

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: P955282

Luminaire Tested: **GALN-SB8B-740-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-740-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

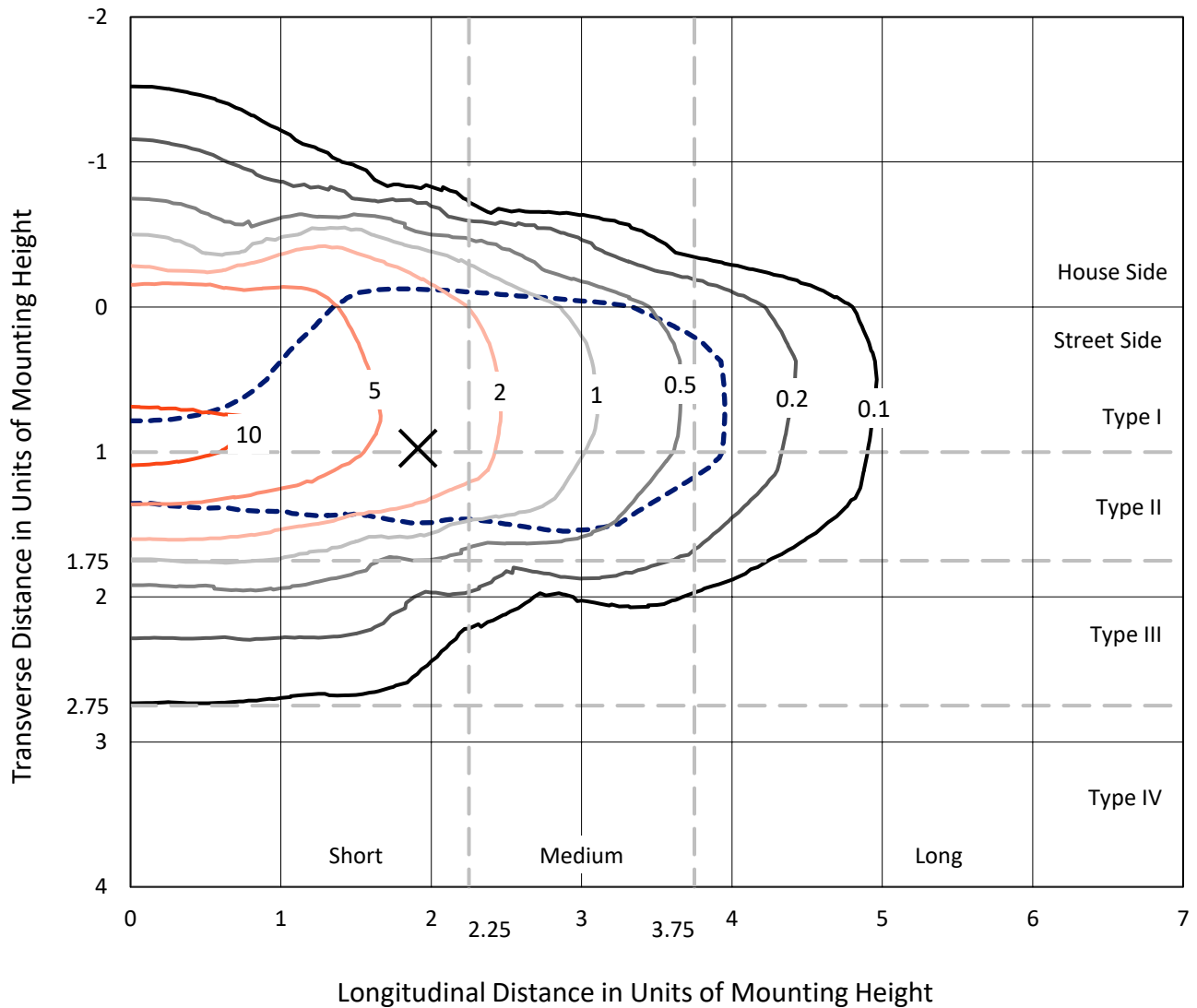
Lumens per Lamp: N/A  
Luminaire Lumens: 36816 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

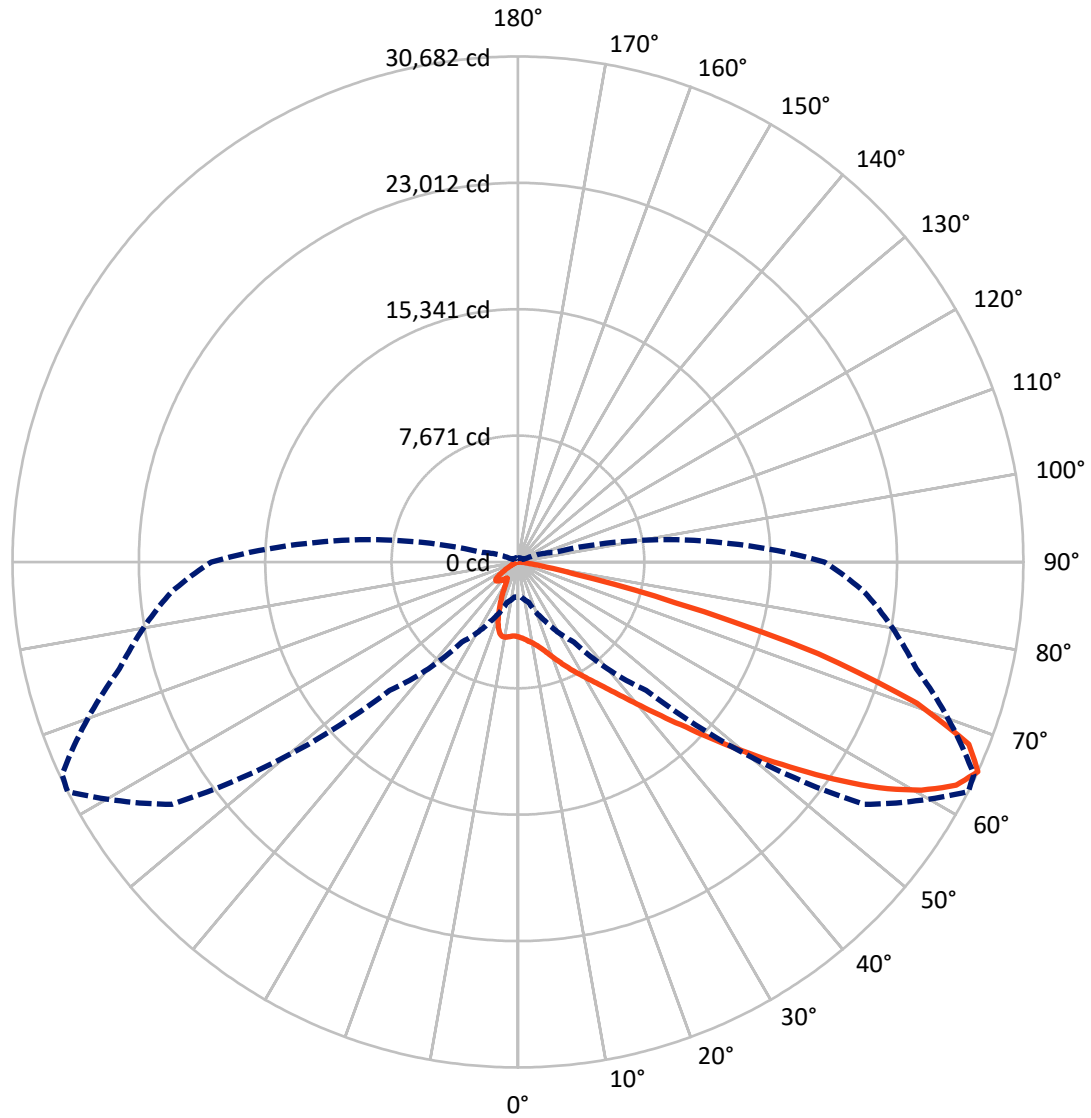
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5411.7	0.0	5411.7
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	31404.3	0.0	31404.3
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	36816.0	0.0	36816.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	1.2
10°-20°	1187.9	3.2
20°-30°	2068.3	5.6
30°-40°	3728.0	10.1
40°-50°	7393.8	20.1
50°-60°	10071.6	27.4
60°-70°	8039.0	21.8
70°-80°	3637.8	9.9
80°-90°	261.5	0.7
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°	36816.0	100.0
0°-180°	36816.0	100.0

**Coefficient of Utilization**



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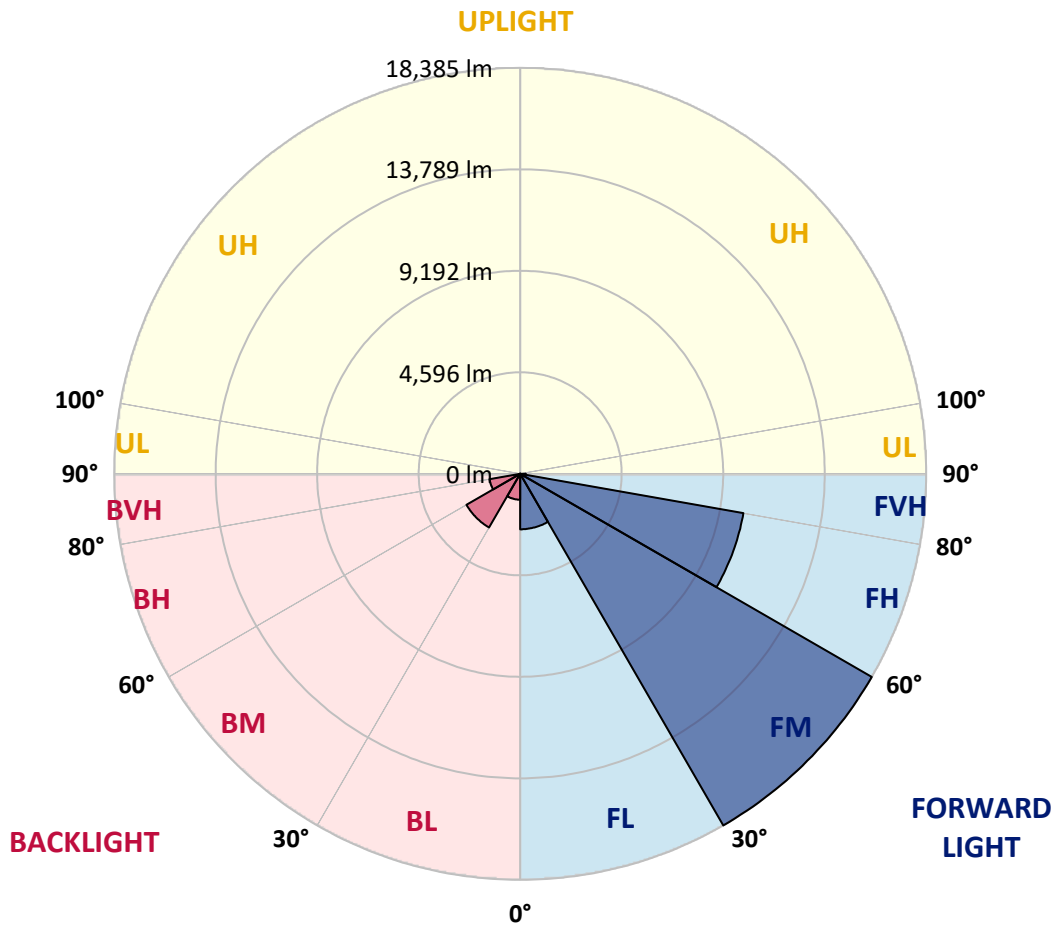
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.1	6.8			
FM (30°-60°)	18385.0	49.9			
FH (60°-80°)	10264.1	27.9			G4/12000
FVH (80°-90°)	242.1	0.7			G3/500
BL (0°-30°)	1171.2	3.2	B3/2500		
BM (30°-60°)	2808.3	7.6	B3/5000		
BH (60°-80°)	1412.8	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8
2.5°	4650.2	4637.5	4655.2	4647.6	4642.6	4632.4	4627.4	4622.3	4612.2	4604.6
5°	4662.8	4655.2	4673.0	4688.2	4703.4	4718.6	4726.1	4736.3	4726.1	4705.9
7.5°	4556.5	4551.4	4589.4	4635.0	4703.4	4761.6	4824.9	4860.4	4862.9	4855.3
10°	4548.9	4536.2	4574.2	4629.9	4718.6	4822.4	4933.8	5009.8	5020.0	5052.9
12.5°	4667.9	4655.2	4708.4	4769.2	4860.4	4969.3	5106.1	5212.4	5227.6	5273.2
15°	4868.0	4850.3	4911.0	4989.6	5106.1	5230.2	5374.5	5470.8	5483.4	5539.2
17.5°	5101.0	5083.3	5154.2	5237.8	5364.4	5534.1	5701.3	5807.6	5822.8	5858.3
20°	5399.9	5377.1	5432.8	5508.8	5643.0	5845.6	6045.7	6197.7	6195.2	6195.2
22.5°	5746.9	5711.4	5759.5	5820.3	5946.9	6192.6	6458.6	6638.4	6638.4	6567.5
25°	6119.2	6083.7	6136.9	6192.6	6304.1	6582.7	6894.2	7117.1	7127.2	7005.6
27.5°	6585.2	6539.6	6580.1	6646.0	6711.8	6995.5	7365.3	7623.6	7628.7	7441.3
30°	7481.8	7352.6	7226.0	7155.1	7185.5	7466.6	7861.7	8147.9	8173.2	7914.9
32.5°	9123.0	9097.7	8651.9	8069.4	7765.5	7973.2	8416.4	8760.9	8776.0	8444.3
35°	11673.5	11643.1	10926.4	9817.0	8826.7	8651.9	9090.1	9497.9	9487.8	9112.9
37.5°	14717.9	14690.1	13745.3	12261.1	10657.9	9677.7	9958.9	10386.9	10450.2	9958.9
40°	17319.1	17215.2	16617.5	15186.5	13089.4	11379.7	11194.8	11478.5	11544.4	10961.8
42.5°	19289.6	19200.9	18897.0	18002.9	16032.4	13897.3	12651.2	12760.1	12833.5	12134.5
45°	20310.3	20290.0	20411.6	20328.0	19031.2	16987.3	14733.1	14279.8	14307.6	13433.8
47.5°	20454.7	20444.5	20999.2	21784.4	21609.6	20472.4	17405.2	16174.3	16075.5	14900.3
50°	19603.6	19583.4	20647.1	22118.7	23331.9	23400.3	20439.5	18309.4	18091.6	16417.4
52.5°	16886.0	16880.9	18628.5	21077.7	23937.2	25963.4	23438.3	20654.7	20290.0	18023.2
55°	12993.1	13086.8	15090.2	17985.2	22832.9	27196.9	26130.6	23258.4	22698.7	19639.1
57.5°	9204.1	9340.9	11321.5	13899.8	19408.6	26467.5	27951.7	25867.2	25264.4	21249.9
60°	4944.0	5065.5	7048.7	10126.0	14439.3	23747.3	28911.6	28131.5	27561.6	22779.7
62.5°	2945.6	2986.1	3806.8	6537.1	9766.4	18142.2	28503.8	29856.3	29387.7	24063.9
65°	2114.9	2122.5	2535.3	3991.6	5929.2	11022.6	25644.3	30682.0	30537.6	25031.4
67.5°	1780.5	1775.5	1947.7	2651.8	4039.8	5521.4	19654.3	29514.4	30127.3	25644.3
70°	1527.3	1534.9	1737.5	1942.6	3036.8	3125.4	9771.4	25697.5	27004.4	25806.4
72.5°	1137.2	1162.5	1350.0	1770.4	2292.2	2150.3	3373.7	19054.0	21417.1	24314.6
75°	802.9	815.6	949.8	1489.3	1709.6	1565.3	1722.3	9849.9	12879.1	18641.2
77.5°	618.0	640.8	719.3	1041.0	1684.3	1099.2	1053.6	3409.1	5237.8	11260.7
80°	334.3	374.9	519.2	752.2	1182.8	777.6	521.8	1357.6	1775.5	5265.6
82.5°	172.2	192.5	362.2	542.0	673.7	678.8	258.3	564.8	732.0	1626.0
85°	68.4	83.6	243.1	298.9	347.0	334.3	116.5	227.9	263.4	450.8
87.5°	15.2	25.3	88.6	68.4	65.9	70.9	27.9	53.2	50.7	53.2
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°
4543.8	0°	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8	4543.8
4574.2	2.5°	4571.7	4561.5	4533.7	4503.3	4467.8	4447.5	4434.9	4432.3	4414.6	4402.0
4675.5	5°	4647.6	4637.5	4584.3	4521.0	4452.6	4399.4	4348.8	4303.2	4237.3	4224.7
4822.4	7.5°	4799.6	4771.7	4685.6	4599.5	4470.3	4315.8	4128.4	3913.1	3720.6	3662.4
5017.4	10°	4987.0	4949.0	4840.1	4688.2	4402.0	3981.5	3528.1	3107.7	2773.4	2679.7
5247.9	12.5°	5199.8	5166.9	5022.5	4741.3	4115.8	3353.4	2659.4	2137.7	1813.5	1732.4
5493.6	15°	5453.1	5404.9	5204.8	4660.3	3604.1	2548.0	1826.1	1517.1	1400.6	1385.4
5774.7	17.5°	5721.5	5643.0	5366.9	4369.0	2915.2	1810.9	1410.8	1322.1	1271.5	1256.3
6058.4	20°	5967.2	5865.9	5463.2	3928.3	2178.2	1410.8	1263.9	1205.6	1160.0	1142.3
6342.1	22.5°	6212.9	6068.5	5463.2	3328.1	1633.6	1251.2	1160.0	1106.8	1053.6	1030.8
6646.0	25°	6468.7	6276.2	5366.9	2659.4	1314.5	1147.3	1061.2	1003.0	957.4	929.5
6934.7	27.5°	6716.9	6451.0	5146.6	2026.2	1170.1	1056.2	970.1	914.3	871.3	851.0
7248.8	30°	6952.5	6623.2	4837.6	1537.4	1076.4	967.5	886.5	838.3	795.3	775.0
7656.6	32.5°	7271.6	6841.0	4508.3	1261.3	995.4	883.9	810.5	764.9	726.9	711.7
8185.9	35°	7714.8	7162.7	4224.7	1238.5	927.0	815.6	742.1	699.0	661.1	648.4
8869.8	37.5°	8342.9	7681.9	4075.2	1390.5	871.3	754.8	686.4	640.8	605.3	595.2
9738.5	40°	9118.0	8386.0	4156.3	1542.5	833.3	701.6	635.7	590.1	559.7	547.1
10736.4	42.5°	10037.4	9254.7	4604.6	1659.0	808.0	656.0	587.6	536.9	516.7	511.6
11868.6	45°	11093.5	10209.6	5291.0	1783.1	767.4	612.9	539.5	501.5	486.3	483.8
13099.5	47.5°	12294.1	11258.2	6086.2	1937.6	726.9	572.4	501.5	476.2	463.5	458.4
14383.6	50°	13484.5	12314.3	6904.3	2023.7	694.0	534.4	471.1	450.8	440.7	438.2
15741.2	52.5°	14730.6	13400.9	7565.4	1942.6	666.1	504.0	445.8	430.6	420.4	417.9
16992.4	55°	15918.5	14279.8	7679.4	1648.8	610.4	473.6	417.9	410.3	397.6	397.6
18261.3	57.5°	16941.7	14720.5	6873.9	1210.7	554.7	428.0	390.0	382.4	372.3	369.8
19406.1	60°	17881.4	14593.8	5306.2	815.6	493.9	382.4	354.6	349.5	339.4	326.7
20401.5	62.5°	18410.7	14036.6	3629.5	531.9	433.1	334.3	314.1	311.5	288.7	263.4
21138.5	65°	18610.8	12891.8	2264.3	387.5	362.2	286.2	271.0	265.9	233.0	205.2
21556.4	67.5°	18436.0	11007.4	1142.3	306.5	286.2	238.1	222.9	222.9	200.1	174.8
21531.1	70°	17737.0	8251.8	481.2	245.7	220.4	182.4	182.4	192.5	169.7	141.8
20414.1	72.5°	16219.9	5551.8	255.8	187.4	164.6	129.2	149.4	157.0	134.2	106.4
16708.7	75°	12894.3	3386.3	177.3	139.3	103.8	91.2	114.0	119.0	91.2	70.9
11455.7	77.5°	8819.1	1945.2	119.0	88.6	65.9	53.2	78.5	73.5	48.1	32.9
4417.2	80°	3872.6	810.5	68.4	40.5	25.3	20.3	27.9	20.3	15.2	10.1
605.3	82.5°	453.4	190.0	25.3	15.2	10.1	5.1	2.5	0.0	0.0	0.0
184.9	85°	93.7	22.8	12.7	5.1	2.5	0.0	0.0	0.0	0.0	0.0
32.9	87.5°	17.7	5.1	2.5	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>
4543.8
4414.6
4219.6
3634.5
2644.2
1709.6
1370.2
1248.7
1132.1
1018.2
919.4
851.0
777.6
711.7
648.4
592.7
544.5
511.6
481.2
458.4
438.2
417.9
395.1
367.3
324.2
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202.6
172.2
139.3
106.4
68.4
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