

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: P953222

Luminaire Tested: **GALN-SB6D-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953222
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-SB6D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA 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: 46947 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

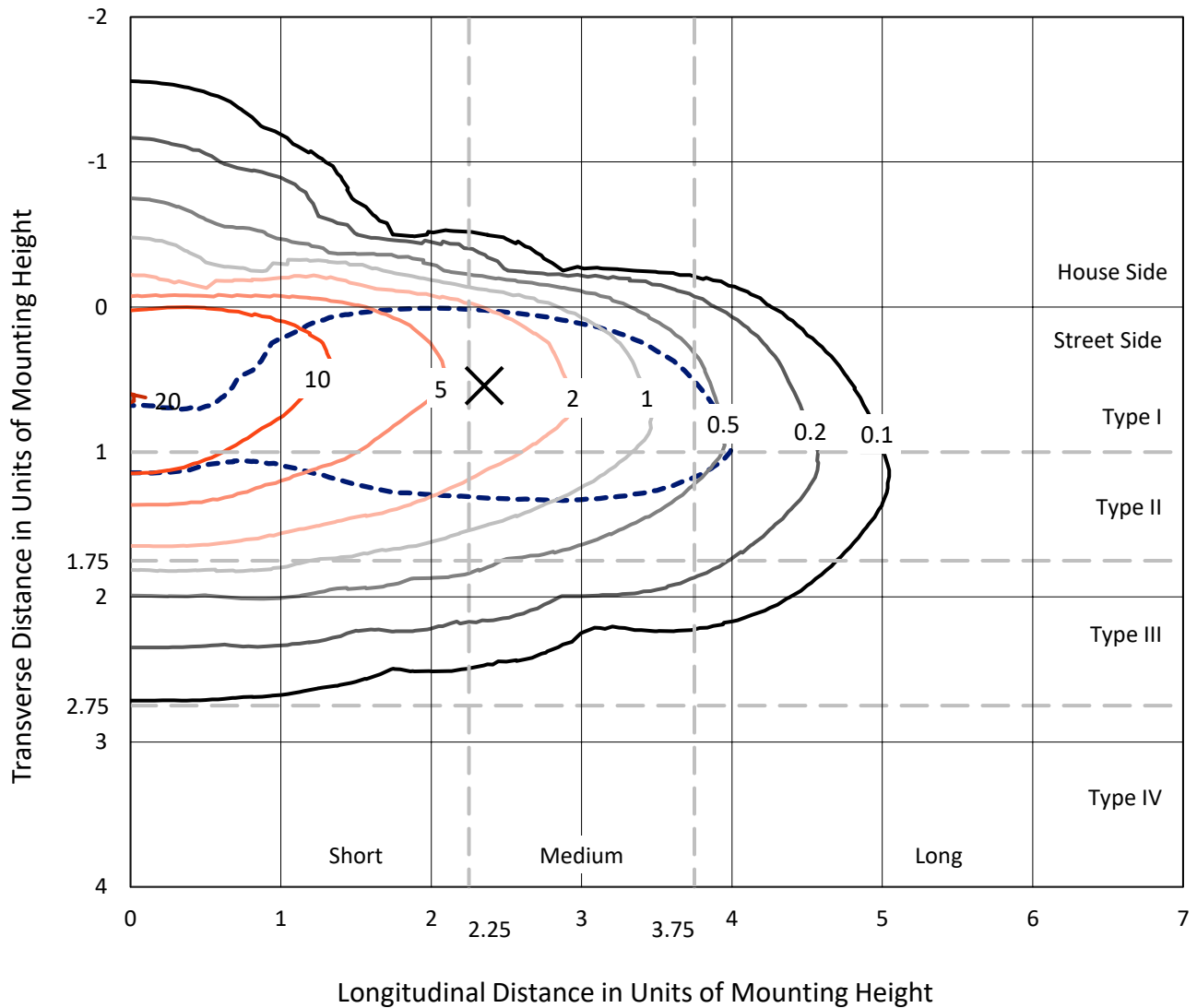
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

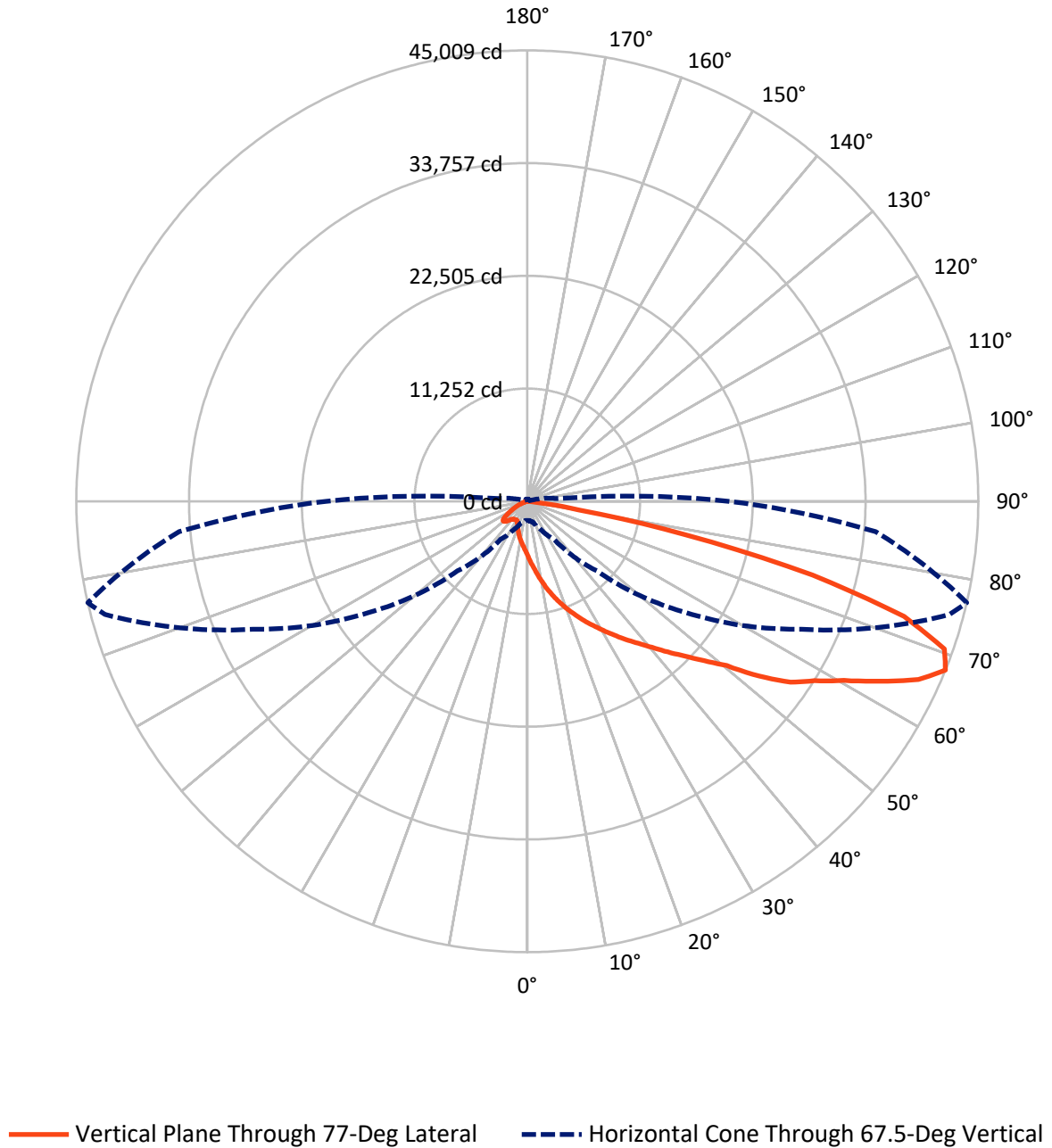
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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	3453.9	0.0	3453.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	43493.1	0.0	43493.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	46947.0	0.0	46947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.5	1.2
10°-20°	1935.0	4.1
20°-30°	3734.0	8.0
30°-40°	6482.4	13.8
40°-50°	9412.1	20.0
50°-60°	10808.6	23.0
60°-70°	9383.9	20.0
70°-80°	4419.9	9.4
80°-90°	218.6	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°	46947.0	100.0
0°-180°	46947.0	100.0

Coefficient of Utilization



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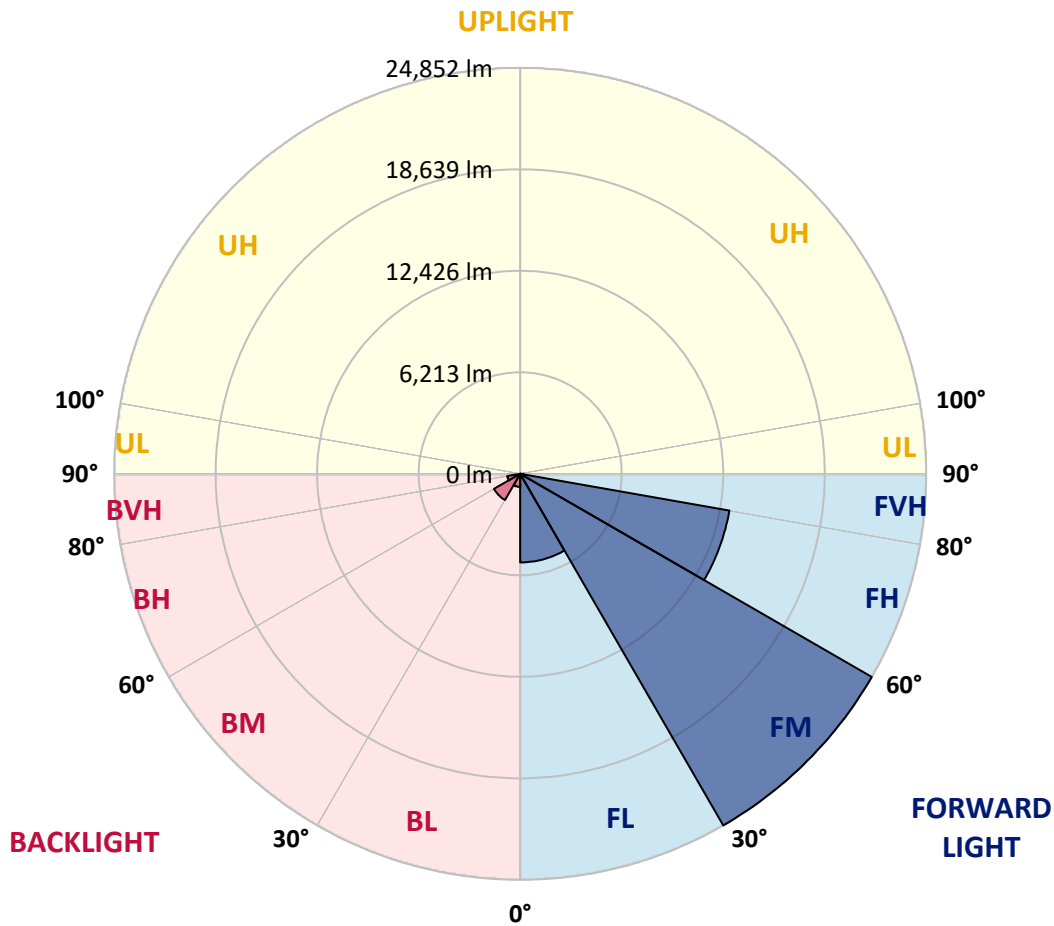
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5421.9	11.5			
FM (30°-60°)	24852.5	52.9			
FH (60°-80°)	13004.2	27.7			G5
FVH (80°-90°)	214.6	0.5			G2/225
BL (0°-30°)	799.6	1.7	B2/1000		
BM (30°-60°)	1850.6	3.9	B2/2500		
BH (60°-80°)	799.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.0	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
2.5°	7495.2	7541.8	7474.8	7346.5	7154.1	7028.7	6722.6	6434.0	6113.3	6011.3
5°	9136.5	9177.3	9101.5	8961.6	8705.0	8460.1	8057.8	7454.4	6827.6	6626.4
7.5°	10352.2	10375.5	10346.3	10218.1	9973.2	9696.2	9247.3	8533.0	7603.1	7381.5
10°	11226.8	11302.5	11293.8	11244.2	11081.0	10856.5	10378.4	9565.0	8471.8	8186.1
12.5°	11806.9	11891.4	11941.0	12051.8	12043.0	11900.2	11480.4	10620.4	9337.6	9002.4
15°	11976.0	12066.4	12255.8	12512.4	12739.8	12812.7	12518.2	11655.3	10290.9	9862.4
17.5°	11879.8	12019.7	12247.1	12652.3	13150.8	13480.3	13448.2	12655.2	11156.8	10667.0
20°	12092.6	12226.7	12404.5	12745.6	13325.8	13923.4	14162.4	13611.5	12016.8	11503.7
22.5°	13270.4	13247.0	13264.5	13319.9	13666.8	14258.6	14751.3	14480.2	12868.1	12343.3
25°	15136.1	15031.2	14853.4	14553.1	14465.6	14751.3	15264.4	15249.8	13766.0	13203.3
27.5°	17276.0	17258.5	16841.6	16118.6	15710.5	15599.7	15844.6	15999.1	14655.1	14054.6
30°	19325.4	19372.1	18809.4	18004.8	17255.6	16821.2	16599.6	16710.4	15558.9	14972.9
32.5°	21109.6	21159.1	20546.9	19605.3	18678.2	18153.5	17687.0	17413.0	16544.2	15905.8
35°	22616.8	22666.3	21963.7	20923.0	19934.7	19459.5	18931.8	18182.6	17535.4	16940.7
37.5°	23963.6	23949.0	23007.4	21957.9	20987.1	20611.0	20334.1	19130.1	18555.8	17981.5
40°	24759.5	24820.7	24016.1	22858.7	21917.1	21643.1	21625.6	20304.9	19733.5	19176.7
42.5°	24992.7	25100.6	24517.5	23567.1	22713.0	22415.6	22873.3	21576.0	21103.7	20561.5
45°	24572.9	24677.9	24412.6	23753.7	23255.2	23062.8	23946.1	22893.7	22567.2	22030.8
47.5°	23348.5	23479.7	23543.8	23403.9	23398.1	23593.4	24908.2	24281.4	24304.7	23756.6
50°	20978.4	21199.9	21788.8	22284.4	23051.1	24013.2	25844.0	25785.7	26263.8	25791.5
52.5°	16669.6	16984.4	19013.5	20369.1	22092.0	23934.5	26873.1	28199.5	29700.9	29010.0
55°	13395.7	13395.7	15045.8	17582.1	20220.4	23415.5	27322.0	29767.9	32041.9	31878.6
57.5°	10920.6	11051.8	12104.3	14346.1	17512.1	22179.5	27599.0	30753.3	33928.1	33808.5
60°	6740.1	7022.9	9011.1	11223.8	14430.6	19978.4	27424.1	31750.3	36216.6	36312.8
62.5°	3795.7	3900.6	4786.9	8075.3	11220.9	17019.4	26085.9	32307.2	39143.5	39551.6
65°	2620.8	2673.3	3014.4	5025.9	7778.0	13550.2	23470.9	31960.2	42076.3	42901.3
67.5°	1903.7	1929.9	2142.7	3069.8	4614.9	9824.5	19372.1	30211.1	43630.1	45009.0
70°	1463.5	1481.0	1635.5	2017.4	2725.8	6063.8	14069.2	26733.1	42504.8	44152.0
72.5°	1189.4	1206.9	1326.5	1492.6	1807.5	3585.8	8527.2	21710.1	37537.2	39315.5
75°	1002.9	1026.2	1134.0	1241.9	1416.8	2303.1	3999.8	15118.7	28228.7	29394.8
77.5°	556.8	513.1	921.2	1029.1	1195.3	1457.6	1871.6	8897.4	15809.6	16133.2
80°	346.9	358.6	731.7	827.9	918.3	734.7	857.1	3425.5	5480.7	5206.7
82.5°	20.4	46.6	562.6	597.6	629.7	314.9	323.6	1163.2	1320.6	1212.8
85°	0.0	0.0	256.5	207.0	218.6	90.4	93.3	271.1	177.8	192.4
87.5°	0.0	0.0	0.0	5.8	0.0	8.7	17.5	23.3	8.7	11.7
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°
5413.7	0°	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7	5413.7
5690.6	2.5°	5486.6	5282.5	4868.5	4463.3	4133.9	3827.8	3609.1	3402.1	3297.2	3291.4
6058.0	5°	5652.7	5224.2	4396.2	3664.5	3075.6	2603.3	2297.2	2078.6	1967.8	1929.9
6509.8	7.5°	5886.0	5241.7	3982.3	2964.8	2271.0	1865.8	1690.9	1620.9	1597.6	1571.3
7020.0	10°	6180.4	5282.5	3612.0	2387.6	1790.0	1585.9	1515.9	1486.8	1469.3	1451.8
7594.3	12.5°	6509.8	5320.4	3244.7	1982.4	1574.3	1469.3	1419.7	1384.8	1361.4	1341.0
8183.2	15°	6830.5	5343.7	2862.8	1699.6	1463.5	1378.9	1326.5	1288.6	1256.5	1233.2
8760.4	17.5°	7148.3	5375.8	2504.2	1530.5	1373.1	1288.6	1236.1	1189.4	1163.2	1137.0
9366.8	20°	7501.0	5369.9	2166.1	1411.0	1282.7	1198.2	1142.8	1099.1	1072.8	1043.7
10008.2	22.5°	7827.5	5340.8	1868.7	1309.0	1189.4	1107.8	1046.6	1002.9	976.6	953.3
10664.1	25°	8203.6	5317.5	1620.9	1215.7	1102.0	1020.3	953.3	912.5	883.3	862.9
11323.0	27.5°	8565.1	5282.5	1440.1	1131.1	1017.4	938.7	874.6	827.9	801.7	787.1
12002.2	30°	8920.8	5273.7	1373.1	1049.5	941.6	862.9	798.8	755.1	734.7	728.8
12748.5	32.5°	9349.3	5297.1	1402.3	1020.3	871.7	793.0	731.7	699.7	679.3	679.3
13579.4	35°	9807.0	5291.2	1446.0	1046.6	825.0	723.0	676.3	655.9	635.5	635.5
14500.6	37.5°	10381.3	5300.0	1481.0	1090.3	807.5	664.7	638.4	612.2	600.5	600.5
15509.3	40°	11238.4	5588.6	1463.5	1128.2	801.7	623.9	571.4	562.6	553.9	553.9
16649.2	42.5°	12287.9	6215.4	1486.8	1131.1	798.8	594.7	524.8	542.2	521.8	518.9
17934.8	45°	13436.5	6900.5	1635.5	1069.9	795.9	580.1	501.4	521.8	489.8	489.8
19424.5	47.5°	14576.4	7579.7	1787.1	982.5	787.1	577.2	481.0	469.4	460.6	463.5
21366.1	50°	16147.7	8133.6	1845.4	862.9	766.7	571.4	443.1	446.0	440.2	446.0
24103.6	52.5°	17859.0	8250.2	1775.4	728.8	708.4	553.9	416.9	428.5	425.6	431.5
26030.6	55°	18926.0	8124.9	1466.4	606.4	618.0	483.9	390.6	414.0	414.0	414.0
27913.8	57.5°	20028.0	7591.4	1040.8	492.7	513.1	396.5	367.3	399.4	396.5	393.6
30181.9	60°	20820.9	6728.5	685.1	405.2	408.1	326.5	341.1	376.1	373.2	358.6
32520.0	62.5°	21412.7	5775.2	440.2	344.0	311.9	294.4	311.9	341.1	329.4	297.4
34502.4	65°	21345.7	4454.6	338.2	294.4	256.5	256.5	271.1	297.4	262.4	209.9
34881.4	67.5°	20100.9	3014.4	279.9	247.8	215.7	212.8	224.5	247.8	224.5	177.8
32939.8	70°	17876.5	1970.7	224.5	192.4	172.0	157.4	180.7	212.8	189.5	142.8
28042.1	72.5°	14509.4	1201.1	169.1	139.9	125.4	102.0	142.8	174.9	151.6	105.0
19500.3	75°	9387.2	612.2	116.6	90.4	67.1	61.2	105.0	131.2	105.0	64.1
8652.6	77.5°	3591.6	256.5	64.1	40.8	35.0	29.2	58.3	78.7	43.7	14.6
1676.3	80°	690.9	107.9	32.1	20.4	17.5	11.7	8.7	5.8	0.0	0.0
297.4	82.5°	119.5	35.0	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
58.3	85°	40.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.4	87.5°	14.6	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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180°
5413.7
3285.5
1924.1
1565.5
1446.0
1335.2
1230.2
1134.0
1040.8
950.4
860.0
787.1
725.9
679.3
635.5
600.5
553.9
516.0
489.8
463.5
446.0
431.5
414.0
393.6
358.6
291.5
204.1
172.0
137.0
99.1
55.4
11.7
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