

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: P956351

Luminaire Tested: **GALN-SB9A-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956351  
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-SB9A-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

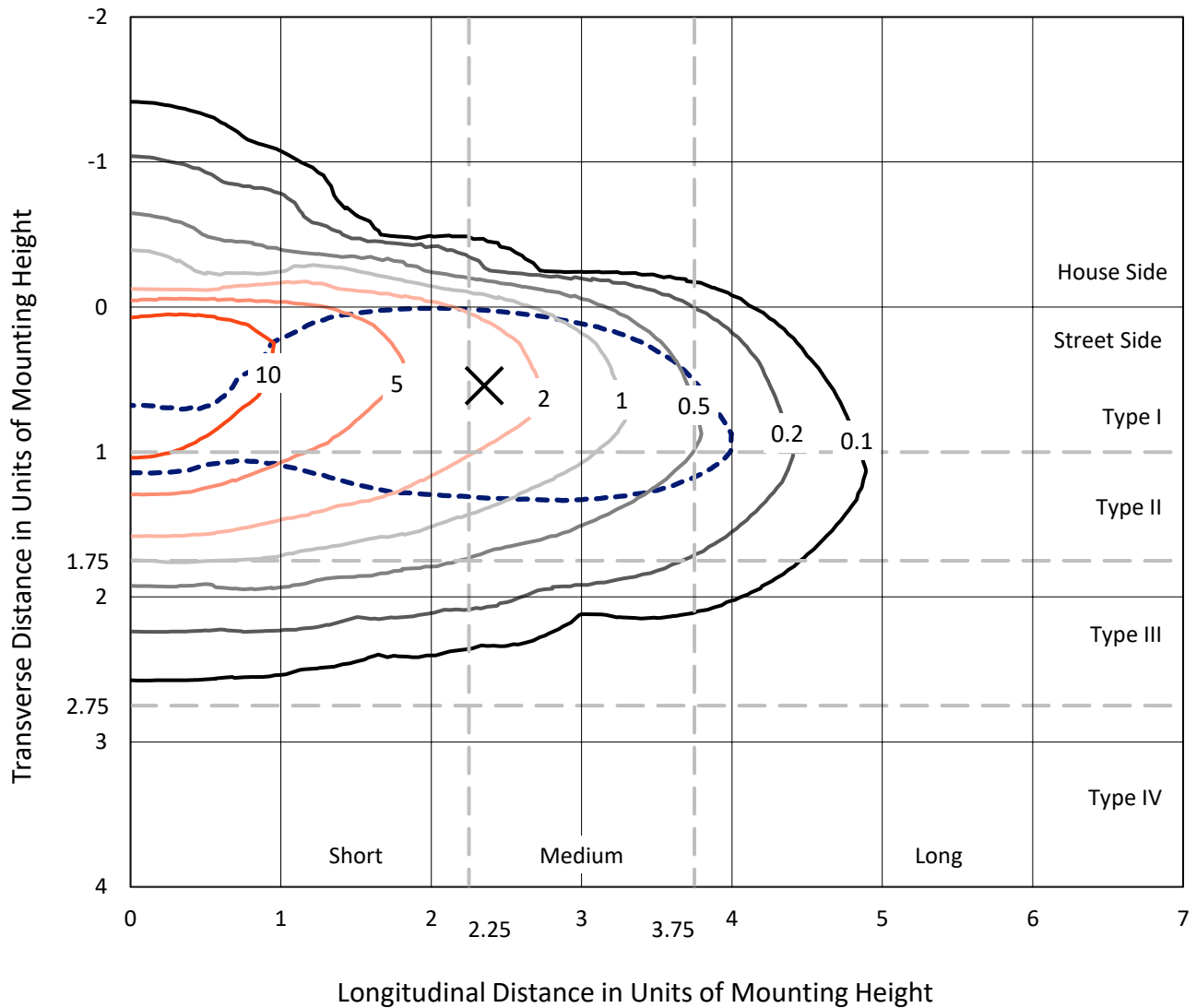
Lumens per Lamp: N/A  
Luminaire Lumens: 36599 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

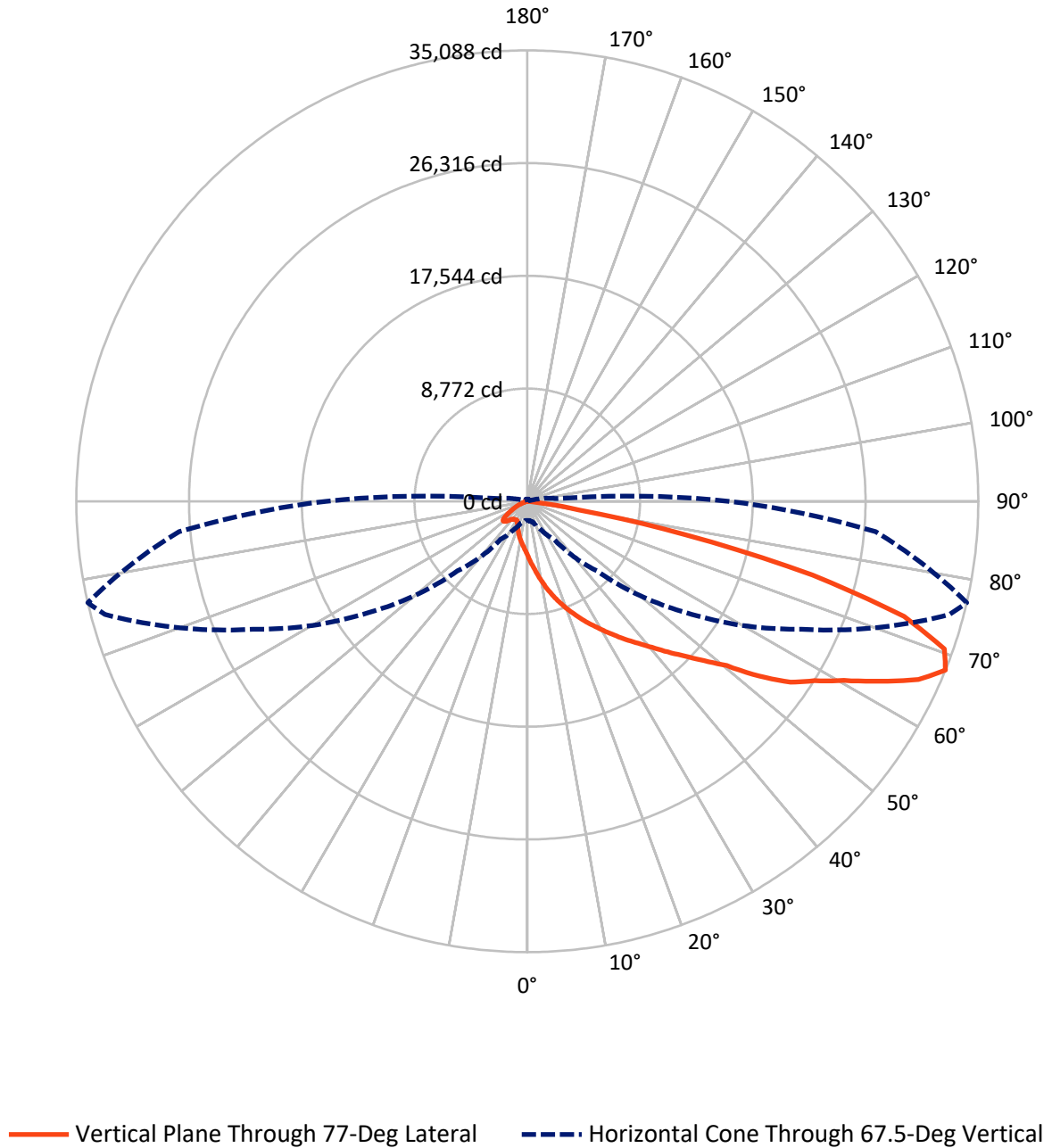
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	2692.6	0.0	2692.6
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	33906.4	0.0	33906.4
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	36599.0	0.0	36599.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.8	1.2
10°-20°	1508.5	4.1
20°-30°	2910.9	8.0
30°-40°	5053.6	13.8
40°-50°	7337.5	20.0
50°-60°	8426.2	23.0
60°-70°	7315.5	20.0
70°-80°	3445.7	9.4
80°-90°	170.4	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°	36599.0	100.0
0°-180°	36599.0	100.0

**Coefficient of Utilization**



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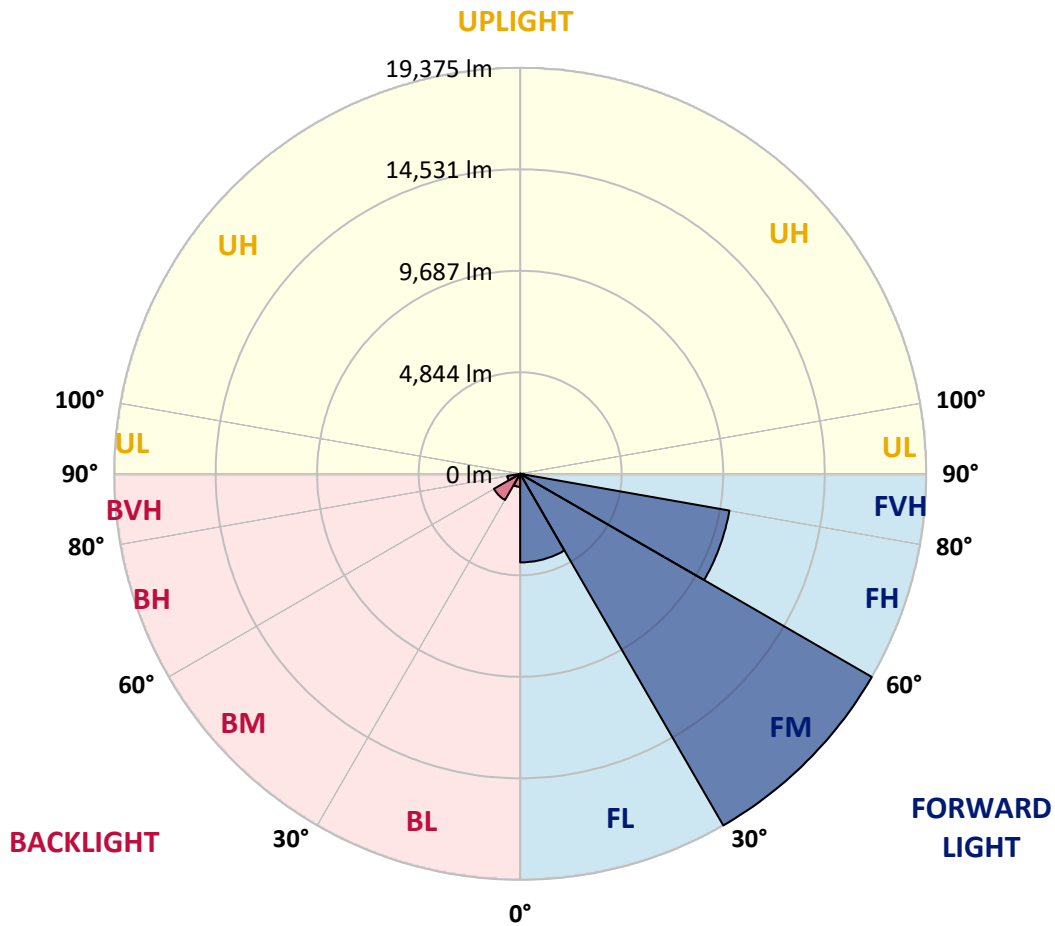
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4226.8	11.5			
FM (30°-60°)	19374.5	52.9			
FH (60°-80°)	10137.8	27.7			G4/12000
FVH (80°-90°)	167.3	0.5			G2/225
BL (0°-30°)	623.4	1.7	B2/1000		
BM (30°-60°)	1442.7	3.9	B2/2500		
BH (60°-80°)	623.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.1	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°	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4
2.5°	5843.1	5879.5	5827.2	5727.2	5577.2	5479.5	5240.8	5015.8	4765.9	4686.3
5°	7122.6	7154.5	7095.4	6986.3	6786.3	6595.4	6281.7	5811.3	5322.7	5165.8
7.5°	8070.4	8088.5	8065.8	7965.8	7774.9	7559.0	7209.0	6652.2	5927.2	5754.5
10°	8752.2	8811.3	8804.4	8765.8	8638.5	8463.5	8090.8	7456.7	6604.5	6381.7
12.5°	9204.4	9270.3	9309.0	9395.3	9388.5	9277.2	8949.9	8279.4	7279.5	7018.1
15°	9336.2	9406.7	9554.4	9754.4	9931.7	9988.5	9759.0	9086.3	8022.6	7688.5
17.5°	9261.2	9370.3	9547.6	9863.5	10252.1	10509.0	10484.0	9865.8	8697.6	8315.8
20°	9427.2	9531.7	9670.3	9936.2	10388.5	10854.4	11040.8	10611.2	9368.1	8968.1
22.5°	10345.3	10327.1	10340.8	10384.0	10654.4	11115.8	11499.9	11288.5	10031.7	9622.6
25°	11799.9	11718.0	11579.4	11345.3	11277.1	11499.9	11899.9	11888.5	10731.7	10293.1
27.5°	13468.0	13454.4	13129.4	12565.8	12247.6	12161.2	12352.1	12472.6	11424.9	10956.7
30°	15065.7	15102.1	14663.5	14036.2	13452.1	13113.5	12940.8	13027.1	12129.4	11672.6
32.5°	16456.6	16495.3	16018.0	15283.9	14561.2	14152.1	13788.5	13574.8	12897.6	12399.8
35°	17631.6	17670.2	17122.5	16311.2	15540.7	15170.3	14758.9	14174.8	13670.3	13206.7
37.5°	18681.6	18670.2	17936.1	17118.0	16361.2	16068.0	15852.1	14913.5	14465.7	14018.0
40°	19302.0	19349.8	18722.5	17820.2	17086.2	16872.5	16858.9	15829.4	15383.9	14949.8
42.5°	19483.9	19567.9	19113.4	18372.5	17706.6	17474.8	17831.6	16820.2	16452.1	16029.3
45°	19156.6	19238.4	19031.6	18518.0	18129.3	17979.3	18668.0	17847.5	17593.0	17174.8
47.5°	18202.0	18304.3	18354.3	18245.2	18240.7	18393.0	19417.9	18929.3	18947.5	18520.2
50°	16354.3	16527.1	16986.2	17372.5	17970.2	18720.2	20147.5	20102.0	20474.7	20106.6
52.5°	12995.3	13240.7	14822.5	15879.4	17222.5	18658.9	20949.7	21983.8	23154.3	22615.6
55°	10443.1	10443.1	11729.4	13706.6	15763.4	18254.3	21299.7	23206.5	24979.2	24852.0
57.5°	8513.5	8615.8	9436.2	11184.0	13652.1	17290.7	21515.6	23974.7	26449.7	26356.5
60°	5254.5	5474.9	7024.9	8749.9	11249.9	15574.8	21379.3	24752.0	28233.7	28308.7
62.5°	2959.1	3040.9	3731.8	6295.4	8747.6	13268.0	20336.1	25186.1	30515.5	30833.7
65°	2043.2	2084.1	2350.0	3918.1	6063.6	10563.5	18297.5	24915.6	32801.9	33445.0
67.5°	1484.1	1504.5	1670.4	2393.2	3597.7	7659.0	15102.1	23552.0	34013.2	35088.2
70°	1140.9	1154.5	1275.0	1572.7	2125.0	4727.2	10968.0	20840.7	33136.0	34420.0
72.5°	927.3	940.9	1034.1	1163.6	1409.1	2795.4	6647.6	16924.8	29263.3	30649.6
75°	781.8	800.0	884.1	968.2	1104.5	1795.4	3118.1	11786.2	22006.5	22915.6
77.5°	434.1	400.0	718.2	802.3	931.8	1136.3	1459.1	6936.3	12324.8	12577.1
80°	270.5	279.5	570.4	645.4	715.9	572.7	668.2	2670.4	4272.7	4059.0
82.5°	15.9	36.4	438.6	465.9	490.9	245.5	252.3	906.8	1029.5	945.4
85°	0.0	0.0	200.0	161.4	170.5	70.5	72.7	211.4	138.6	150.0
87.5°	0.0	0.0	0.0	4.5	0.0	6.8	13.6	18.2	6.8	9.1
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°
4220.4	0°	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4	4220.4
4436.3	2.5°	4277.2	4118.1	3795.4	3479.5	3222.7	2984.1	2813.6	2652.2	2570.4	2565.9
4722.7	5°	4406.8	4072.7	3427.2	2856.8	2397.7	2029.5	1790.9	1620.4	1534.1	1504.5
5074.9	7.5°	4588.6	4086.3	3104.5	2311.3	1770.4	1454.5	1318.2	1263.6	1245.4	1225.0
5472.7	10°	4818.1	4118.1	2815.9	1861.3	1395.4	1236.3	1181.8	1159.1	1145.4	1131.8
5920.4	12.5°	5074.9	4147.7	2529.5	1545.4	1227.3	1145.4	1106.8	1079.5	1061.4	1045.4
6379.5	15°	5324.9	4165.9	2231.8	1325.0	1140.9	1075.0	1034.1	1004.5	979.5	961.4
6829.5	17.5°	5572.7	4190.9	1952.2	1193.2	1070.4	1004.5	963.6	927.3	906.8	886.4
7302.2	20°	5847.7	4186.3	1688.6	1100.0	1000.0	934.1	890.9	856.8	836.4	813.6
7802.2	22.5°	6102.2	4163.6	1456.8	1020.4	927.3	863.6	815.9	781.8	761.4	743.2
8313.5	25°	6395.4	4145.4	1263.6	947.7	859.1	795.4	743.2	711.4	688.6	672.7
8827.2	27.5°	6677.2	4118.1	1122.7	881.8	793.2	731.8	681.8	645.4	625.0	613.6
9356.7	30°	6954.5	4111.3	1070.4	818.2	734.1	672.7	622.7	588.6	572.7	568.2
9938.5	32.5°	7288.5	4129.5	1093.2	795.4	679.5	618.2	570.4	545.4	529.5	529.5
10586.2	35°	7645.4	4124.9	1127.3	815.9	643.2	563.6	527.3	511.4	495.4	495.4
11304.4	37.5°	8093.1	4131.8	1154.5	850.0	629.5	518.2	497.7	477.3	468.2	468.2
12090.8	40°	8761.3	4356.8	1140.9	879.5	625.0	486.4	445.4	438.6	431.8	431.8
12979.4	42.5°	9579.4	4845.4	1159.1	881.8	622.7	463.6	409.1	422.7	406.8	404.5
13981.6	45°	10474.9	5379.5	1275.0	834.1	620.4	452.3	390.9	406.8	381.8	381.8
15143.0	47.5°	11363.5	5909.0	1393.2	765.9	613.6	450.0	375.0	365.9	359.1	361.4
16656.6	50°	12588.5	6340.8	1438.6	672.7	597.7	445.4	345.5	347.7	343.2	347.7
18790.7	52.5°	13922.6	6431.7	1384.1	568.2	552.3	431.8	325.0	334.1	331.8	336.4
20292.9	55°	14754.4	6334.0	1143.2	472.7	481.8	377.3	304.5	322.7	322.7	322.7
21761.1	57.5°	15613.4	5918.1	811.4	384.1	400.0	309.1	286.4	311.4	309.1	306.8
23529.3	60°	16231.6	5245.4	534.1	315.9	318.2	254.5	265.9	293.2	290.9	279.5
25352.0	62.5°	16693.0	4502.2	343.2	268.2	243.2	229.5	243.2	265.9	256.8	231.8
26897.4	65°	16640.7	3472.7	263.6	229.5	200.0	200.0	211.4	231.8	204.5	163.6
27192.8	67.5°	15670.3	2350.0	218.2	193.2	168.2	165.9	175.0	193.2	175.0	138.6
25679.2	70°	13936.2	1536.3	175.0	150.0	134.1	122.7	140.9	165.9	147.7	111.4
21861.1	72.5°	11311.2	936.4	131.8	109.1	97.7	79.5	111.4	136.4	118.2	81.8
15202.1	75°	7318.1	477.3	90.9	70.5	52.3	47.7	81.8	102.3	81.8	50.0
6745.4	77.5°	2800.0	200.0	50.0	31.8	27.3	22.7	45.5	61.4	34.1	11.4
1306.8	80°	538.6	84.1	25.0	15.9	13.6	9.1	6.8	4.5	0.0	0.0
231.8	82.5°	93.2	27.3	9.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0
45.5	85°	31.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	11.4	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>
4220.4
2561.3
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959.1
884.1
811.4
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670.4
613.6
565.9
529.5
495.4
468.2
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402.3
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361.4
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336.4
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