

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: P953369

Luminaire Tested: **GALN-SB6D-940-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953369  
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-SB6D-940-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

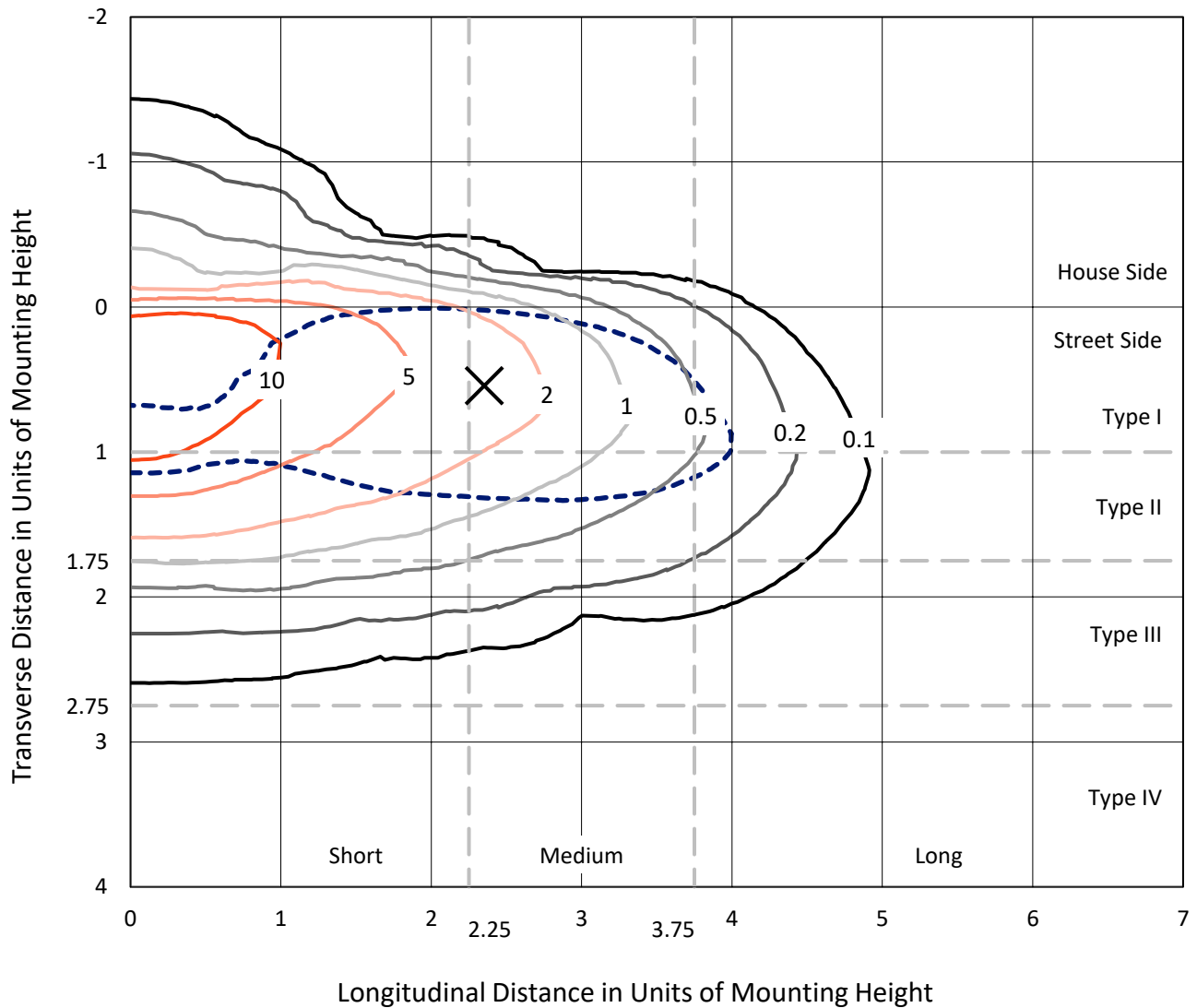
Lumens per Lamp: N/A  
Luminaire Lumens: 37860 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

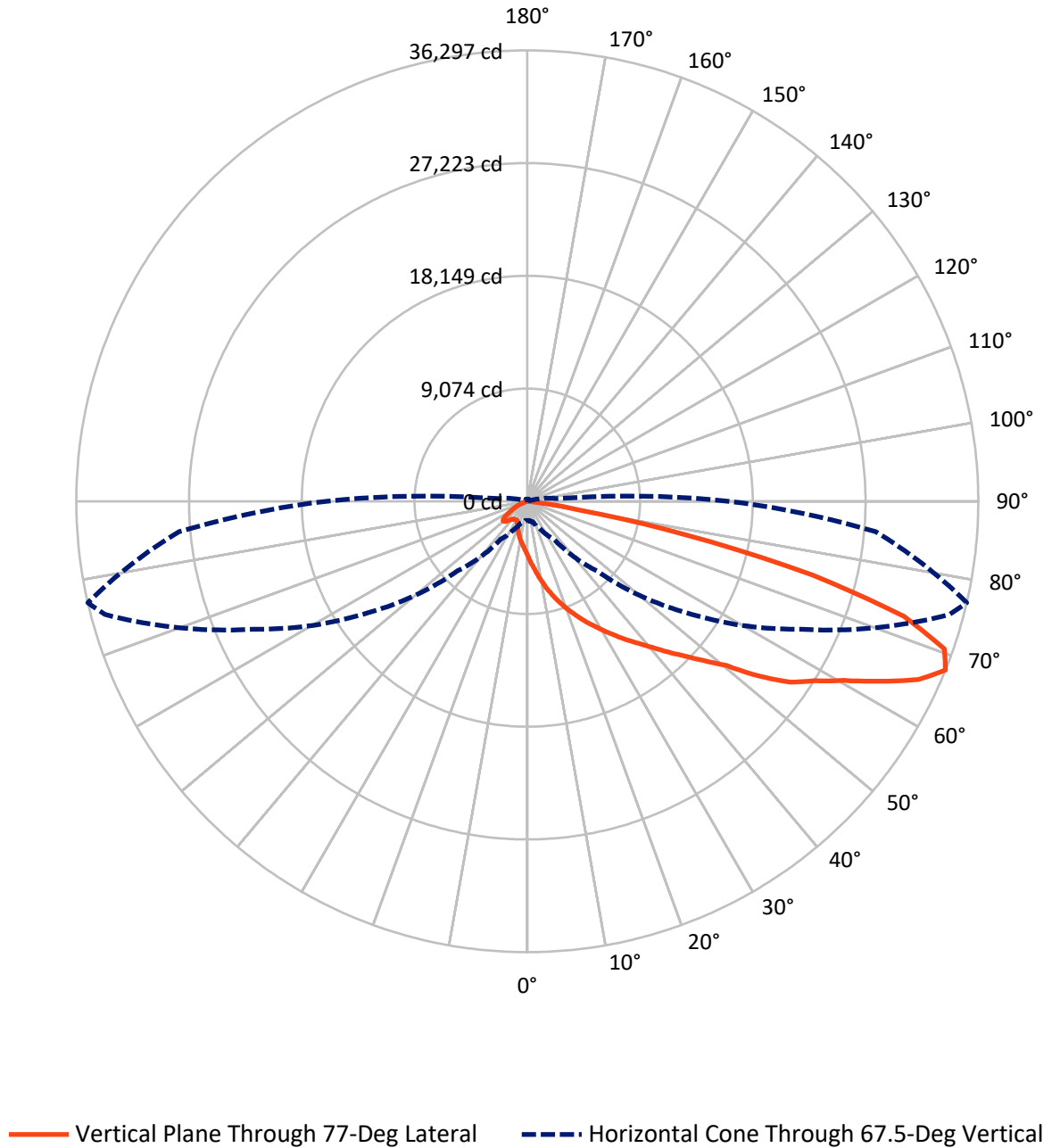
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	2785.4	0.0	2785.4
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	35074.6	0.0	35074.6
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	37860.0	0.0	37860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.6	1.2
10°-20°	1560.4	4.1
20°-30°	3011.2	8.0
30°-40°	5227.7	13.8
40°-50°	7590.3	20.0
50°-60°	8716.5	23.0
60°-70°	7567.6	20.0
70°-80°	3564.4	9.4
80°-90°	176.3	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°	37860.0	100.0
0°-180°	37860.0	100.0

**Coefficient of Utilization**



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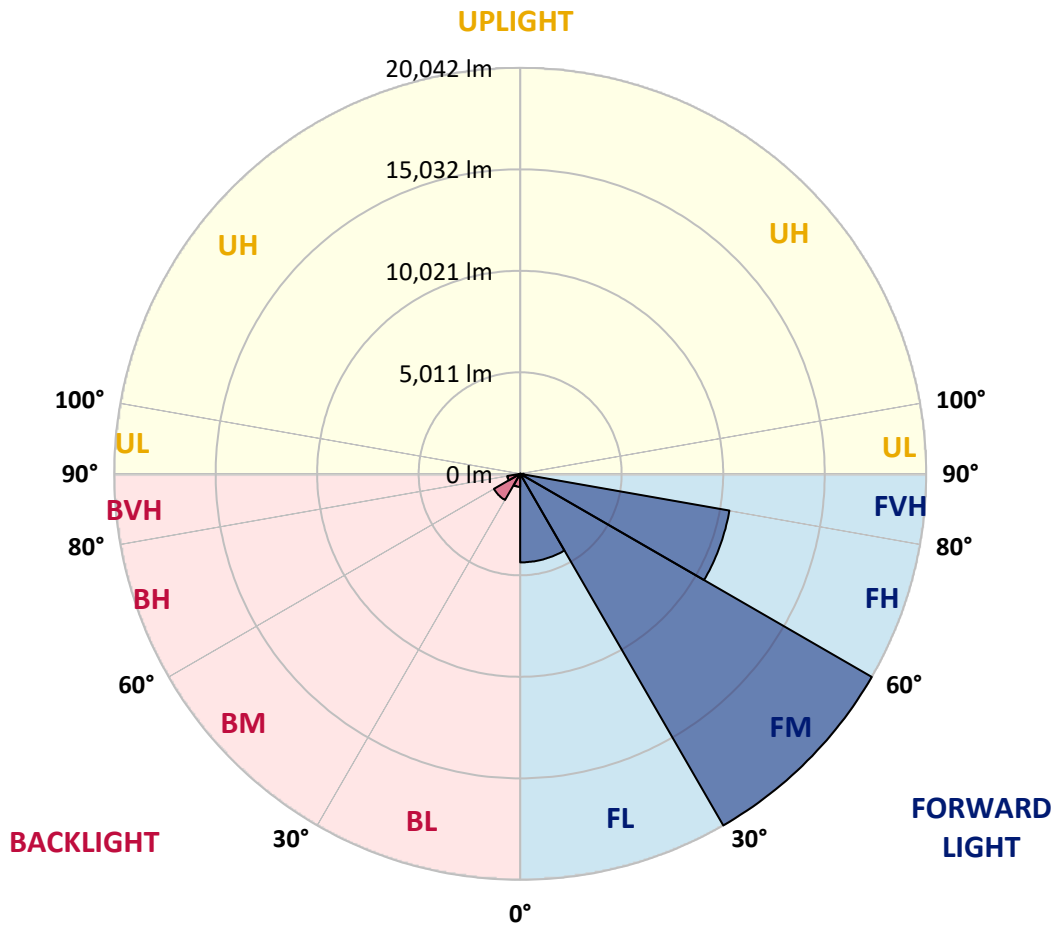
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4372.4	11.5			
FM (30°-60°)	20042.1	52.9			
FH (60°-80°)	10487.1	27.7			G4/12000
FVH (80°-90°)	173.0	0.5			G2/225
BL (0°-30°)	644.9	1.7	B2/1000		
BM (30°-60°)	1492.4	3.9	B2/2500		
BH (60°-80°)	644.8	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8
2.5°	6044.4	6082.0	6028.0	5924.5	5769.4	5668.3	5421.4	5188.7	4930.1	4847.8
5°	7368.0	7401.0	7339.8	7227.0	7020.1	6822.6	6498.2	6011.5	5506.1	5343.8
7.5°	8348.4	8367.2	8343.7	8240.3	8042.8	7819.4	7457.4	6881.4	6131.4	5952.7
10°	9053.7	9114.8	9107.8	9067.8	8936.2	8755.1	8369.6	7713.6	6832.0	6601.6
12.5°	9521.6	9589.7	9629.7	9719.1	9712.0	9596.8	9258.3	8564.7	7530.3	7259.9
15°	9657.9	9730.8	9883.6	10090.5	10273.9	10332.7	10095.2	9399.3	8299.0	7953.4
17.5°	9580.3	9693.2	9876.6	10203.4	10605.4	10871.0	10845.2	10205.7	8997.3	8602.3
20°	9752.0	9860.1	10003.5	10278.6	10746.4	11228.4	11421.2	10976.8	9690.8	9277.1
22.5°	10701.8	10683.0	10697.1	10741.7	11021.5	11498.8	11896.1	11677.4	10377.3	9954.2
25°	12206.4	12121.8	11978.4	11736.2	11665.7	11896.1	12309.9	12298.1	11101.4	10647.7
27.5°	13932.1	13917.9	13581.8	12998.7	12669.6	12580.2	12777.7	12902.3	11818.5	11334.2
30°	15584.8	15622.4	15168.7	14519.8	13915.6	13565.3	13386.6	13476.0	12547.3	12074.8
32.5°	17023.6	17063.6	16569.9	15810.5	15062.9	14639.7	14263.5	14042.5	13341.9	12827.1
35°	18239.1	18279.1	17712.5	16873.2	16076.2	15693.0	15267.4	14663.2	14141.3	13661.7
37.5°	19325.3	19313.5	18554.1	17707.8	16924.9	16621.6	16398.3	15427.3	14964.1	14501.0
40°	19967.1	20016.4	19367.6	18434.2	17674.8	17453.9	17439.7	16374.7	15913.9	15464.9
42.5°	20155.2	20242.1	19771.9	19005.5	18316.7	18076.9	18446.0	17399.8	17018.9	16581.6
45°	19816.6	19901.2	19687.3	19156.0	18754.0	18598.8	19311.1	18462.4	18199.1	17766.5
47.5°	18829.2	18935.0	18986.7	18873.9	18869.2	19026.7	20087.0	19581.5	19600.3	19158.3
50°	16917.8	17096.5	17571.4	17971.1	18589.4	19365.2	20841.7	20794.6	21180.2	20799.3
52.5°	13443.0	13696.9	15333.2	16426.5	17815.9	19301.7	21671.6	22741.3	23952.0	23394.8
55°	10802.9	10802.9	12133.5	14178.9	16306.6	18883.3	22033.6	24006.1	25839.9	25708.2
57.5°	8806.9	8912.7	9761.4	11569.3	14122.5	17886.4	22257.0	24800.7	27361.0	27264.6
60°	5435.5	5663.6	7267.0	9051.4	11637.5	16111.4	22115.9	25604.8	29206.5	29284.1
62.5°	3061.0	3145.6	3860.3	6512.3	9049.0	13725.2	21036.8	26053.8	31566.9	31896.1
65°	2113.6	2155.9	2430.9	4053.1	6272.5	10927.5	18927.9	25774.1	33932.0	34597.4
67.5°	1535.2	1556.4	1728.0	2475.6	3721.6	7922.9	15622.4	24363.5	35185.1	36297.2
70°	1180.2	1194.3	1318.9	1626.9	2198.2	4890.1	11345.9	21558.7	34277.6	35606.0
72.5°	959.2	973.3	1069.7	1203.7	1457.6	2891.7	6876.7	17507.9	30271.5	31705.6
75°	808.7	827.6	914.5	1001.5	1142.6	1857.3	3225.6	12192.3	22764.8	23705.2
77.5°	449.0	413.8	742.9	829.9	963.9	1175.5	1509.3	7175.3	12749.5	13010.5
80°	279.8	289.2	590.1	667.7	740.6	592.5	691.2	2762.4	4419.9	4198.9
82.5°	16.5	37.6	453.7	482.0	507.8	253.9	261.0	938.1	1065.0	978.0
85°	0.0	0.0	206.9	166.9	176.3	72.9	75.2	218.6	143.4	155.2
87.5°	0.0	0.0	0.0	4.7	0.0	7.1	14.1	18.8	7.1	9.4
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°
4365.8	0°	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8	4365.8
4589.2	2.5°	4424.6	4260.0	3926.2	3599.4	3333.7	3086.9	2910.5	2743.6	2659.0	2654.3
4885.4	5°	4558.6	4213.0	3545.3	2955.2	2480.3	2099.4	1852.6	1676.3	1586.9	1556.4
5249.8	7.5°	4746.7	4227.1	3211.5	2391.0	1831.4	1504.6	1363.6	1307.2	1288.4	1267.2
5661.2	10°	4984.1	4260.0	2912.9	1925.5	1443.5	1278.9	1222.5	1199.0	1184.9	1170.8
6124.4	12.5°	5249.8	4290.6	2616.7	1598.7	1269.5	1184.9	1144.9	1116.7	1097.9	1081.5
6599.3	15°	5508.4	4309.4	2308.7	1370.6	1180.2	1112.0	1069.7	1039.1	1013.3	994.5
7064.8	17.5°	5764.7	4335.3	2019.5	1234.3	1107.3	1039.1	996.8	959.2	938.1	916.9
7553.8	20°	6049.1	4330.5	1746.8	1137.9	1034.4	966.3	921.6	886.3	865.2	841.7
8071.0	22.5°	6312.4	4307.0	1507.0	1055.6	959.2	893.4	844.0	808.7	787.6	768.8
8600.0	25°	6615.7	4288.2	1307.2	980.4	888.7	822.9	768.8	735.9	712.4	695.9
9131.3	27.5°	6907.2	4260.0	1161.4	912.2	820.5	757.0	705.3	667.7	646.5	634.8
9679.1	30°	7194.1	4253.0	1107.3	846.4	759.4	695.9	644.2	608.9	592.5	587.8
10280.9	32.5°	7539.7	4271.8	1130.8	822.9	703.0	639.5	590.1	564.2	547.8	547.8
10951.0	35°	7908.8	4267.1	1166.1	844.0	665.3	583.0	545.4	529.0	512.5	512.5
11693.9	37.5°	8371.9	4274.1	1194.3	879.3	651.2	536.0	514.9	493.7	484.3	484.3
12507.3	40°	9063.1	4506.9	1180.2	909.8	646.5	503.1	460.8	453.7	446.7	446.7
13426.6	42.5°	9909.5	5012.3	1199.0	912.2	644.2	479.6	423.2	437.3	420.8	418.5
14463.4	45°	10835.8	5564.8	1318.9	862.8	641.8	467.8	404.4	420.8	395.0	395.0
15664.7	47.5°	11755.0	6112.6	1441.2	792.3	634.8	465.5	387.9	378.5	371.5	373.8
17230.5	50°	13022.2	6559.3	1488.2	695.9	618.3	460.8	357.4	359.7	355.0	359.7
19438.1	52.5°	14402.3	6653.3	1431.8	587.8	571.3	446.7	336.2	345.6	343.2	347.9
20992.1	55°	15262.7	6552.2	1182.6	489.0	498.4	390.3	315.0	333.8	333.8	333.8
22510.9	57.5°	16151.4	6122.0	839.3	397.3	413.8	319.7	296.2	322.1	319.7	317.4
24339.9	60°	16790.9	5426.1	552.5	326.8	329.1	263.3	275.1	303.3	300.9	289.2
26225.5	62.5°	17268.1	4657.3	355.0	277.4	251.6	237.5	251.6	275.1	265.7	239.8
27824.1	65°	17214.1	3592.3	272.7	237.5	206.9	206.9	218.6	239.8	211.6	169.3
28129.8	67.5°	16210.2	2430.9	225.7	199.8	174.0	171.6	181.0	199.8	181.0	143.4
26564.0	70°	14416.4	1589.3	181.0	155.2	138.7	127.0	145.8	171.6	152.8	115.2
22614.3	72.5°	11700.9	968.6	136.4	112.8	101.1	82.3	115.2	141.1	122.3	84.6
15725.9	75°	7570.2	493.7	94.0	72.9	54.1	49.4	84.6	105.8	84.6	51.7
6977.8	77.5°	2896.4	206.9	51.7	32.9	28.2	23.5	47.0	63.5	35.3	11.8
1351.8	80°	557.2	87.0	25.9	16.5	14.1	9.4	7.1	4.7	0.0	0.0
239.8	82.5°	96.4	28.2	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
47.0	85°	32.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.5	87.5°	11.8	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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<u>180°</u>
4365.8
2649.6
1551.7
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992.1
914.5
839.3
766.4
693.5
634.8
585.4
547.8
512.5
484.3
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