

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: P953285

Luminaire Tested: **GALN-SB6D-850-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953285  
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-850-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

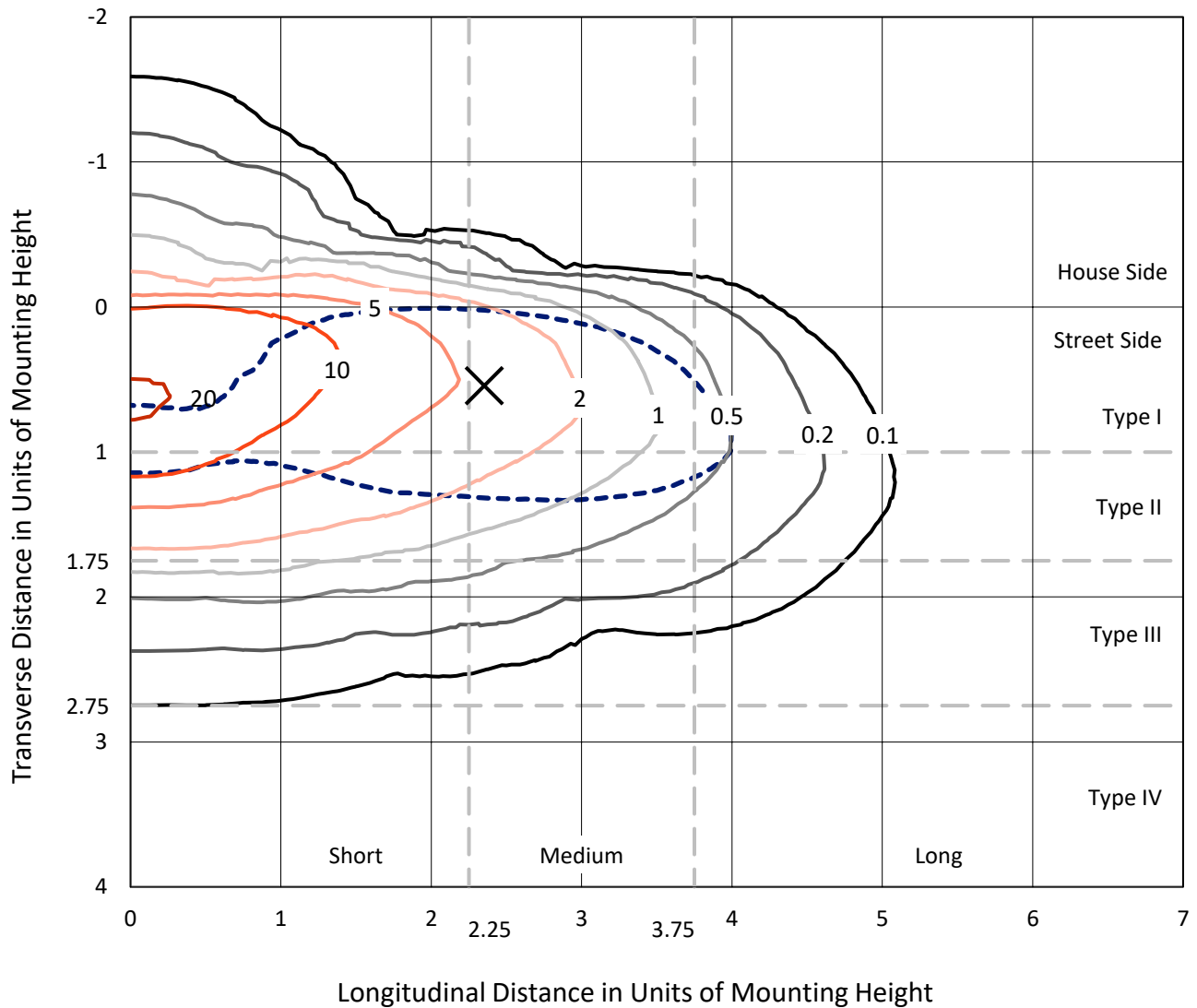
Lumens per Lamp: N/A  
Luminaire Lumens: 49975 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

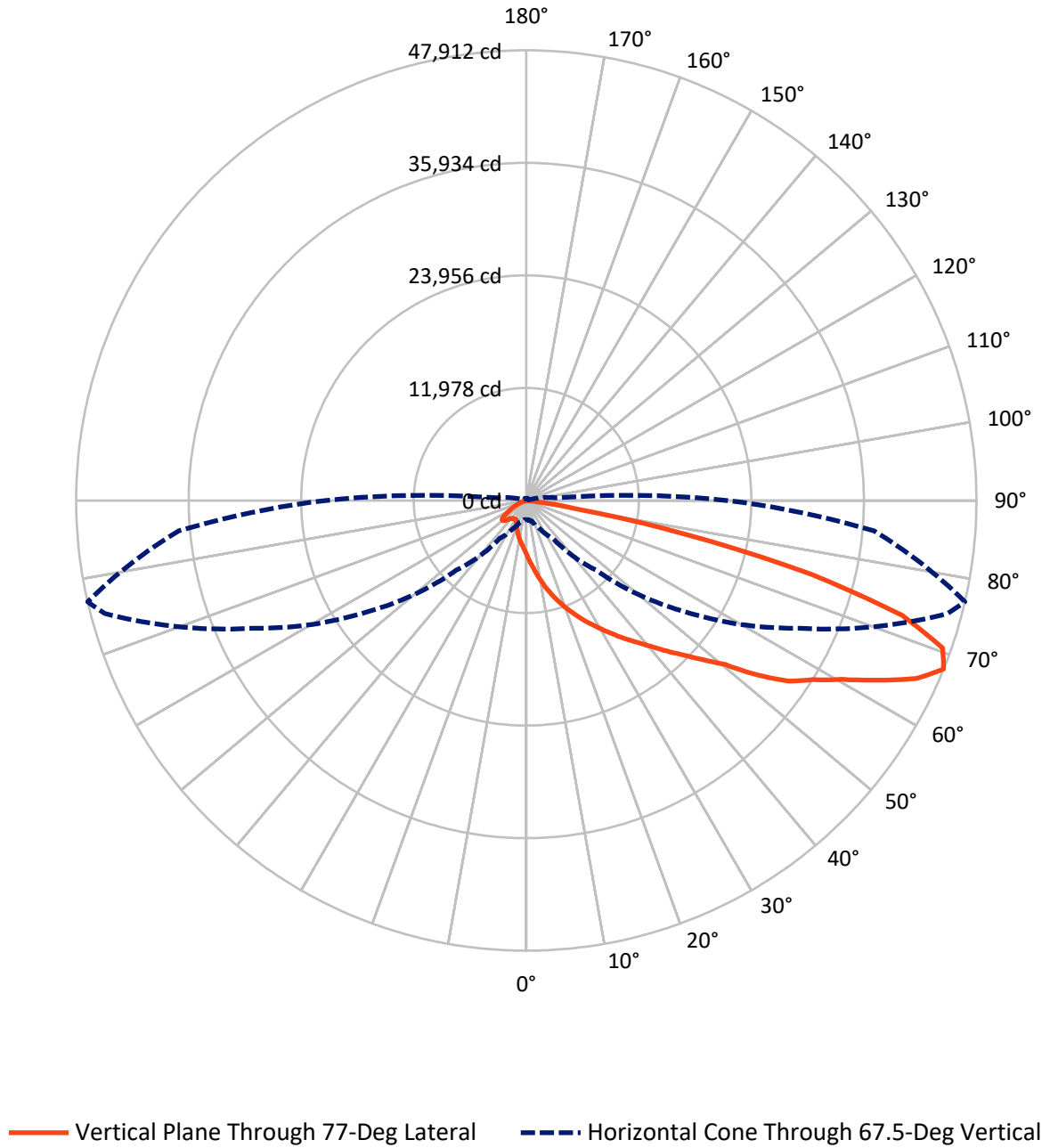
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 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	3676.7	0.0	3676.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	46298.3	0.0	46298.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	49975.0	0.0	49975.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.2	1.2
10°-20°	2059.8	4.1
20°-30°	3974.8	8.0
30°-40°	6900.5	13.8
40°-50°	10019.2	20.0
50°-60°	11505.8	23.0
60°-70°	9989.1	20.0
70°-80°	4705.0	9.4
80°-90°	232.7	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°	49975.0	100.0
0°-180°	49975.0	100.0

**Coefficient of Utilization**



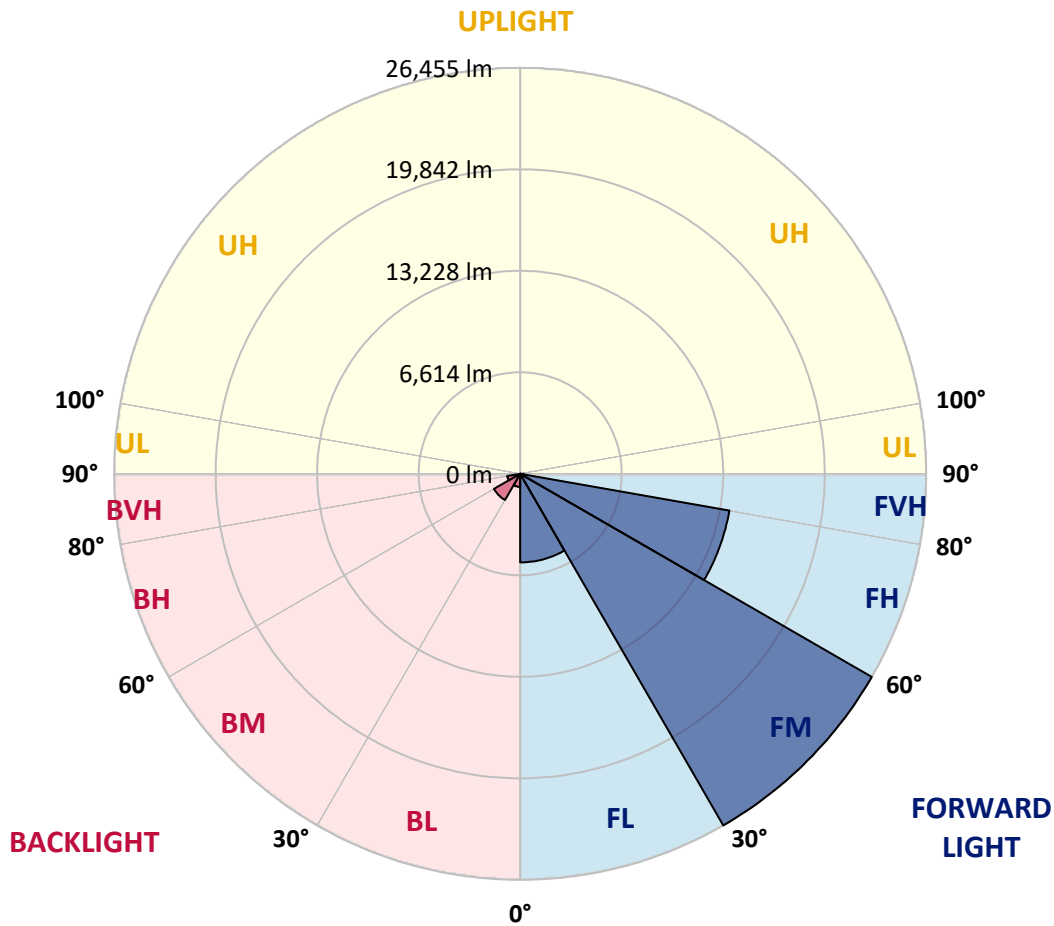
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5771.6	11.5			
FM (30°-60°)	26455.4	52.9			
FH (60°-80°)	13842.9	27.7			G5
FVH (80°-90°)	228.4	0.5			G3/500
BL (0°-30°)	851.2	1.7	B2/1000		
BM (30°-60°)	1970.0	3.9	B2/2500		
BH (60°-80°)	851.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9
2.5°	7978.6	8028.3	7956.9	7820.3	7615.5	7482.1	7156.2	6849.0	6507.6	6399.0
5°	9725.8	9769.2	9688.5	9539.6	9266.5	9005.8	8577.6	7935.2	7268.0	7053.8
7.5°	11019.9	11044.7	11013.7	10877.1	10616.4	10321.6	9843.7	9083.4	8093.4	7857.6
10°	11950.9	12031.5	12022.2	11969.5	11795.7	11556.7	11047.8	10182.0	9018.2	8714.1
12.5°	12568.4	12658.4	12711.2	12829.1	12819.8	12667.7	12220.8	11305.4	9939.9	9583.0
15°	12748.4	12844.6	13046.3	13319.4	13561.5	13639.1	13325.6	12407.0	10954.7	10498.5
17.5°	12646.0	12795.0	13037.0	13468.4	13999.0	14349.7	14315.6	13471.5	11876.4	11355.0
20°	12872.5	13015.3	13204.6	13567.7	14185.2	14821.4	15075.9	14489.4	12791.9	12245.7
22.5°	14126.3	14101.5	14120.1	14179.0	14548.3	15178.3	15702.8	15414.2	13698.0	13139.4
25°	16112.4	16000.7	15811.4	15491.7	15398.6	15702.8	16248.9	16233.4	14653.8	14054.9
27.5°	18390.2	18371.6	17927.8	17158.2	16723.8	16605.8	16866.5	17031.0	15600.4	14961.1
30°	20571.9	20621.5	20022.6	19166.1	18368.5	17906.1	17670.3	17788.2	16562.4	15938.6
32.5°	22471.1	22523.8	21872.1	20869.8	19882.9	19324.3	18827.8	18536.1	17611.3	16931.7
35°	24075.5	24128.3	23380.4	22272.5	21220.5	20714.6	20152.9	19355.4	18666.4	18033.4
37.5°	25509.2	25493.7	24491.3	23374.2	22340.7	21940.4	21645.6	20363.9	19752.6	19141.2
40°	26356.4	26421.6	25565.1	24333.1	23330.7	23039.0	23020.4	21614.6	21006.3	20413.6
42.5°	26604.7	26719.5	26098.9	25087.2	24177.9	23861.4	24348.6	22967.6	22464.9	21887.7
45°	26157.8	26269.5	25987.1	25285.8	24755.1	24550.3	25490.6	24370.3	24022.7	23451.7
47.5°	24854.4	24994.1	25062.4	24913.4	24907.2	25115.1	26514.7	25847.5	25872.3	25288.9
50°	22331.4	22567.3	23194.2	23721.7	24537.9	25562.0	27510.9	27448.8	27957.7	27455.0
52.5°	17744.7	18079.9	20239.8	21682.8	23516.9	25478.2	28606.3	30018.3	31616.6	30881.1
55°	14259.7	14259.7	16016.2	18716.1	21524.6	24925.8	29084.2	31687.9	34108.5	33934.7
57.5°	11625.0	11764.7	12885.0	15271.4	18641.6	23610.0	29379.1	32736.8	36116.4	35989.1
60°	7174.9	7475.9	9592.3	11947.8	15361.4	21267.0	29192.9	33798.2	38552.5	38654.9
62.5°	4040.5	4152.2	5095.6	8596.2	11944.7	18117.1	27768.4	34390.9	41668.2	42102.6
65°	2789.9	2845.7	3208.8	5350.1	8279.6	14424.2	24984.8	34021.6	44790.1	45668.4
67.5°	2026.5	2054.4	2280.9	3267.8	4912.5	10458.2	20621.5	32159.6	46444.2	47912.0
70°	1557.9	1576.5	1741.0	2147.5	2901.6	6454.9	14976.6	28457.4	45246.3	46999.7
72.5°	1266.2	1284.8	1412.0	1588.9	1924.1	3817.1	9077.2	23110.4	39958.3	41851.3
75°	1067.5	1092.4	1207.2	1322.0	1508.2	2451.6	4257.7	16093.8	30049.4	31290.7
77.5°	592.7	546.2	980.6	1095.5	1272.4	1551.7	1992.3	9471.3	16829.3	17173.7
80°	369.3	381.7	778.9	881.3	977.5	782.0	912.4	3646.4	5834.2	5542.5
82.5°	21.7	49.7	598.9	636.2	670.3	335.2	344.5	1238.2	1405.8	1291.0
85°	0.0	0.0	273.1	220.3	232.7	96.2	99.3	288.6	189.3	204.8
87.5°	0.0	0.0	0.0	6.2	0.0	9.3	18.6	24.8	9.3	12.4
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°
5762.9	0°	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9	5762.9
6057.7	2.5°	5840.4	5623.2	5182.5	4751.2	4400.5	4074.6	3841.9	3621.6	3509.8	3503.6
6448.7	5°	6017.3	5561.1	4679.8	3900.9	3274.0	2771.3	2445.4	2212.7	2094.7	2054.4
6929.7	7.5°	6265.6	5579.8	4239.1	3156.1	2417.5	1986.1	1799.9	1725.4	1700.6	1672.7
7472.8	10°	6579.0	5623.2	3845.0	2541.6	1905.4	1688.2	1613.7	1582.7	1564.1	1545.4
8084.1	12.5°	6929.7	5663.5	3454.0	2110.3	1675.8	1564.1	1511.3	1474.1	1449.2	1427.5
8711.0	15°	7271.1	5688.4	3047.5	1809.2	1557.9	1467.9	1412.0	1371.7	1337.5	1312.7
9325.5	17.5°	7609.3	5722.5	2665.7	1629.2	1461.7	1371.7	1315.8	1266.2	1238.2	1210.3
9970.9	20°	7984.8	5716.3	2305.8	1502.0	1365.5	1275.5	1216.5	1169.9	1142.0	1111.0
10653.7	22.5°	8332.4	5685.3	1989.2	1393.4	1266.2	1179.3	1114.1	1067.5	1039.6	1014.8
11351.9	25°	8732.7	5660.4	1725.4	1294.1	1173.1	1086.2	1014.8	971.3	940.3	918.6
12053.3	27.5°	9117.5	5623.2	1533.0	1204.1	1083.1	999.3	931.0	881.3	853.4	837.9
12776.3	30°	9496.1	5613.9	1461.7	1117.2	1002.4	918.6	850.3	803.8	782.0	775.8
13570.8	32.5°	9952.3	5638.7	1492.7	1086.2	927.9	844.1	778.9	744.8	723.1	723.1
14455.2	35°	10439.5	5632.5	1539.2	1114.1	878.2	769.6	720.0	698.2	676.5	676.5
15435.9	37.5°	11050.9	5641.8	1576.5	1160.6	859.6	707.6	679.6	651.7	639.3	639.3
16509.6	40°	11963.3	5949.1	1557.9	1201.0	853.4	664.1	608.2	598.9	589.6	589.6
17723.0	42.5°	13080.5	6616.3	1582.7	1204.1	850.3	633.1	558.6	577.2	555.5	552.4
19091.6	45°	14303.2	7345.5	1741.0	1138.9	847.2	617.6	533.8	555.5	521.4	521.4
20677.4	47.5°	15516.6	8068.6	1902.3	1045.8	837.9	614.5	512.0	499.6	490.3	493.4
22744.2	50°	17189.3	8658.2	1964.4	918.6	816.2	608.2	471.7	474.8	468.6	474.8
25658.2	52.5°	19010.9	8782.4	1889.9	775.8	754.1	589.6	443.8	456.2	453.1	459.3
27709.5	55°	20146.7	8648.9	1561.0	645.5	657.9	515.1	415.8	440.7	440.7	440.7
29714.2	57.5°	21319.8	8081.0	1107.9	524.5	546.2	422.1	391.0	425.2	422.1	418.9
32128.6	60°	22163.9	7162.4	729.3	431.4	434.5	347.6	363.1	400.3	397.2	381.7
34617.5	62.5°	22793.8	6147.7	468.6	366.2	332.1	313.4	332.1	363.1	350.7	316.5
36727.7	65°	22722.5	4741.9	360.0	313.4	273.1	273.1	288.6	316.5	279.3	223.4
37131.1	67.5°	21397.3	3208.8	297.9	263.8	229.6	226.5	239.0	263.8	239.0	189.3
35064.3	70°	19029.5	2097.8	239.0	204.8	183.1	167.6	192.4	226.5	201.7	152.1
29850.8	72.5°	15445.2	1278.6	180.0	149.0	133.4	108.6	152.1	186.2	161.4	111.7
20758.1	75°	9992.7	651.7	124.1	96.2	71.4	65.2	111.7	139.6	111.7	68.3
9210.6	77.5°	3823.3	273.1	68.3	43.4	37.2	31.0	62.1	83.8	46.5	15.5
1784.4	80°	735.5	114.8	34.1	21.7	18.6	12.4	9.3	6.2	0.0	0.0
316.5	82.5°	127.2	37.2	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
62.1	85°	43.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.7	87.5°	15.5	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>
5762.9
3497.4
2048.2
1666.5
1539.2
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1011.7
915.5
837.9
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676.5
639.3
589.6
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