

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: P951693

Luminaire Tested: **GALN-SB5D-735-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
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-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

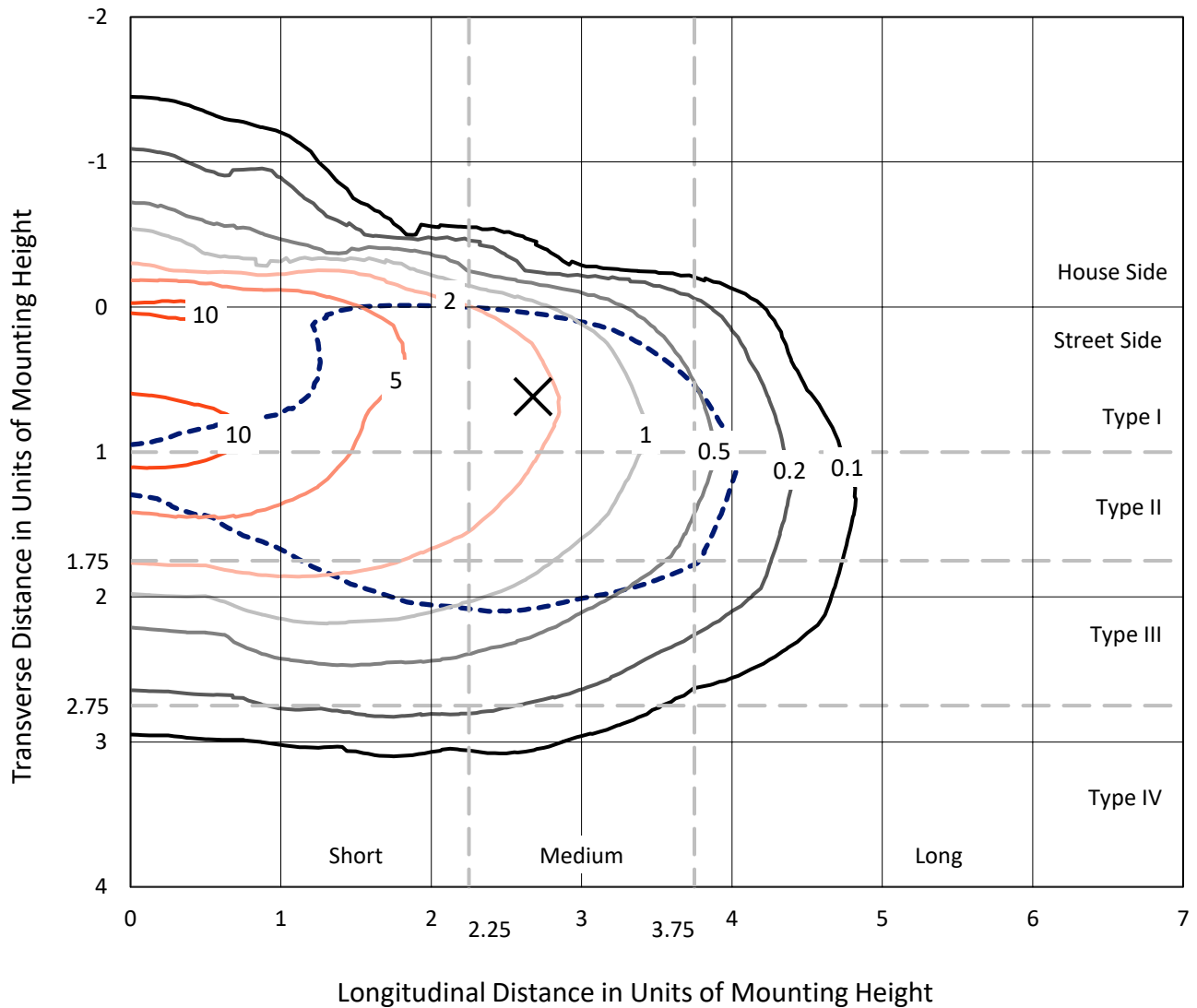
Lumens per Lamp: N/A  
Luminaire Lumens: 42795 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

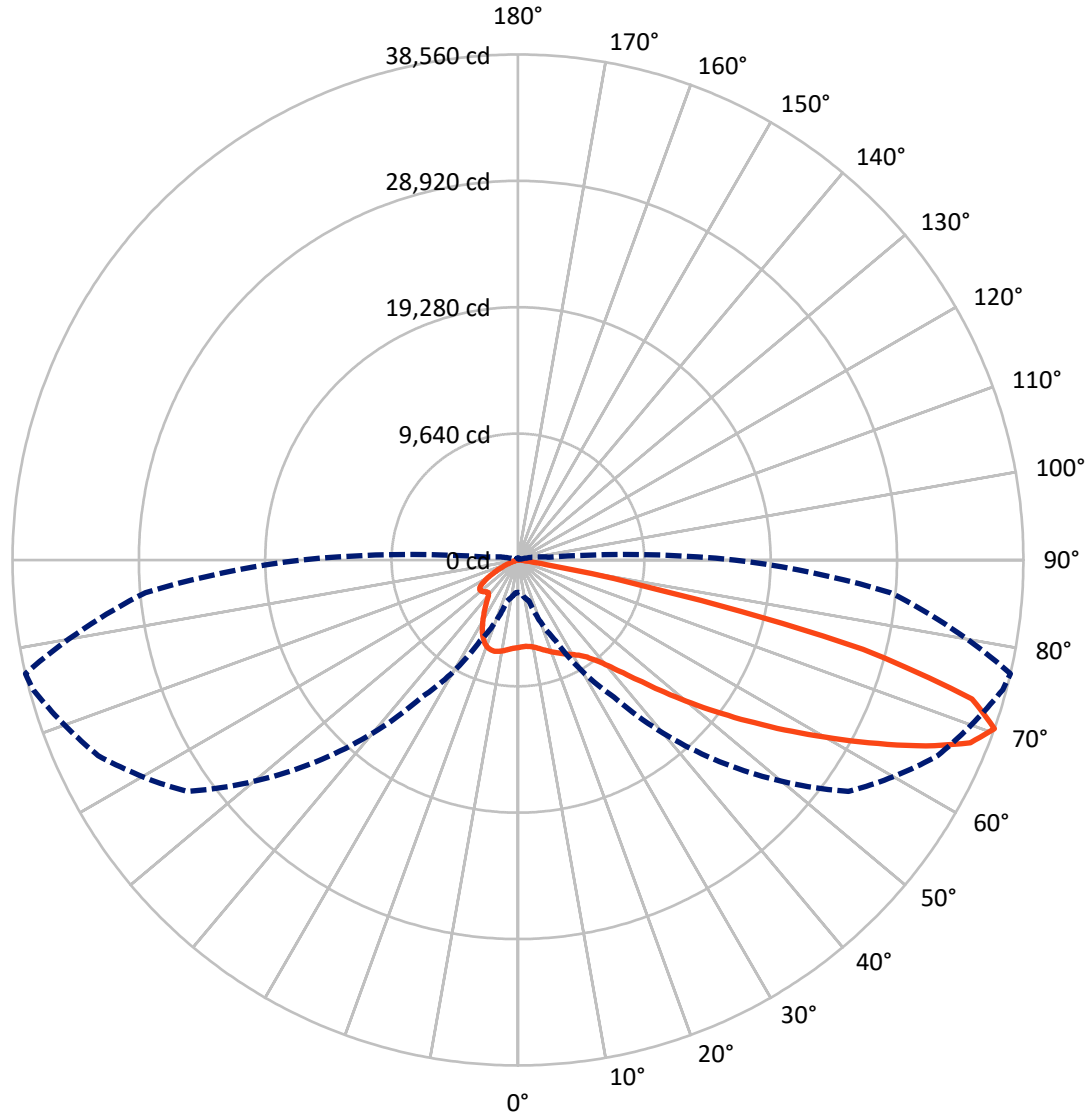
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4511.2	0.0	4511.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	38283.8	0.0	38283.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	42795.0	0.0	42795.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	575.3	1.3
10°-20°	1365.7	3.2
20°-30°	2112.4	4.9
30°-40°	3833.0	9.0
40°-50°	7235.2	16.9
50°-60°	10454.3	24.4
60°-70°	11128.3	26.0
70°-80°	5897.2	13.8
80°-90°	193.6	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°	42795.0	100.0
0°-180°	42795.0	100.0



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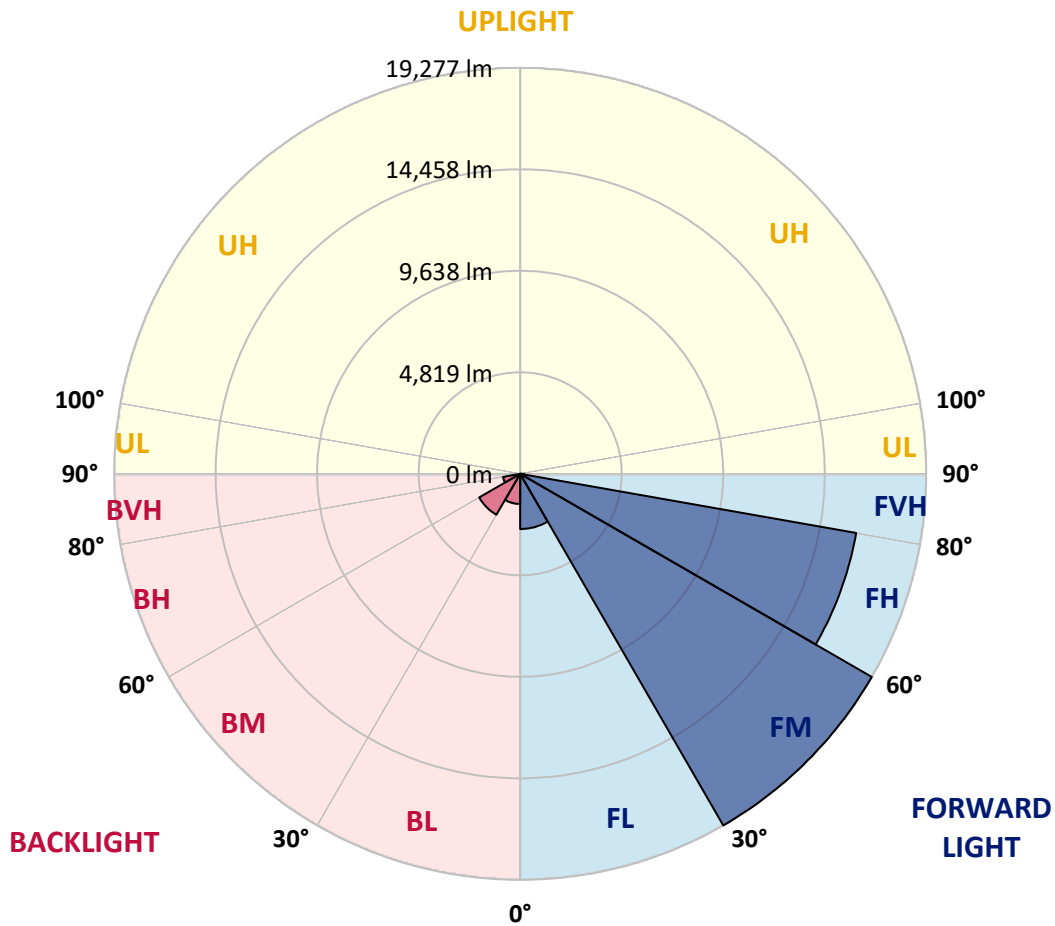
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2620.1	6.1			
FM (30°-60°)	19276.8	45.0			
FH (60°-80°)	16198.5	37.9			G5
FVH (80°-90°)	188.4	0.4			G2/225
BL (0°-30°)	1433.3	3.3	B3/2500		
BM (30°-60°)	2245.7	5.2	B2/2500		
BH (60°-80°)	827.0	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2
2.5°	6267.2	6323.9	6315.8	6353.6	6367.2	6421.2	6475.3	6548.2	6629.3	6626.6
5°	5913.1	5969.9	5983.4	6034.7	6099.6	6183.4	6294.2	6440.1	6591.5	6615.8
7.5°	5494.2	5553.7	5588.8	5691.5	5810.4	5983.4	6164.5	6378.0	6629.3	6664.4
10°	5075.3	5129.4	5175.3	5321.3	5510.5	5767.2	6061.8	6369.9	6707.7	6759.0
12.5°	4815.9	4867.3	4918.6	5045.6	5280.7	5594.2	5994.2	6407.7	6837.4	6910.4
15°	4724.0	4770.0	4810.5	4924.0	5142.9	5499.6	5980.7	6486.1	7002.3	7099.5
17.5°	4737.5	4761.9	4788.9	4875.4	5088.9	5456.4	6005.0	6621.2	7196.8	7283.3
20°	4815.9	4829.4	4832.1	4891.6	5080.8	5451.0	6053.7	6750.9	7380.6	7496.8
22.5°	4915.9	4921.3	4915.9	4956.4	5132.1	5491.5	6118.5	6907.7	7586.0	7694.1
25°	5383.4	5280.7	5151.0	5072.6	5218.6	5569.9	6215.8	7118.5	7810.3	7915.7
27.5°	6834.7	6540.1	6075.3	5553.7	5397.0	5683.4	6350.9	7332.0	8037.3	8131.9
30°	9191.3	8804.8	8015.7	6840.1	5969.9	5921.2	6526.6	7545.5	8277.8	8380.5
32.5°	11553.3	11458.7	10548.0	8921.0	7259.0	6450.9	6818.5	7834.6	8596.7	8677.8
35°	13942.3	13750.5	13004.6	11396.6	9245.4	7529.2	7304.9	8213.0	9015.6	9107.5
37.5°	15772.0	15655.8	15193.6	13869.4	11602.0	9194.0	8137.3	8799.4	9623.7	9726.4
40°	17388.1	17334.0	17177.3	16304.4	14236.9	11372.2	9431.8	9707.5	10466.9	10588.5
42.5°	18658.3	18785.3	18874.5	18631.2	16953.0	13858.6	11172.3	10983.1	11642.5	11766.8
45°	19958.2	20001.4	20360.9	20712.2	19650.1	16458.4	13134.3	12477.6	13104.6	13258.6
47.5°	20793.3	20966.2	21598.6	22217.5	21917.5	19036.6	15242.3	14242.3	14799.0	15088.2
50°	20855.4	21182.4	22052.6	23130.9	23568.8	21490.5	17534.0	16253.0	16844.9	17163.8
52.5°	19820.3	20328.4	21677.0	23255.3	24460.6	23568.8	19904.1	18263.7	19023.1	19439.3
55°	15196.3	15861.1	20263.6	22579.6	24495.7	25144.3	22212.1	20358.2	21450.0	21920.2
57.5°	13239.7	13574.8	15931.4	21406.7	23844.4	25779.4	24298.4	22352.6	24090.3	24674.1
60°	11015.5	11456.0	13361.3	19487.9	22960.7	25841.6	26141.6	24925.4	26952.3	27609.0
62.5°	7486.0	7964.4	9858.8	16190.9	21752.7	25811.9	27652.3	27573.9	30133.2	30838.6
65°	4637.5	4937.5	6186.1	13220.8	20063.6	25844.3	29233.3	30789.9	33489.7	34205.9
67.5°	3664.6	3802.5	4453.8	10150.7	17153.0	25114.6	30811.5	33814.0	36649.0	37216.5
70°	2462.0	2545.8	3240.3	6805.0	12761.3	21747.3	30781.8	35332.9	38275.9	38559.7
72.5°	1297.2	1362.1	1894.5	3151.1	7707.6	15458.5	25947.0	33516.8	36657.1	36230.1
75°	648.6	756.7	1275.6	1599.9	3291.7	8621.1	16112.5	26425.3	28852.2	27198.3
77.5°	491.9	594.6	1054.0	1054.0	1145.9	2902.5	6823.9	14412.6	13293.7	11069.6
80°	313.5	405.4	921.6	797.2	478.3	737.8	1778.3	4037.6	2824.1	2148.5
82.5°	183.8	264.8	767.5	527.0	267.6	273.0	502.7	859.4	732.4	570.2
85°	73.0	173.0	527.0	208.1	105.4	67.6	151.3	183.8	151.3	113.5
87.5°	0.0	40.5	91.9	0.0	8.1	5.4	10.8	13.5	13.5	10.8
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°
6675.2	0°	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2	6675.2
6680.7	2.5°	6705.0	6710.4	6726.6	6729.3	6691.5	6642.8	6623.9	6615.8	6583.4	6580.7
6723.9	5°	6786.1	6810.4	6786.1	6715.8	6548.2	6313.1	6134.7	5988.8	5856.4	5815.8
6872.5	7.5°	6948.2	6972.5	6899.6	6623.9	6202.3	5734.8	5313.2	5015.9	4748.3	4648.4
7053.6	10°	7180.6	7213.1	6983.3	6426.6	5680.7	4929.4	4215.9	3713.3	3321.4	3162.0
7299.5	12.5°	7472.5	7486.0	7029.3	6126.6	5002.4	3929.5	2918.7	2380.9	2032.3	1902.6
7596.8	15°	7794.1	7775.2	7034.7	5718.6	4078.1	2778.2	1905.3	1564.8	1424.2	1381.0
7894.1	17.5°	8131.9	8053.5	6926.6	5129.4	3064.7	1899.9	1413.4	1332.3	1308.0	1297.2
8188.7	20°	8464.3	8288.7	6729.3	4359.2	2199.9	1418.8	1283.7	1259.4	1245.9	1240.5
8485.9	22.5°	8767.0	8467.0	6391.5	3464.6	1597.2	1254.0	1213.4	1191.8	1167.5	1156.7
8775.1	25°	9061.6	8569.7	5915.8	2629.6	1278.3	1172.9	1140.5	1099.9	1067.5	1054.0
9085.9	27.5°	9348.0	8634.6	5321.3	1945.8	1140.5	1097.2	1037.8	981.0	956.7	951.3
9418.3	30°	9653.4	8656.2	4645.6	1451.3	1056.7	1002.6	916.2	851.3	837.8	840.5
9866.9	32.5°	10026.4	8688.6	3964.6	1189.1	986.4	889.1	786.4	718.9	708.1	718.9
10520.9	35°	10472.3	8753.5	3307.9	1094.5	924.3	772.9	662.1	605.4	594.6	602.7
11358.7	37.5°	11077.7	8858.9	2694.4	1075.6	872.9	675.6	556.7	510.8	510.8	513.5
12385.7	40°	11883.0	9140.0	2145.8	1062.1	845.9	602.7	470.2	451.3	459.4	464.8
13693.7	42.5°	12864.0	9737.2	1775.6	1045.9	816.2	570.2	427.0	418.9	432.4	437.8
15261.2	45°	13964.0	10493.9	1645.8	1018.9	789.1	591.9	408.1	397.3	413.5	416.2
17017.8	47.5°	15101.7	11234.4	1629.6	989.1	762.1	624.3	402.7	378.4	397.3	400.0
18893.4	50°	16253.0	11718.2	1645.8	943.2	718.9	624.3	405.4	359.4	375.7	383.8
20839.2	52.5°	17412.4	11939.8	1635.0	843.2	643.2	586.4	405.4	343.2	359.4	364.8
22941.8	55°	18536.6	11896.5	1470.2	694.6	545.9	518.9	394.6	329.7	340.5	343.2
24928.1	57.5°	19425.8	11293.9	1164.8	540.5	443.2	432.4	359.4	313.5	321.6	318.9
26749.6	60°	19890.6	9969.6	832.4	416.2	348.6	340.5	316.2	291.9	297.3	283.8
28292.8	62.5°	19896.0	8218.4	556.7	329.7	278.4	270.3	270.3	262.1	256.7	229.7
29487.3	65°	19471.7	6275.3	370.2	262.1	224.3	210.8	227.0	224.3	205.4	167.6
29852.1	67.5°	18509.6	4113.2	281.1	205.4	173.0	164.9	181.1	189.2	175.7	140.5
28522.5	70°	16531.4	2394.4	232.4	159.4	129.7	121.6	145.9	162.2	145.9	113.5
24379.5	72.5°	13731.6	1291.8	189.2	118.9	89.2	81.1	116.2	132.4	116.2	83.8
15642.2	75°	8910.2	691.8	145.9	78.4	45.9	51.3	86.5	97.3	81.1	54.1
4591.6	77.5°	2991.7	305.4	91.9	37.8	21.6	21.6	51.3	59.5	37.8	18.9
835.1	80°	667.5	127.0	37.8	16.2	8.1	8.1	10.8	10.8	5.4	0.0
256.7	82.5°	218.9	51.3	16.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0
64.9	85°	83.8	18.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.6	87.5°	32.4	2.7	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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180°
6675.2
6586.1
5791.5
4607.8
3094.4
1862.0
1381.0
1294.5
1235.1
1154.0
1048.6
945.9
840.5
716.2
600.0
510.8
464.8
437.8
418.9
402.7
386.5
364.8
343.2
318.9
281.1
221.6
162.2
137.8
108.1
81.1
48.6
16.2
0.0
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