

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: P941974

Luminaire Tested: **GALN-SB5D-735-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

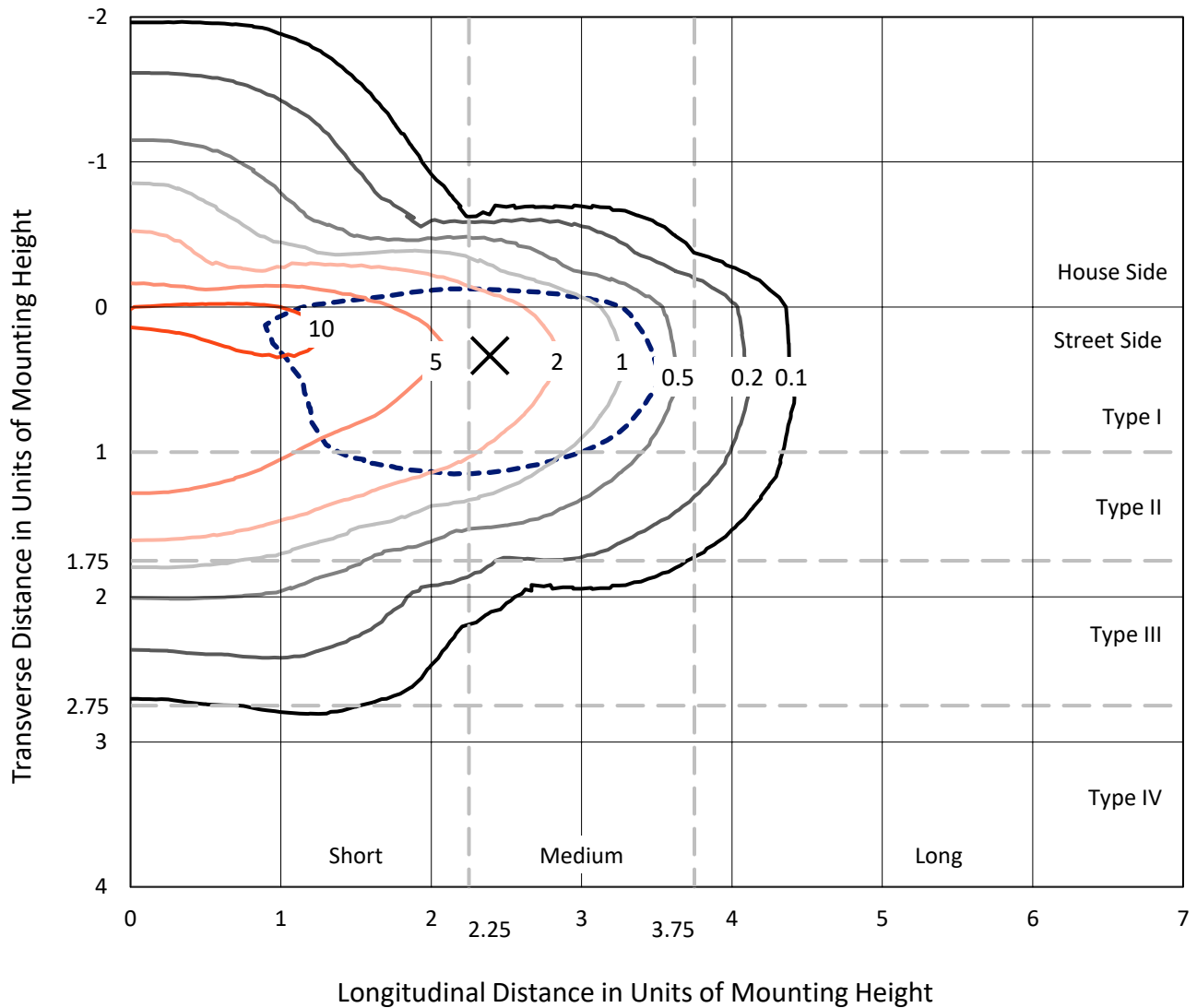
Lumens per Lamp: N/A  
Luminaire Lumens: 37536 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

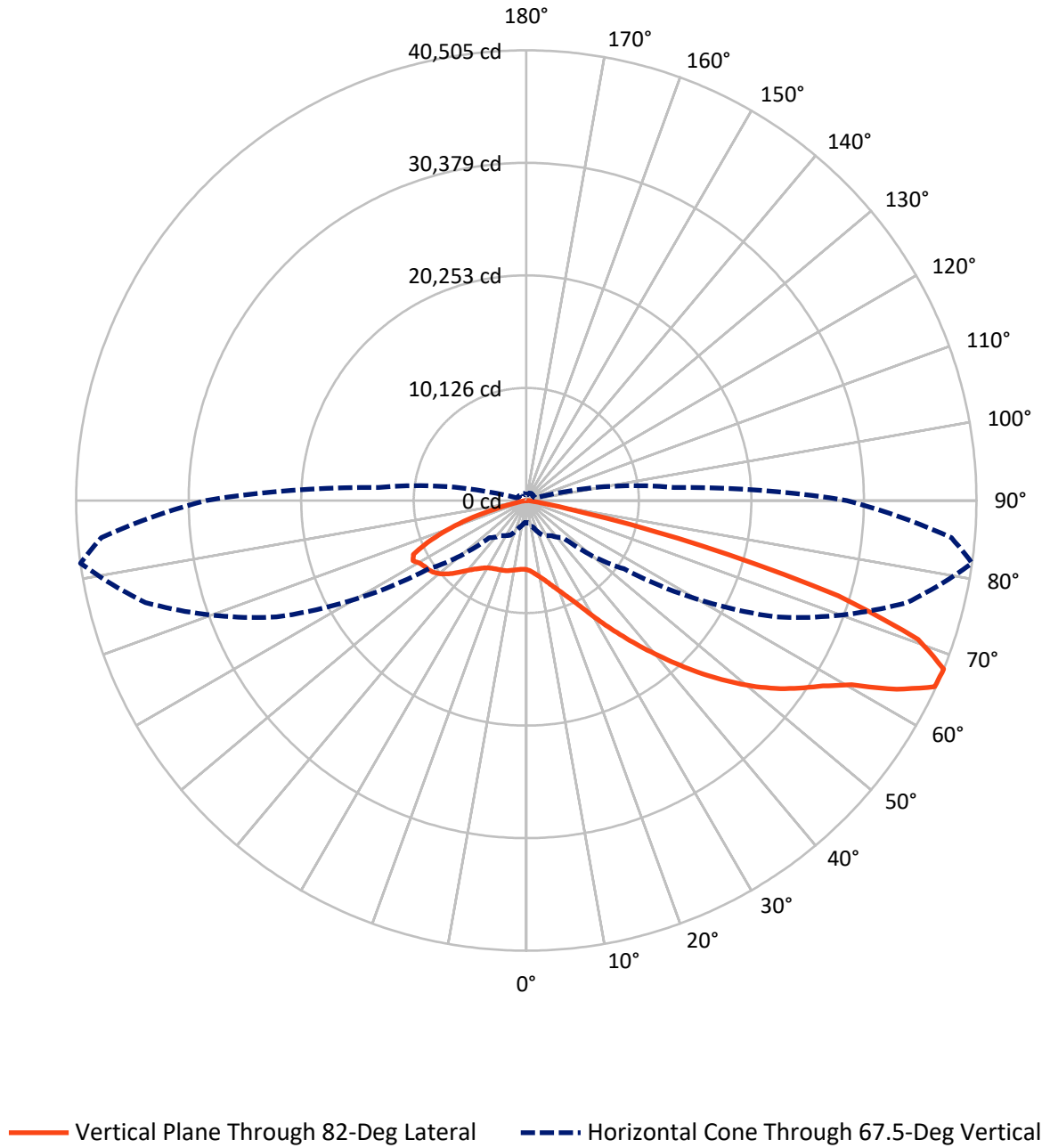
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	6799.3	0.0	6799.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	30736.7	0.0	30736.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	37536.0	0.0	37536.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.0	1.5
10°-20°	1439.7	3.8
20°-30°	2305.9	6.1
30°-40°	4077.5	10.9
40°-50°	7144.2	19.0
50°-60°	9528.4	25.4
60°-70°	8870.4	23.6
70°-80°	3404.5	9.1
80°-90°	211.4	0.6
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°	37536.0	100.0
0°-180°	37536.0	100.0

**Coefficient of Utilization**



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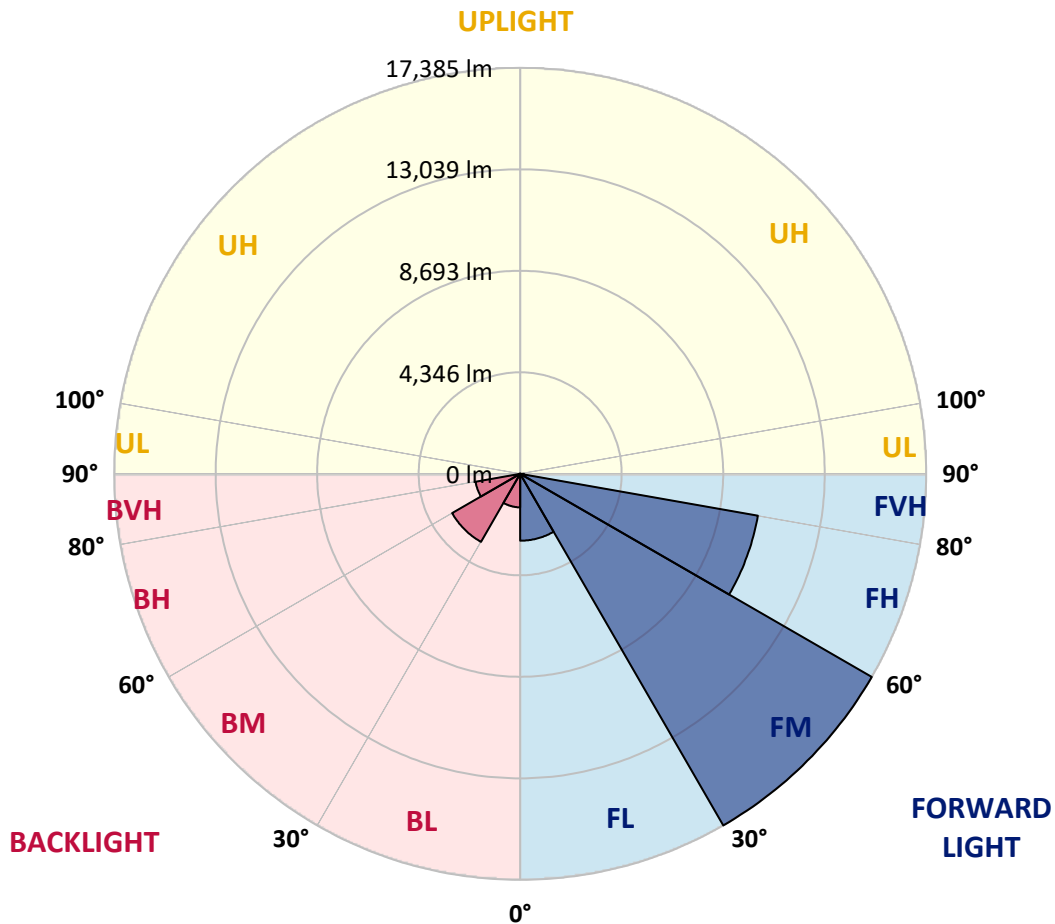
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2863.6	7.6			
FM (30°-60°)	17385.1	46.3			
FH (60°-80°)	10334.2	27.5			G4/12000
FVH (80°-90°)	153.7	0.4			G2/225
BL (0°-30°)	1436.0	3.8	B3/2500		
BM (30°-60°)	3365.0	9.0	B3/5000		
BH (60°-80°)	1940.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	57.7	0.2			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4
2.5°	6572.5	6610.3	6588.7	6577.9	6559.0	6531.9	6510.3	6442.8	6372.5	6326.5
5°	6704.9	6742.7	6740.0	6750.8	6764.3	6772.5	6767.1	6691.4	6591.4	6513.0
7.5°	6591.4	6634.6	6669.8	6723.8	6818.4	6918.4	6967.0	6950.8	6848.1	6740.0
10°	6269.8	6315.7	6399.5	6526.5	6726.5	6942.7	7123.8	7207.6	7142.7	7023.8
12.5°	5680.6	5726.6	5891.4	6167.1	6502.2	6877.9	7223.8	7448.1	7464.3	7345.4
15°	5018.5	5064.5	5240.1	5586.1	6096.8	6699.5	7277.8	7702.1	7845.3	7742.7
17.5°	4607.8	4648.3	4780.7	5059.1	5591.5	6342.8	7258.9	7972.4	8299.4	8218.3
20°	4483.4	4518.6	4580.7	4775.3	5218.5	5972.5	7134.6	8226.4	8788.5	8742.6
22.5°	4615.9	4648.3	4667.2	4753.7	5032.0	5729.3	6977.8	8485.8	9356.0	9361.4
25°	4921.2	4953.7	4932.1	4986.1	5107.7	5653.6	6918.4	8791.2	10069.5	10129.0
27.5°	5423.9	5426.6	5375.3	5372.6	5391.5	5767.1	6980.5	9118.2	10969.4	11080.2
30°	6431.9	6391.4	6194.1	5980.6	5883.3	6107.6	7153.5	9504.7	12031.5	12228.8
32.5°	7985.9	7926.4	7564.3	7053.5	6540.0	6656.2	7464.3	9945.2	13188.2	13544.9
35°	9672.2	9656.0	9277.7	8518.3	7621.0	7437.3	7969.7	10523.5	14450.2	15017.8
37.5°	11239.7	11231.6	11015.4	10120.9	9029.0	8526.4	8780.4	11280.2	15801.5	16623.1
40°	12672.0	12696.3	12480.1	11680.2	10580.3	9923.6	9883.0	12215.3	17304.1	18371.6
42.5°	13909.8	13936.8	13717.9	13126.0	12112.6	11469.4	11237.0	13361.1	18771.5	20249.8
45°	14750.2	14917.8	14885.4	14412.4	13685.4	13017.9	12863.9	14798.9	20444.4	22241.5
47.5°	14988.0	15142.1	15385.3	15450.2	15007.0	14350.3	14534.0	16531.2	22136.2	24236.0
50°	14401.6	14544.8	15050.2	15723.1	16031.2	15828.5	16158.2	18387.8	23868.5	26225.0
52.5°	13244.9	13390.9	14028.7	15093.4	16350.1	16987.9	17787.8	20217.4	25546.7	28108.7
55°	11572.1	11726.1	12545.0	13750.3	15742.0	17466.2	19147.2	22044.3	27084.4	29803.1
57.5°	9296.6	9410.1	10261.4	11947.7	14212.4	16990.6	20149.8	24038.7	28533.0	31467.9
60°	6059.0	6159.0	7148.1	9029.0	11677.5	15401.5	20349.8	26262.9	30457.1	33632.6
62.5°	4029.4	4097.0	4683.4	6064.4	8223.7	12350.4	19179.6	28038.4	33278.5	37399.9
65°	2764.7	2832.2	3418.7	4380.7	5313.1	8169.6	15815.0	27803.3	35835.1	40391.5
67.5°	1972.8	2029.6	2526.8	3434.9	3845.7	4745.6	10720.8	24798.1	35467.6	40505.0
70°	1413.4	1445.8	1856.6	2675.5	3056.5	2851.1	5961.7	18966.1	31054.4	37402.6
72.5°	989.1	999.9	1289.1	2037.7	2462.0	2080.9	2837.6	12645.0	23487.4	29357.2
75°	670.2	683.7	867.5	1494.5	1975.5	1589.1	1502.6	6780.6	13788.1	16250.1
77.5°	410.8	416.2	559.4	1021.5	1478.3	1210.7	967.5	2872.8	5334.7	5237.4
80°	232.4	232.4	356.7	635.1	1008.0	781.0	678.3	1221.5	1689.1	1483.7
82.5°	129.7	132.4	259.4	394.6	667.5	462.1	372.9	564.8	729.7	645.9
85°	54.0	59.5	159.4	186.5	318.9	229.7	151.3	237.8	270.2	240.5
87.5°	5.4	8.1	48.6	35.1	37.8	45.9	21.6	45.9	37.8	37.8
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°
6218.4	0°	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4	6218.4
6310.3	2.5°	6259.0	6218.4	6115.8	5996.8	5840.1	5764.4	5661.7	5591.5	5532.0	5537.4
6467.1	5°	6380.6	6277.9	6048.2	5761.7	5405.0	5151.0	4880.7	4694.2	4542.9	4510.5
6683.3	7.5°	6548.1	6386.0	5983.3	5467.2	4864.5	4407.8	3999.7	3737.6	3551.1	3491.6
6945.4	10°	6764.3	6529.2	5899.6	5096.9	4229.4	3648.4	3210.6	3005.2	2878.2	2834.9
7253.5	12.5°	7015.7	6694.1	5788.7	4645.6	3575.4	3016.0	2737.6	2634.9	2594.4	2580.9
7631.9	15°	7331.9	6899.5	5621.2	4110.5	3021.4	2629.5	2510.6	2497.1	2502.5	2497.1
8085.9	17.5°	7707.5	7123.8	5348.2	3559.2	2648.4	2432.2	2389.0	2399.8	2413.3	2410.6
8593.9	20°	8118.3	7345.4	4999.6	3070.0	2394.4	2291.7	2267.4	2278.2	2289.0	2283.6
9180.4	22.5°	8585.8	7583.2	4613.2	2689.0	2224.2	2162.0	2135.0	2137.7	2137.7	2126.9
9923.6	25°	9145.2	7845.3	4207.8	2418.7	2094.4	2045.8	2013.4	2002.6	1986.3	1953.9
10826.2	27.5°	9812.8	8123.7	3818.6	2229.6	1991.7	1945.8	1908.0	1880.9	1840.4	1786.4
11909.9	30°	10564.1	8461.5	3488.9	2110.6	1910.7	1864.7	1821.5	1780.9	1721.5	1653.9
13155.8	32.5°	11447.8	8823.7	3248.4	2032.3	1837.7	1789.1	1737.7	1689.1	1624.2	1556.6
14555.6	35°	12501.7	9261.5	3107.9	1978.2	1780.9	1716.1	1659.3	1605.3	1556.6	1497.2
16077.2	37.5°	13644.9	9726.3	3064.6	1951.2	1743.1	1643.1	1578.3	1540.4	1535.0	1499.9
17723.0	40°	14896.2	10277.6	3097.1	1935.0	1702.6	1572.9	1502.6	1494.5	1508.0	1445.8
19482.3	42.5°	16220.4	10931.6	3151.1	1916.1	1645.8	1502.6	1435.0	1435.0	1424.2	1337.7
21341.6	45°	17652.7	11685.6	3205.2	1870.1	1578.3	1432.3	1381.0	1362.1	1316.1	1232.3
23211.7	47.5°	19095.8	12453.1	3245.7	1786.4	1497.2	1372.9	1326.9	1283.7	1216.1	1140.5
25046.7	50°	20466.0	13142.2	3202.5	1662.0	1405.3	1316.1	1267.5	1208.0	1135.0	1083.7
26784.4	52.5°	21690.2	13739.5	3018.7	1516.1	1308.0	1256.7	1213.4	1151.3	1091.8	1037.8
28351.9	55°	22755.0	14223.2	2694.4	1378.3	1221.5	1205.3	1162.1	1083.7	1002.6	956.7
29905.8	57.5°	23776.6	14590.8	2289.0	1264.8	1143.2	1148.6	1083.7	1013.4	937.8	889.1
32000.3	60°	25135.9	15082.6	1878.2	1159.4	1059.4	1075.6	1005.3	954.0	859.4	797.2
35591.9	62.5°	27308.7	15847.4	1491.8	1029.7	962.1	967.5	937.8	875.6	762.1	689.1
38253.8	65°	29032.9	15566.4	1175.6	889.1	851.3	859.4	859.4	791.8	670.2	586.4
<b>38397.1</b>	<b>67.5°</b>	<b>28838.3</b>	<b>13328.7</b>	<b>937.8</b>	<b>751.3</b>	<b>745.9</b>	<b>751.3</b>	<b>770.2</b>	<b>713.5</b>	<b>594.5</b>	<b>527.0</b>
35473.0	70°	26565.5	10601.9	751.3	624.3	648.6	635.1	689.1	651.3	535.1	467.5
27500.6	72.5°	21676.7	7637.3	572.9	516.2	497.3	518.9	621.6	586.4	445.9	370.2
14566.5	75°	12666.6	4075.4	427.0	408.1	359.4	432.4	551.3	500.0	340.5	273.0
4464.5	77.5°	4124.0	1421.5	313.5	300.0	267.5	348.6	470.2	421.6	278.4	216.2
1308.0	80°	1105.3	429.7	213.5	197.3	173.0	259.4	372.9	335.1	200.0	140.5
562.1	82.5°	443.2	181.1	124.3	110.8	94.6	178.4	294.6	270.2	148.6	89.2
175.7	85°	143.2	59.5	45.9	35.1	43.2	110.8	175.7	183.8	105.4	45.9
27.0	87.5°	18.9	8.1	8.1	10.8	8.1	18.9	54.0	51.3	29.7	5.4
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>
6218.4
5483.4
4437.5
3432.2
2802.5
2572.8
2494.4
2405.2
2280.9
2121.5
1948.5
1780.9
1648.5
1559.3
1491.8
1497.2
1448.5
1337.7
1229.6
1137.8
1075.6
1032.4
951.3
883.7
789.1
683.7
578.3
516.2
459.4
362.1
264.8
208.1
137.8
89.2
35.1
0.0
0.0

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