

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: P955259

Luminaire Tested: **GALN-SB8B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955259
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-SB8B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 450mA 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: 38552 lumens
Efficiency: N/A
Efficacy: 131.7 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

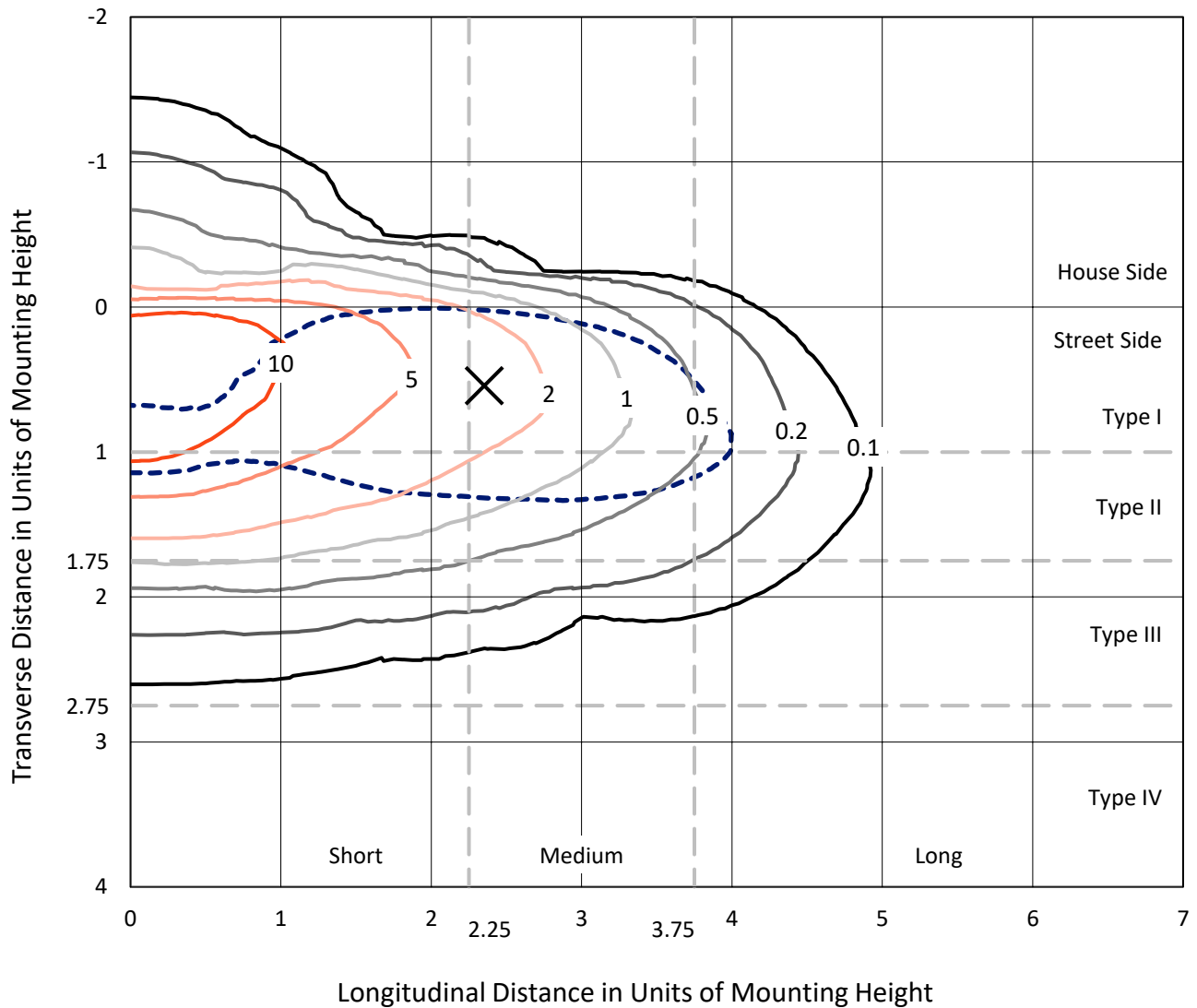
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

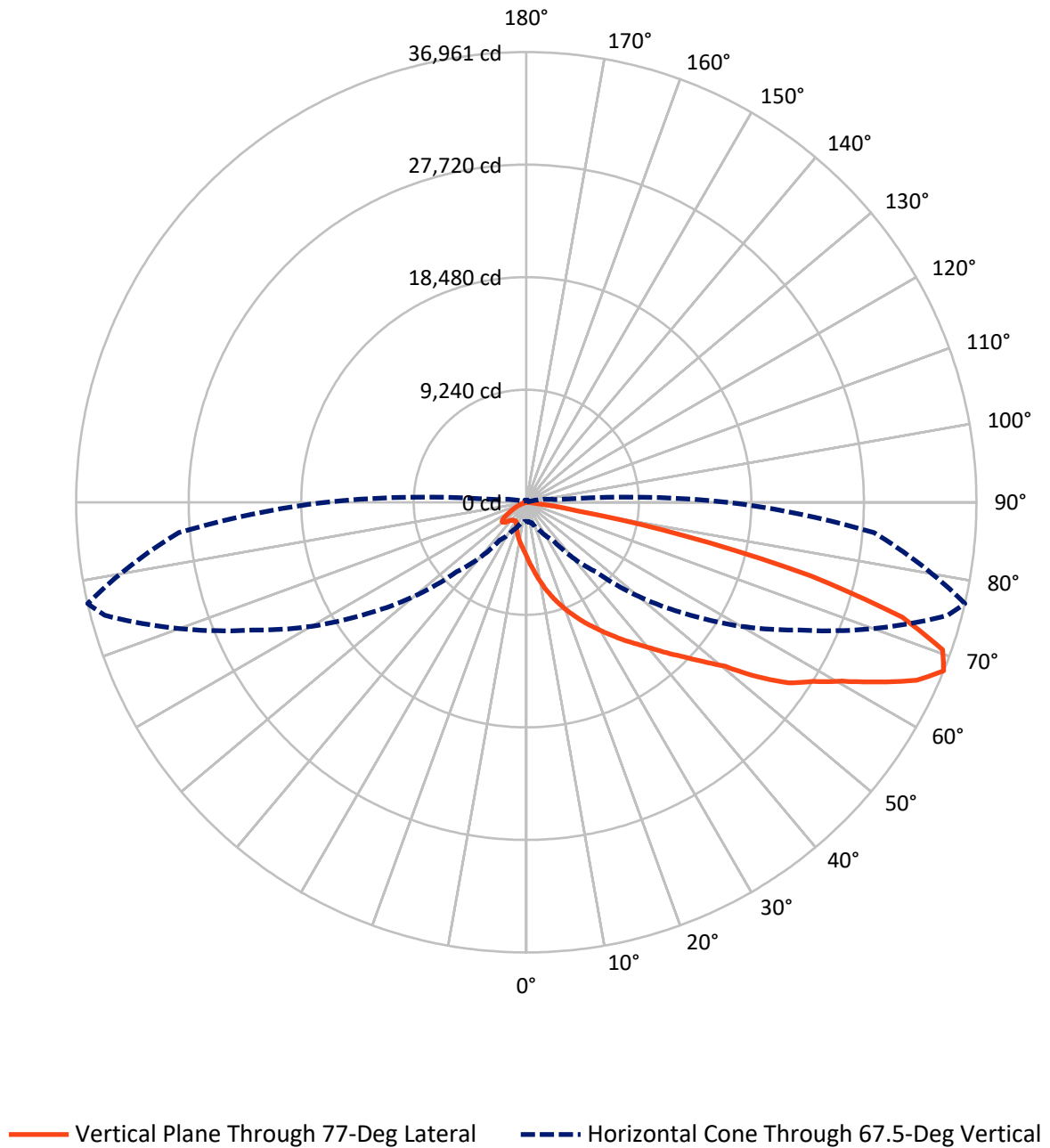
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2836.3	0.0	2836.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	35715.7	0.0	35715.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	38552.0	0.0	38552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.7	1.2
10°-20°	1589.0	4.1
20°-30°	3066.3	8.0
30°-40°	5323.2	13.8
40°-50°	7729.0	20.0
50°-60°	8875.8	23.0
60°-70°	7705.9	20.0
70°-80°	3629.5	9.4
80°-90°	179.5	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°	38552.0	100.0
0°-180°	38552.0	100.0

Coefficient of Utilization



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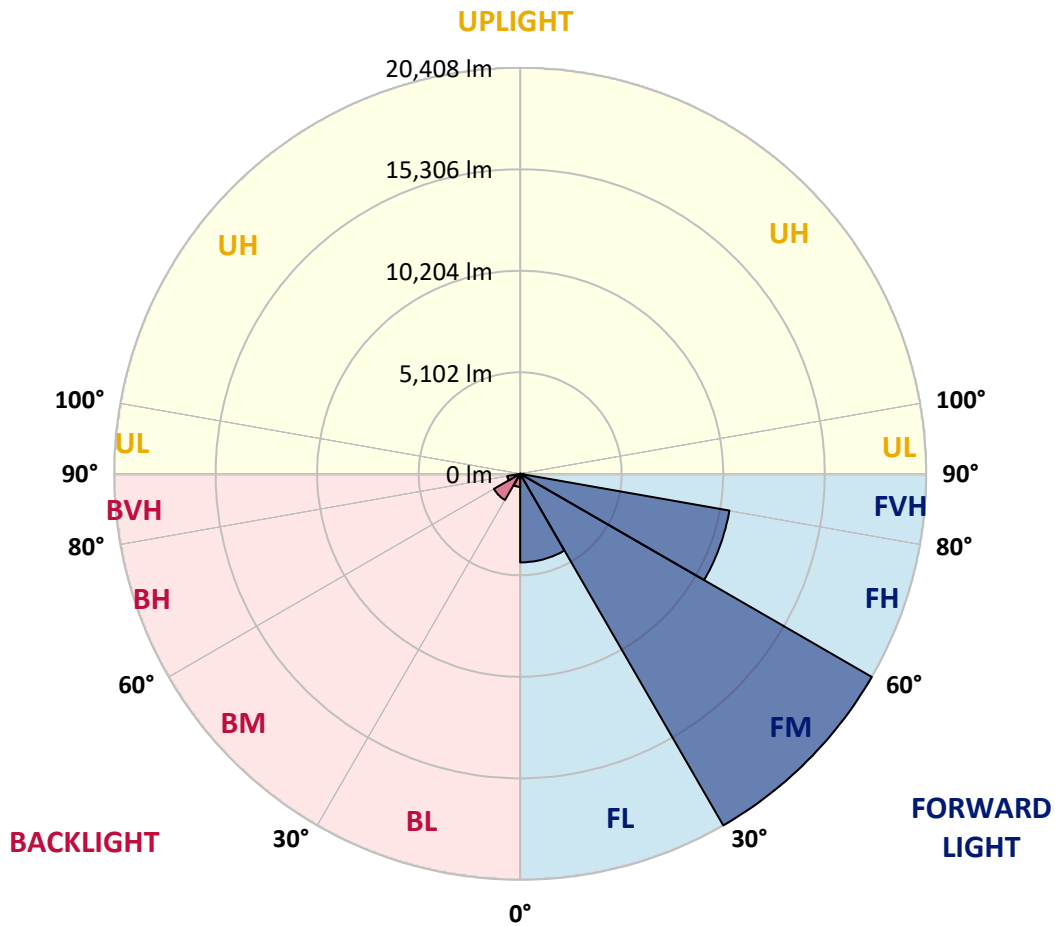
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4452.3	11.5			
FM (30°-60°)	20408.4	52.9			
FH (60°-80°)	10678.8	27.7			G4/12000
FVH (80°-90°)	176.2	0.5			G2/225
BL (0°-30°)	656.6	1.7	B2/1000		
BM (30°-60°)	1519.7	3.9	B2/2500		
BH (60°-80°)	656.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.3	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6
2.5°	6154.9	6193.2	6138.2	6032.8	5874.8	5771.9	5520.5	5283.5	5020.2	4936.4
5°	7502.7	7536.2	7474.0	7359.1	7148.4	6947.3	6616.9	6121.4	5606.7	5441.5
7.5°	8501.0	8520.2	8496.2	8390.9	8189.8	7962.4	7593.7	7007.2	6243.5	6061.5
10°	9219.2	9281.4	9274.3	9233.6	9099.5	8915.2	8522.6	7854.6	6956.9	6722.3
12.5°	9695.6	9765.0	9805.7	9896.7	9889.5	9772.2	9427.5	8721.3	7667.9	7392.6
15°	9834.5	9908.7	10064.3	10274.9	10461.7	10521.5	10279.7	9571.1	8450.7	8098.8
17.5°	9755.4	9870.4	10057.1	10389.9	10799.2	11069.7	11043.4	10392.2	9161.7	8759.6
20°	9930.2	10040.3	10186.4	10466.5	10942.9	11433.6	11629.9	11177.5	9868.0	9446.6
22.5°	10897.4	10878.2	10892.6	10938.1	11223.0	11708.9	12113.5	11890.9	10567.0	10136.1
25°	12429.5	12343.3	12197.3	11950.7	11878.9	12113.5	12534.9	12522.9	11304.4	10842.3
27.5°	14186.7	14172.3	13830.0	13236.3	12901.1	12810.2	13011.3	13138.1	12034.5	11541.4
30°	15869.7	15908.0	15445.9	14785.2	14169.9	13813.2	13631.3	13722.3	12776.6	12295.5
32.5°	17334.8	17375.5	16872.7	16099.5	15338.2	14907.3	14524.2	14299.2	13585.8	13061.5
35°	18572.5	18613.2	18036.2	17181.6	16370.0	15979.8	15546.5	14931.2	14399.8	13911.4
37.5°	19678.5	19666.5	18893.3	18031.4	17234.2	16925.4	16698.0	15709.3	15237.7	14766.0
40°	20332.0	20382.3	19721.6	18771.2	17997.9	17772.9	17758.5	16674.0	16204.8	15747.6
42.5°	20523.6	20612.1	20133.3	19352.9	18651.5	18407.3	18783.1	17717.8	17330.0	16884.7
45°	20178.8	20265.0	20047.1	19506.1	19096.7	18938.7	19664.1	18799.9	18531.8	18091.3
47.5°	19173.3	19281.1	19333.7	19218.8	19214.0	19374.4	20454.1	19939.4	19958.6	19508.5
50°	17227.0	17409.0	17892.6	18299.5	18929.2	19719.2	21222.6	21174.7	21567.3	21179.5
52.5°	13688.8	13947.3	15613.5	16726.7	18141.5	19654.5	22067.7	23156.9	24389.8	23822.4
55°	11000.3	11000.3	12355.3	14438.1	16604.6	19228.4	22436.3	24444.9	26312.2	26178.1
57.5°	8967.8	9075.6	9939.8	11780.8	14380.6	18213.4	22663.8	25254.0	27861.1	27762.9
60°	5534.9	5767.1	7399.8	9216.8	11850.2	16405.9	22520.1	26072.8	29740.4	29819.4
62.5°	3117.0	3203.1	3930.9	6631.3	9214.4	13976.0	21421.3	26530.0	32143.9	32479.1
65°	2152.2	2195.3	2475.4	4127.2	6387.1	11127.2	19273.9	26245.2	34552.2	35229.7
67.5°	1563.3	1584.8	1759.6	2520.9	3789.7	8067.7	15908.0	24808.8	35828.2	36960.6
70°	1201.8	1216.1	1343.0	1656.6	2238.4	4979.5	11553.3	21952.8	34904.2	36256.8
72.5°	976.7	991.1	1089.3	1225.7	1484.3	2944.6	7002.4	17827.9	30824.8	32285.2
75°	823.5	842.7	931.3	1019.8	1163.5	1891.2	3284.5	12415.2	23180.9	24138.5
77.5°	457.2	421.3	756.5	845.1	981.5	1197.0	1536.9	7306.4	12982.5	13248.3
80°	284.9	294.5	600.9	679.9	754.1	603.3	703.8	2812.9	4500.7	4275.6
82.5°	16.8	38.3	462.0	490.8	517.1	258.5	265.7	955.2	1084.5	995.9
85°	0.0	0.0	210.7	170.0	179.5	74.2	76.6	222.6	146.0	158.0
87.5°	0.0	0.0	0.0	4.8	0.0	7.2	14.4	19.2	7.2	9.6
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°
4445.6	0°	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6	4445.6
4673.0	2.5°	4505.5	4337.9	3997.9	3665.2	3394.7	3143.3	2963.7	2793.8	2707.6	2702.8
4974.7	5°	4641.9	4290.0	3610.1	3009.2	2525.6	2137.8	1886.5	1706.9	1615.9	1584.8
5345.7	7.5°	4833.4	4304.4	3270.2	2434.7	1864.9	1532.1	1388.5	1331.1	1311.9	1290.4
5764.7	10°	5075.2	4337.9	2966.1	1960.7	1469.9	1302.3	1244.9	1220.9	1206.6	1192.2
6236.3	12.5°	5345.7	4369.0	2664.5	1627.9	1292.7	1206.6	1165.9	1137.1	1118.0	1101.2
6719.9	15°	5609.1	4388.2	2350.9	1395.7	1201.8	1132.4	1089.3	1058.1	1031.8	1012.7
7193.9	17.5°	5870.0	4414.5	2056.4	1256.8	1127.6	1058.1	1015.0	976.7	955.2	933.7
7691.8	20°	6159.7	4409.7	1778.7	1158.7	1053.3	983.9	938.4	902.5	881.0	857.0
8218.5	22.5°	6427.8	4385.8	1534.5	1074.9	976.7	909.7	859.4	823.5	802.0	782.8
8757.2	25°	6736.6	4366.6	1331.1	998.3	904.9	837.9	782.8	749.3	725.4	708.6
9298.2	27.5°	7033.5	4337.9	1182.6	928.9	835.5	770.9	718.2	679.9	658.3	646.4
9856.0	30°	7325.6	4330.7	1127.6	861.8	773.3	708.6	655.9	620.0	603.3	598.5
10468.9	32.5°	7677.5	4349.9	1151.5	837.9	715.8	651.2	600.9	574.6	557.8	557.8
11151.1	35°	8053.3	4345.1	1187.4	859.4	677.5	593.7	555.4	538.6	521.9	521.9
11907.6	37.5°	8524.9	4352.2	1216.1	895.3	663.1	545.8	524.3	502.7	493.2	493.2
12735.9	40°	9228.8	4589.3	1201.8	926.5	658.3	512.3	469.2	462.0	454.9	454.9
13672.0	42.5°	10090.6	5104.0	1220.9	928.9	655.9	488.4	430.9	445.3	428.5	426.1
14727.7	45°	11033.8	5666.5	1343.0	878.6	653.6	476.4	411.8	428.5	402.2	402.2
15951.1	47.5°	11969.9	6224.3	1467.5	806.8	646.4	474.0	395.0	385.4	378.2	380.6
17545.4	50°	13260.2	6679.2	1515.4	708.6	629.6	469.2	363.9	366.3	361.5	366.3
19793.4	52.5°	14665.5	6775.0	1457.9	598.5	581.7	454.9	342.3	351.9	349.5	354.3
21375.8	55°	15541.7	6672.0	1204.2	497.9	507.5	397.4	320.8	339.9	339.9	339.9
22922.3	57.5°	16446.6	6233.9	854.6	404.6	421.3	325.6	301.6	328.0	325.6	323.2
24784.8	60°	17097.8	5525.3	562.6	332.8	335.2	268.1	280.1	308.8	306.4	294.5
26704.8	62.5°	17583.7	4742.5	361.5	282.5	256.2	241.8	256.2	280.1	270.5	244.2
28332.7	65°	17528.7	3658.0	277.7	241.8	210.7	210.7	222.6	244.2	215.5	172.4
28643.9	67.5°	16506.5	2475.4	229.8	203.5	177.2	174.8	184.3	203.5	184.3	146.0
27049.5	70°	14679.9	1618.3	184.3	158.0	141.2	129.3	148.4	174.8	155.6	117.3
23027.6	72.5°	11914.8	986.3	138.9	114.9	102.9	83.8	117.3	143.6	124.5	86.2
16013.3	75°	7708.6	502.7	95.8	74.2	55.1	50.3	86.2	107.7	86.2	52.7
7105.3	77.5°	2949.4	210.7	52.7	33.5	28.7	23.9	47.9	64.6	35.9	12.0
1376.5	80°	567.4	88.6	26.3	16.8	14.4	9.6	7.2	4.8	0.0	0.0
244.2	82.5°	98.2	28.7	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
47.9	85°	33.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.8	87.5°	12.0	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>
4445.6
2698.0
1580.0
1285.6
1187.4
1096.4
1010.3
931.3
854.6
780.4
706.2
646.4
596.1
557.8
521.9
493.2
454.9
423.7
402.2
380.6
366.3
354.3
339.9
323.2
294.5
239.4
167.6
141.2
112.5
81.4
45.5
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