	1339.2	4.1
20°-30°	2584.3	8.0
30°-40°	4486.5	13.8
40°-50°	6514.1	20.0
50°-60°	7480.6	23.0
60°-70°	6494.6	20.0
70°-80°	3059.0	9.4
80°-90°	151.3	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°	32492.0	100.0
0°-180°	32492.0	100.0

**Coefficient of Utilization**



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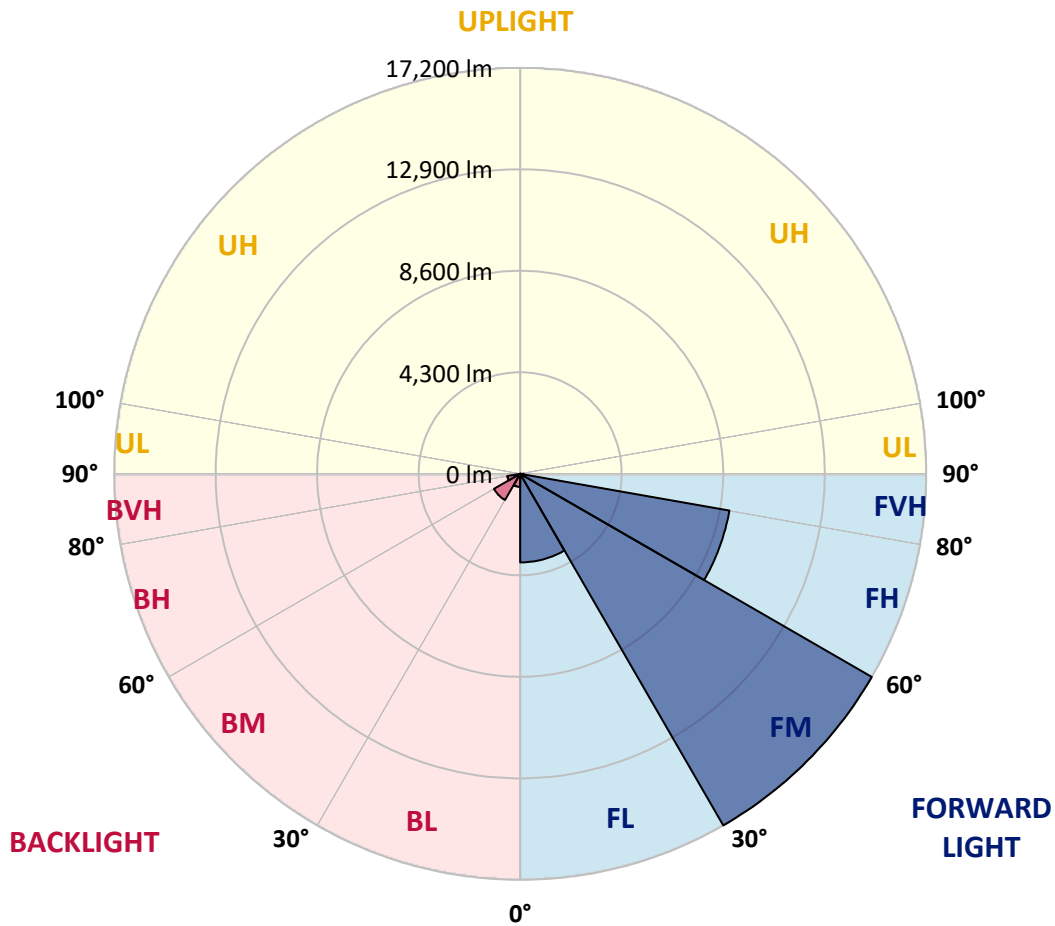
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3752.5	11.5			
FM (30°-60°)	17200.4	52.9			
FH (60°-80°)	9000.2	27.7			G4/12000
FVH (80°-90°)	148.5	0.5			G2/225
BL (0°-30°)	553.4	1.7	B2/1000		
BM (30°-60°)	1280.8	3.9	B2/2500		
BH (60°-80°)	553.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8
2.5°	5187.4	5219.7	5173.3	5084.5	4951.4	4864.6	4652.7	4453.0	4231.0	4160.4
5°	6323.4	6351.6	6299.2	6202.3	6024.7	5855.3	5576.8	5159.2	4725.4	4586.2
7.5°	7164.7	7180.9	7160.7	7071.9	6902.4	6710.8	6400.0	5905.7	5262.1	5108.7
10°	7770.0	7822.5	7816.4	7782.1	7669.1	7513.8	7182.9	6620.0	5863.3	5665.6
12.5°	8171.5	8230.1	8264.4	8341.0	8335.0	8236.1	7945.6	7350.4	6462.6	6230.6
15°	8288.6	8351.1	8482.3	8659.8	8817.2	8867.6	8663.9	8066.6	7122.4	6825.8
17.5°	8222.0	8318.8	8476.2	8756.7	9101.7	9329.7	9307.5	8758.7	7721.6	7382.6
20°	8369.3	8462.1	8585.2	8821.2	9222.7	9636.4	9801.8	9420.5	8316.8	7961.7
22.5°	9184.4	9168.3	9180.4	9218.7	9458.8	9868.4	10209.4	10021.7	8906.0	8542.8
25°	10475.7	10403.1	10280.0	10072.2	10011.7	10209.4	10564.5	10554.4	9527.4	9138.0
27.5°	11956.7	11944.6	11656.1	11155.7	10873.2	10796.5	10966.0	11072.9	10142.8	9727.2
30°	13375.1	13407.4	13018.0	12461.1	11942.6	11641.9	11488.6	11565.3	10768.3	10362.7
32.5°	14609.9	14644.2	14220.5	13568.8	12927.2	12564.0	12241.2	12051.5	11450.3	11008.4
35°	15653.1	15687.4	15201.1	14480.8	13796.8	13467.9	13102.7	12584.2	12136.3	11724.7
37.5°	16585.2	16575.1	15923.4	15197.1	14525.2	14264.9	14073.2	13239.9	12842.4	12445.0
40°	17136.0	17178.4	16621.5	15820.5	15168.8	14979.2	14967.0	14053.0	13657.6	13272.2
42.5°	17297.4	17372.1	16968.6	16310.8	15719.6	15513.8	15830.6	14932.7	14605.9	14230.6
45°	17006.9	17079.5	16895.9	16439.9	16094.9	15961.8	16573.1	15844.7	15618.8	15247.5
47.5°	16159.5	16250.3	16294.7	16197.8	16193.8	16329.0	17238.9	16805.1	16821.3	16442.0
50°	14519.1	14672.5	15080.0	15423.0	15953.7	16619.5	17886.6	17846.3	18177.2	17850.3
52.5°	11537.0	11754.9	13159.2	14097.4	15289.9	16565.0	18598.8	19516.9	20556.0	20077.8
55°	9271.2	9271.2	10413.2	12168.5	13994.5	16205.9	18909.6	20602.4	22176.2	22063.2
57.5°	7558.2	7649.0	8377.3	9928.9	12120.1	15350.4	19101.2	21284.4	23481.6	23398.9
60°	4664.8	4860.6	6236.6	7768.0	9987.4	13827.1	18980.2	21974.4	25065.5	25132.0
62.5°	2627.0	2699.6	3313.0	5588.9	7766.0	11779.1	18054.1	22359.8	27091.2	27373.7
65°	1813.9	1850.2	2086.3	3478.5	5383.1	9378.1	16244.2	22119.7	29121.0	29692.0
67.5°	1317.5	1335.7	1483.0	2124.6	3194.0	6799.5	13407.4	20909.1	30196.4	31150.7
70°	1012.9	1025.0	1131.9	1396.2	1886.5	4196.7	9737.3	18502.0	29417.6	30557.5
72.5°	823.2	835.3	918.0	1033.0	1251.0	2481.7	5901.7	15025.6	25979.5	27210.2
75°	694.1	710.2	784.9	859.5	980.6	1594.0	2768.2	10463.6	19537.1	20344.1
77.5°	385.4	355.1	637.6	712.2	827.2	1008.8	1295.3	6157.9	10941.8	11165.8
80°	240.1	248.2	506.4	573.0	635.6	508.5	593.2	2370.8	3793.2	3603.6
82.5°	14.1	32.3	389.4	413.6	435.8	217.9	224.0	805.0	914.0	839.3
85°	0.0	0.0	177.6	143.3	151.3	62.5	64.6	187.6	123.1	133.2
87.5°	0.0	0.0	0.0	4.0	0.0	6.1	12.1	16.1	6.1	8.1
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°
3746.8	0°	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8	3746.8
3938.5	2.5°	3797.2	3656.0	3369.5	3089.0	2861.0	2649.2	2497.9	2354.6	2282.0	2277.9
4192.7	5°	3912.3	3615.7	3042.6	2536.2	2128.6	1801.8	1589.9	1438.6	1361.9	1335.7
4505.4	7.5°	4073.7	3627.8	2756.1	2052.0	1571.8	1291.3	1170.2	1121.8	1105.7	1087.5
4858.5	10°	4277.5	3656.0	2499.9	1652.5	1238.8	1097.6	1049.2	1029.0	1016.9	1004.8
5256.0	12.5°	4505.4	3682.2	2245.7	1372.0	1089.5	1016.9	982.6	958.4	942.2	928.1
5663.6	15°	4727.4	3698.4	1981.3	1176.3	1012.9	954.4	918.0	891.8	869.6	853.5
6063.1	17.5°	4947.3	3720.6	1733.2	1059.3	950.3	891.8	855.5	823.2	805.0	786.9
6482.8	20°	5191.5	3716.5	1499.1	976.6	887.8	829.3	790.9	760.7	742.5	722.3
6926.6	22.5°	5417.4	3696.4	1293.3	905.9	823.2	766.7	724.3	694.1	675.9	659.8
7380.6	25°	5677.7	3680.2	1121.8	841.4	762.7	706.2	659.8	631.5	611.4	597.2
7836.6	27.5°	5927.9	3656.0	996.7	782.9	704.2	649.7	605.3	573.0	554.9	544.8
8306.7	30°	6174.1	3650.0	950.3	726.4	651.7	597.2	552.8	522.6	508.5	504.4
8823.3	32.5°	6470.7	3666.1	970.5	706.2	603.3	548.8	506.4	484.2	470.1	470.1
9398.3	35°	6787.4	3662.1	1000.8	724.3	571.0	500.4	468.1	454.0	439.9	439.9
10035.9	37.5°	7184.9	3668.1	1025.0	754.6	558.9	460.0	441.9	423.7	415.6	415.6
10734.0	40°	7778.1	3867.9	1012.9	780.8	554.9	431.8	395.5	389.4	383.4	383.4
11522.9	42.5°	8504.5	4301.7	1029.0	782.9	552.8	411.6	363.2	375.3	361.2	359.1
12412.7	45°	9299.4	4775.8	1131.9	740.5	550.8	401.5	347.0	361.2	339.0	339.0
13443.7	47.5°	10088.3	5245.9	1236.8	680.0	544.8	399.5	332.9	324.8	318.8	320.8
14787.5	50°	11175.9	5629.3	1277.2	597.2	530.6	395.5	306.7	308.7	304.7	308.7
16682.1	52.5°	12360.2	5710.0	1228.8	504.4	490.3	383.4	288.5	296.6	294.6	298.6
18015.7	55°	13098.7	5623.2	1014.9	419.7	427.7	334.9	270.4	286.5	286.5	286.5
19319.1	57.5°	13861.4	5254.0	720.3	341.0	355.1	274.4	254.2	276.4	274.4	272.4
20888.9	60°	14410.2	4656.8	474.2	280.5	282.5	226.0	236.1	260.3	258.3	248.2
22507.1	62.5°	14819.8	3997.0	304.7	238.1	215.9	203.8	215.9	236.1	228.0	205.8
23879.1	65°	14773.3	3083.0	234.0	203.8	177.6	177.6	187.6	205.8	181.6	145.3
24141.4	67.5°	13911.8	2086.3	193.7	171.5	149.3	147.3	155.4	171.5	155.4	123.1
22797.6	70°	12372.3	1363.9	155.4	133.2	119.0	109.0	125.1	147.3	131.1	98.9
19407.9	72.5°	10041.9	831.3	117.0	96.8	86.8	70.6	98.9	121.1	104.9	72.6
13496.2	75°	6496.9	423.7	80.7	62.5	46.4	42.4	72.6	90.8	72.6	44.4
5988.4	77.5°	2485.8	177.6	44.4	28.2	24.2	20.2	40.4	54.5	30.3	10.1
1160.2	80°	478.2	74.7	22.2	14.1	12.1	8.1	6.1	4.0	0.0	0.0
205.8	82.5°	82.7	24.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
40.4	85°	28.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.1	87.5°	10.1	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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<u>180°</u>
3746.8
2273.9
1331.7
1083.5
1000.8
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851.5
784.9
720.3
657.8
595.2
544.8
502.4
470.1
439.9
415.6
383.4
357.1
339.0
320.8
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298.6
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