

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: P957046

Luminaire Tested: **GALN-SB9C-735-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957046  
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-SB9C-735-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

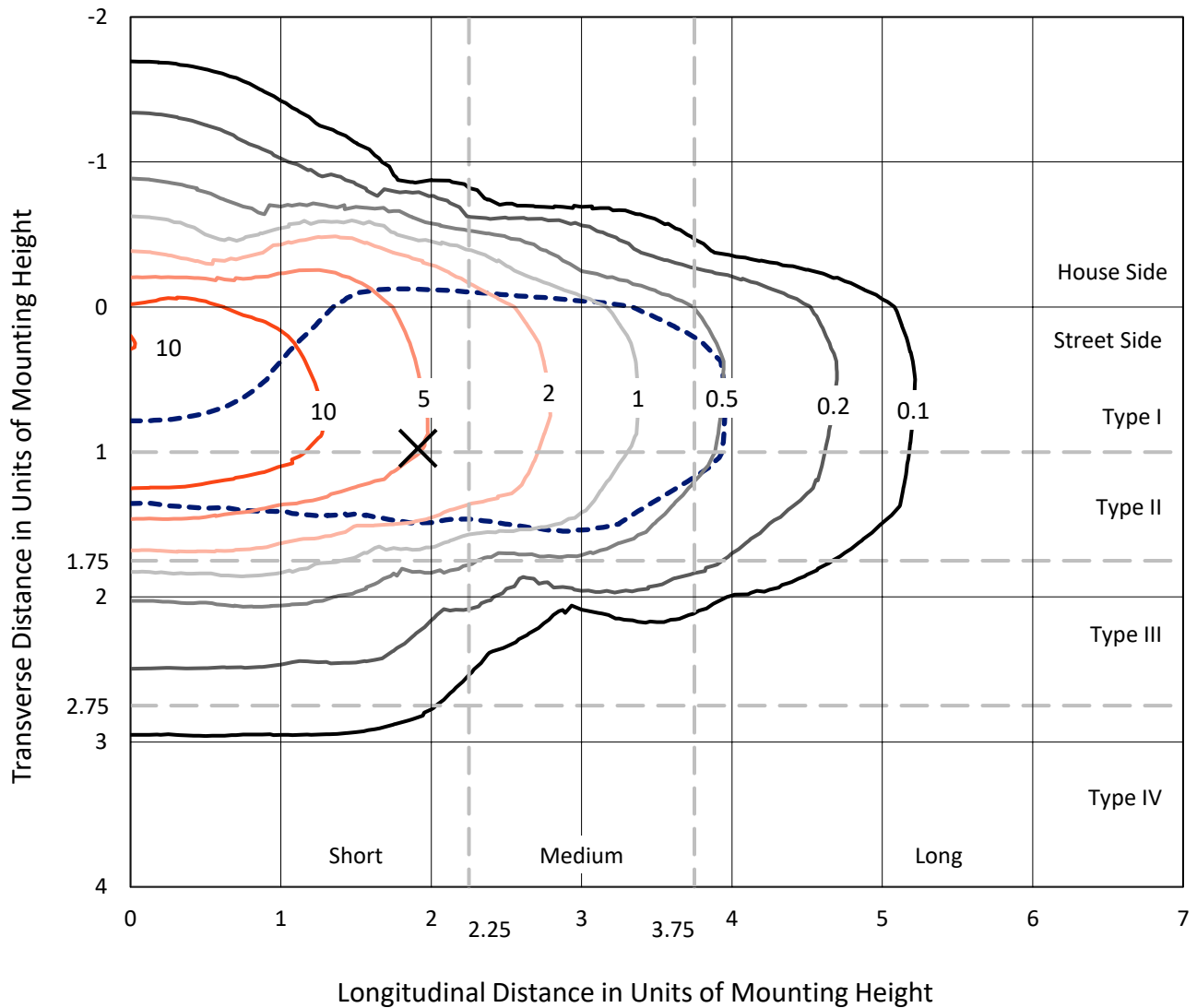
Lumens per Lamp: N/A  
Luminaire Lumens: 52132 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

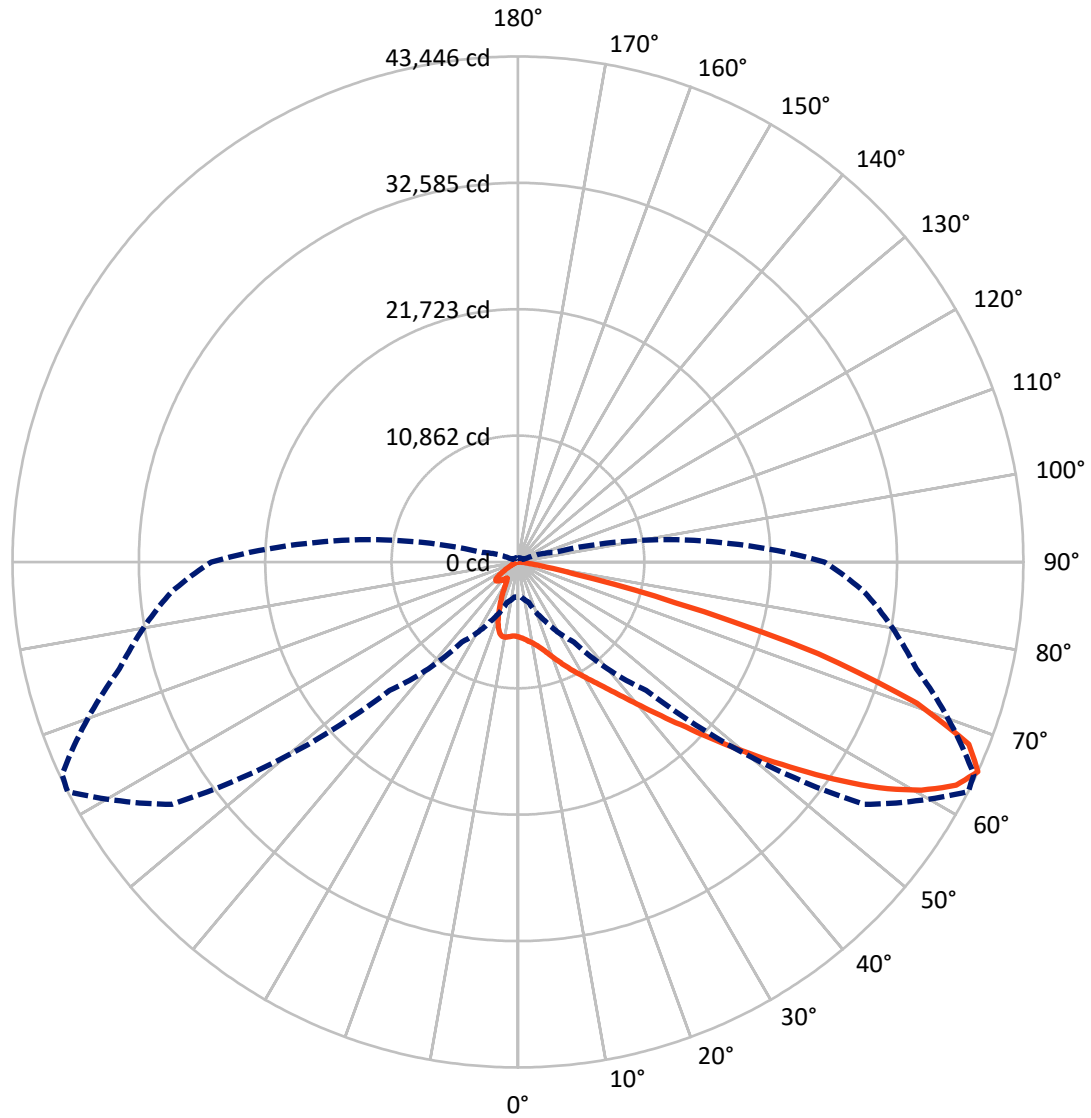
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	7663.0	0.0	7663.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	44469.0	0.0	44469.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	52132.0	0.0	52132.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.2	1.2
10°-20°	1682.0	3.2
20°-30°	2928.8	5.6
30°-40°	5278.9	10.1
40°-50°	10469.7	20.1
50°-60°	14261.5	27.4
60°-70°	11383.4	21.8
70°-80°	5151.2	9.9
80°-90°	370.3	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°	52132.0	100.0
0°-180°	52132.0	100.0

**Coefficient of Utilization**



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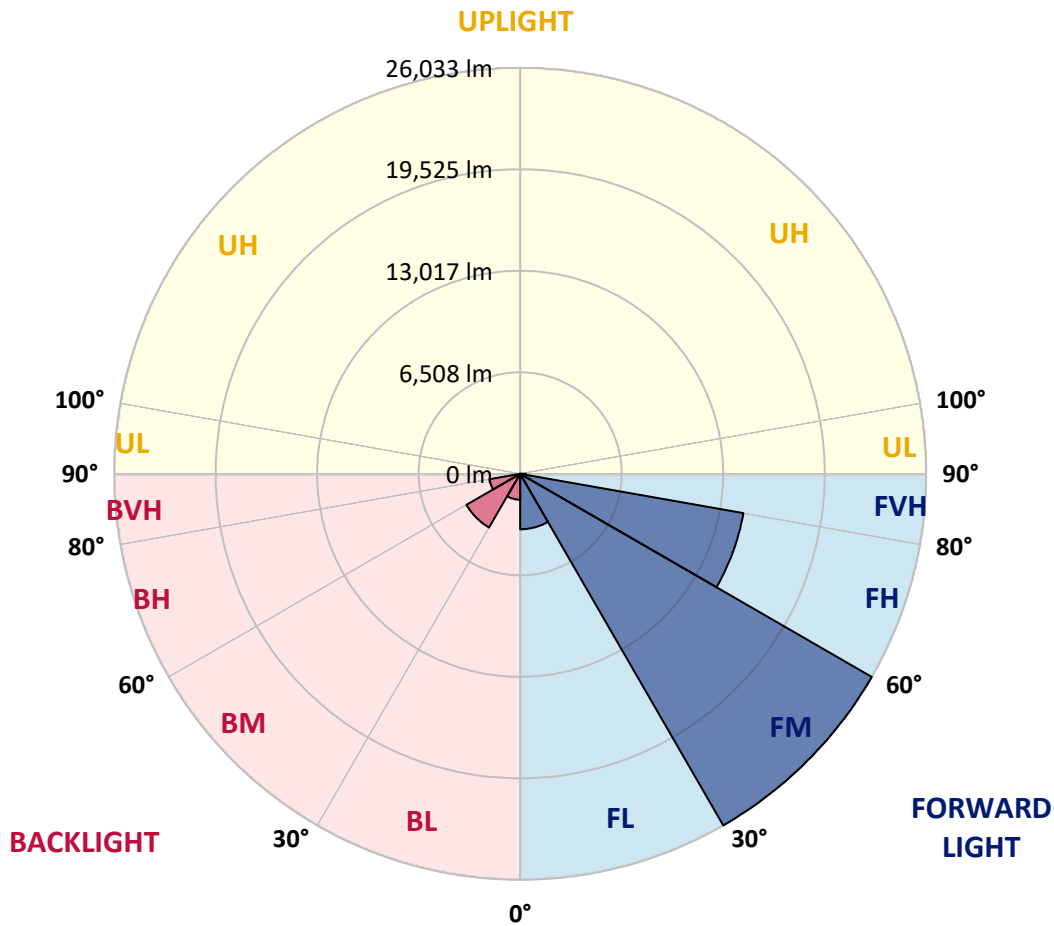
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3558.6	6.8			
FM (30°-60°)	26033.4	49.9			
FH (60°-80°)	14534.1	27.9			G5
FVH (80°-90°)	342.8	0.7			G3/500
BL (0°-30°)	1658.4	3.2	B3/2500		
BM (30°-60°)	3976.6	7.6	B3/5000		
BH (60°-80°)	2000.5	3.8	B3/2500		G3/2500
BVH (80°-90°)	27.5	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-G5**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1
2.5°	6584.7	6566.8	6591.9	6581.1	6573.9	6559.6	6552.4	6545.3	6530.9	6520.1
5°	6602.6	6591.9	6617.0	6638.5	6660.0	6681.5	6692.3	6706.6	6692.3	6663.6
7.5°	6452.0	6444.8	6498.6	6563.2	6660.0	6742.5	6832.2	6882.4	6886.0	6875.2
10°	6441.2	6423.3	6477.1	6556.0	6681.5	6828.6	6986.4	7094.0	7108.3	7154.9
12.5°	6609.8	6591.9	6667.2	6753.3	6882.4	7036.6	7230.3	7380.9	7402.4	7467.0
15°	6893.1	6868.0	6954.1	7065.3	7230.3	7406.0	7610.4	7746.7	7764.6	7843.5
17.5°	7223.1	7198.0	7298.4	7416.8	7596.1	7836.4	8073.1	8223.7	8245.2	8295.4
20°	7646.3	7614.0	7692.9	7800.5	7990.6	8277.5	8560.8	8776.0	8772.4	8772.4
22.5°	8137.6	8087.4	8155.6	8241.6	8421.0	8768.8	9145.4	9400.1	9400.1	9299.6
25°	8664.8	8614.6	8689.9	8768.8	8926.6	9321.2	9762.3	10077.9	10092.2	9920.1
27.5°	9324.7	9260.2	9317.6	9410.8	9504.1	9905.7	10429.4	10795.2	10802.4	10537.0
30°	10594.3	10411.4	10232.1	10131.7	10174.7	10572.8	11132.3	11537.6	11573.4	11207.6
32.5°	12918.4	12882.5	12251.3	11426.4	10996.0	11290.1	11917.7	12405.5	12427.0	11957.2
35°	16529.9	16486.9	15471.9	13901.0	12498.7	12251.3	12871.7	13449.2	13434.8	12904.0
37.5°	20840.8	20801.4	19463.6	17362.0	15091.7	13703.8	14101.9	14708.0	14797.7	14101.9
40°	24524.1	24377.0	23530.6	21504.3	18534.7	16113.9	15852.1	16253.7	16347.0	15522.1
42.5°	27314.3	27188.8	26758.4	25492.4	22702.2	19678.8	17914.3	18068.5	18172.5	17182.6
45°	28759.7	28731.0	28903.1	28784.8	26948.5	24054.3	20862.3	20220.4	20259.8	19022.5
47.5°	28964.1	28949.7	29735.2	30847.0	30599.5	28989.2	24646.0	22903.0	22763.1	21099.0
50°	27759.0	27730.4	29236.7	31320.4	33038.3	33135.1	28942.6	25926.4	25617.9	23247.3
52.5°	23910.8	23903.6	26378.3	29846.4	33895.4	36764.6	33188.9	29247.4	28731.0	25521.1
55°	18398.4	18531.1	21368.0	25467.3	32331.8	38511.2	37001.3	32934.3	32141.7	27809.3
57.5°	13033.1	13226.8	16031.4	19682.4	27482.9	37478.3	39580.0	36628.3	35774.7	30090.2
60°	7000.7	7172.9	9981.1	14338.6	20446.3	33626.5	40939.2	39834.6	39027.6	32256.4
62.5°	4171.0	4228.4	5390.4	9256.6	13829.3	25689.7	40361.8	42277.0	41613.5	34074.8
65°	2994.7	3005.4	3590.0	5652.2	8395.9	15608.2	36312.7	43446.1	43241.7	35444.8
67.5°	2521.3	2514.1	2758.0	3755.0	5720.4	7818.4	27830.8	41792.8	42660.7	36312.7
70°	2162.6	2173.4	2460.3	2750.8	4300.1	4425.7	13836.5	36388.0	38238.6	36542.2
72.5°	1610.3	1646.2	1911.6	2506.9	3245.7	3044.9	4777.1	26980.8	30326.9	34429.8
75°	1136.9	1154.8	1344.9	2108.8	2420.8	2216.4	2438.8	13947.7	18237.0	26396.2
77.5°	875.1	907.4	1018.5	1474.0	2385.0	1556.5	1492.0	4827.3	7416.8	15945.3
80°	473.4	530.8	735.2	1065.2	1674.9	1101.0	738.8	1922.3	2514.1	7456.2
82.5°	243.9	272.6	512.9	767.5	954.0	961.2	365.8	799.8	1036.5	2302.5
85°	96.8	118.4	344.3	423.2	491.3	473.4	165.0	322.8	373.0	638.4
87.5°	21.5	35.9	125.5	96.8	93.2	100.4	39.5	75.3	71.7	75.3
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°
6434.1	0°	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1	6434.1
6477.1	2.5°	6473.5	6459.2	6419.7	6376.7	6326.5	6297.8	6279.9	6276.3	6251.2	6233.2
6620.6	5°	6581.1	6566.8	6491.5	6401.8	6305.0	6229.6	6157.9	6093.4	6000.1	5982.2
6828.6	7.5°	6796.3	6756.9	6634.9	6513.0	6330.1	6111.3	5845.9	5541.1	5268.5	5186.0
7104.7	10°	7061.7	7007.9	6853.7	6638.5	6233.2	5637.9	4995.9	4400.6	3927.2	3794.5
7431.1	12.5°	7363.0	7316.3	7111.9	6713.8	5828.0	4748.4	3765.8	3027.0	2567.9	2453.1
7779.0	15°	7721.6	7653.5	7370.1	6599.1	5103.5	3608.0	2585.8	2148.3	1983.3	1961.8
8177.1	17.5°	8101.8	7990.6	7599.7	6186.6	4128.0	2564.3	1997.6	1872.1	1800.4	1778.9
8578.8	20°	8449.7	8306.2	7736.0	5562.6	3084.3	1997.6	1789.6	1707.1	1642.6	1617.5
8980.4	22.5°	8797.5	8593.1	7736.0	4712.6	2313.3	1771.7	1642.6	1567.3	1492.0	1459.7
9410.8	25°	9159.8	8887.2	7599.7	3765.8	1861.4	1624.7	1502.7	1420.2	1355.7	1316.2
9819.7	27.5°	9511.2	9134.7	7287.6	2869.2	1656.9	1495.5	1373.6	1294.7	1233.7	1205.0
10264.4	30°	9844.8	9378.5	6850.1	2177.0	1524.2	1370.0	1255.3	1187.1	1126.1	1097.5
10841.8	32.5°	10296.7	9687.0	6383.9	1786.0	1409.5	1251.7	1147.7	1083.1	1029.3	1007.8
11591.4	35°	10924.3	10142.5	5982.2	1753.8	1312.6	1154.8	1050.8	989.9	936.1	918.1
12559.7	37.5°	11813.7	10877.7	5770.6	1969.0	1233.7	1068.8	971.9	907.4	857.2	842.8
13789.9	40°	12911.2	11874.7	5885.3	2184.1	1179.9	993.4	900.2	835.6	792.6	774.7
15202.9	42.5°	14213.1	13104.9	6520.1	2349.1	1144.1	928.9	832.1	760.3	731.6	724.5
16806.1	45°	15708.6	14456.9	7492.1	2524.9	1086.7	867.9	763.9	710.1	688.6	685.0
18549.1	47.5°	17408.6	15941.7	8618.2	2743.6	1029.3	810.5	710.1	674.3	656.3	649.1
20367.4	50°	19094.2	17437.3	9776.6	2865.6	982.7	756.7	667.1	638.4	624.0	620.5
22289.7	52.5°	20858.7	18975.9	10712.7	2750.8	943.2	713.7	631.2	609.7	595.3	591.8
24061.4	55°	22540.8	20220.4	10874.1	2334.8	864.3	670.7	591.8	581.0	563.1	563.1
25858.2	57.5°	23989.7	20844.4	9733.6	1714.3	785.4	606.1	552.3	541.6	527.2	523.6
27479.3	60°	25320.3	20665.1	7513.6	1154.8	699.4	541.6	502.1	494.9	480.6	462.7
28888.8	62.5°	26069.8	19876.1	5139.4	753.2	613.3	473.4	444.7	441.1	408.9	373.0
29932.4	65°	26353.2	18255.0	3206.3	548.7	512.9	405.3	383.7	376.6	330.0	290.5
30524.2	67.5°	26105.7	15586.7	1617.5	434.0	405.3	337.1	315.6	315.6	283.3	247.5
30488.3	70°	25115.8	11684.6	681.4	347.9	312.0	258.2	258.2	272.6	240.3	200.8
28906.7	72.5°	22967.6	7861.5	362.2	265.4	233.1	182.9	211.6	222.4	190.1	150.6
23659.7	75°	18258.6	4795.1	251.1	197.3	147.0	129.1	161.4	168.6	129.1	100.4
16221.5	77.5°	12488.0	2754.4	168.6	125.5	93.2	75.3	111.2	104.0	68.1	46.6
6254.8	80°	5483.7	1147.7	96.8	57.4	35.9	28.7	39.5	28.7	21.5	14.3
857.2	82.5°	642.0	269.0	35.9	21.5	14.3	7.2	3.6	0.0	0.0	0.0
261.8	85°	132.7	32.3	17.9	7.2	3.6	0.0	0.0	0.0	0.0	0.0
46.6	87.5°	25.1	7.2	3.6	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>
6434.1
6251.2
5975.0
5146.5
3744.2
2420.8
1940.3
1768.1
1603.1
1441.7
1301.9
1205.0
1101.0
1007.8
918.1
839.2
771.1
724.5
681.4
649.1
620.5
591.8
559.5
520.0
459.1
365.8
286.9
243.9
197.3
150.6
96.8
50.2
14.3
0.0
0.0
0.0
0.0

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