

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: P944056

Luminaire Tested: **GALN-SB8D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56117 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

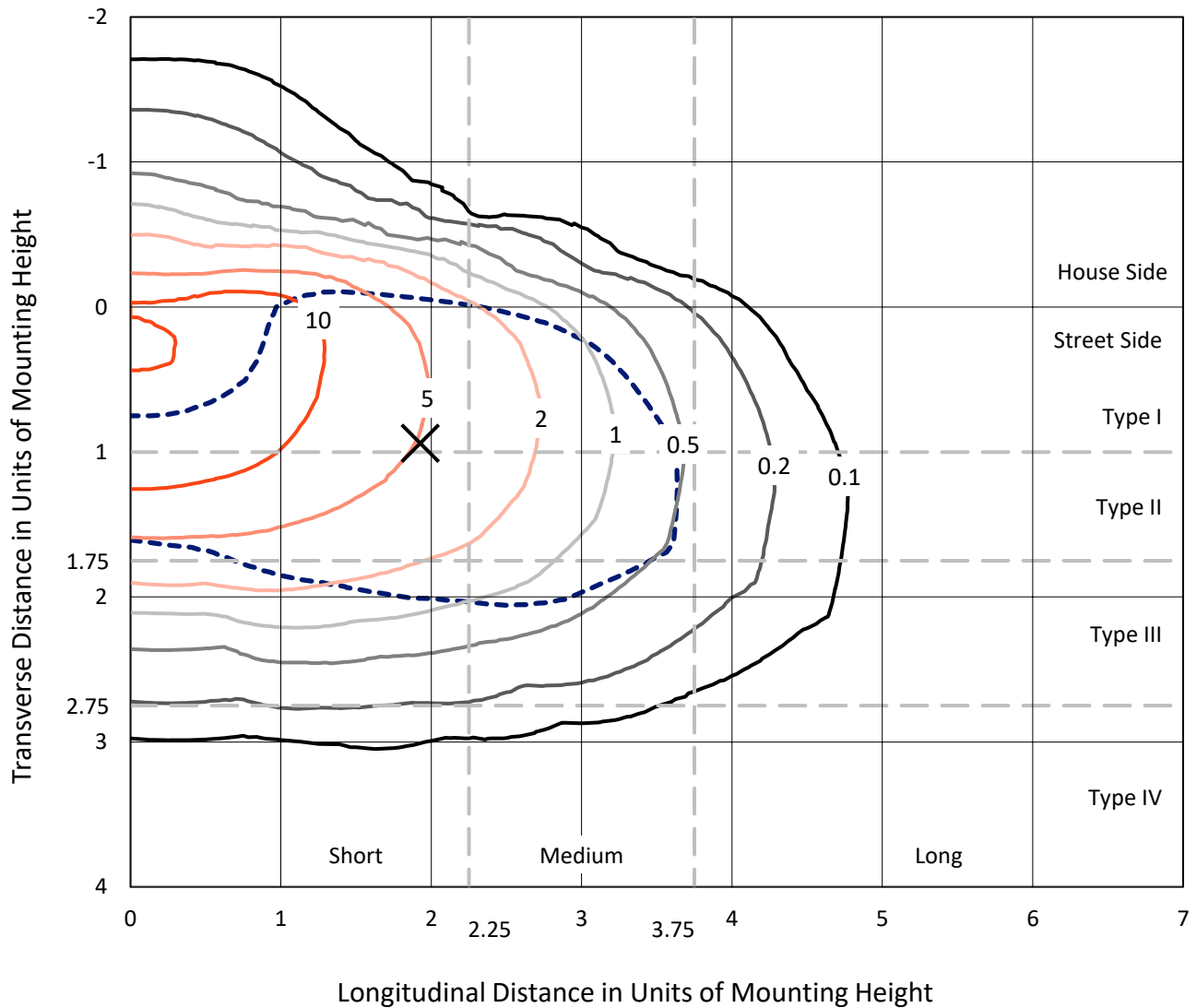
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

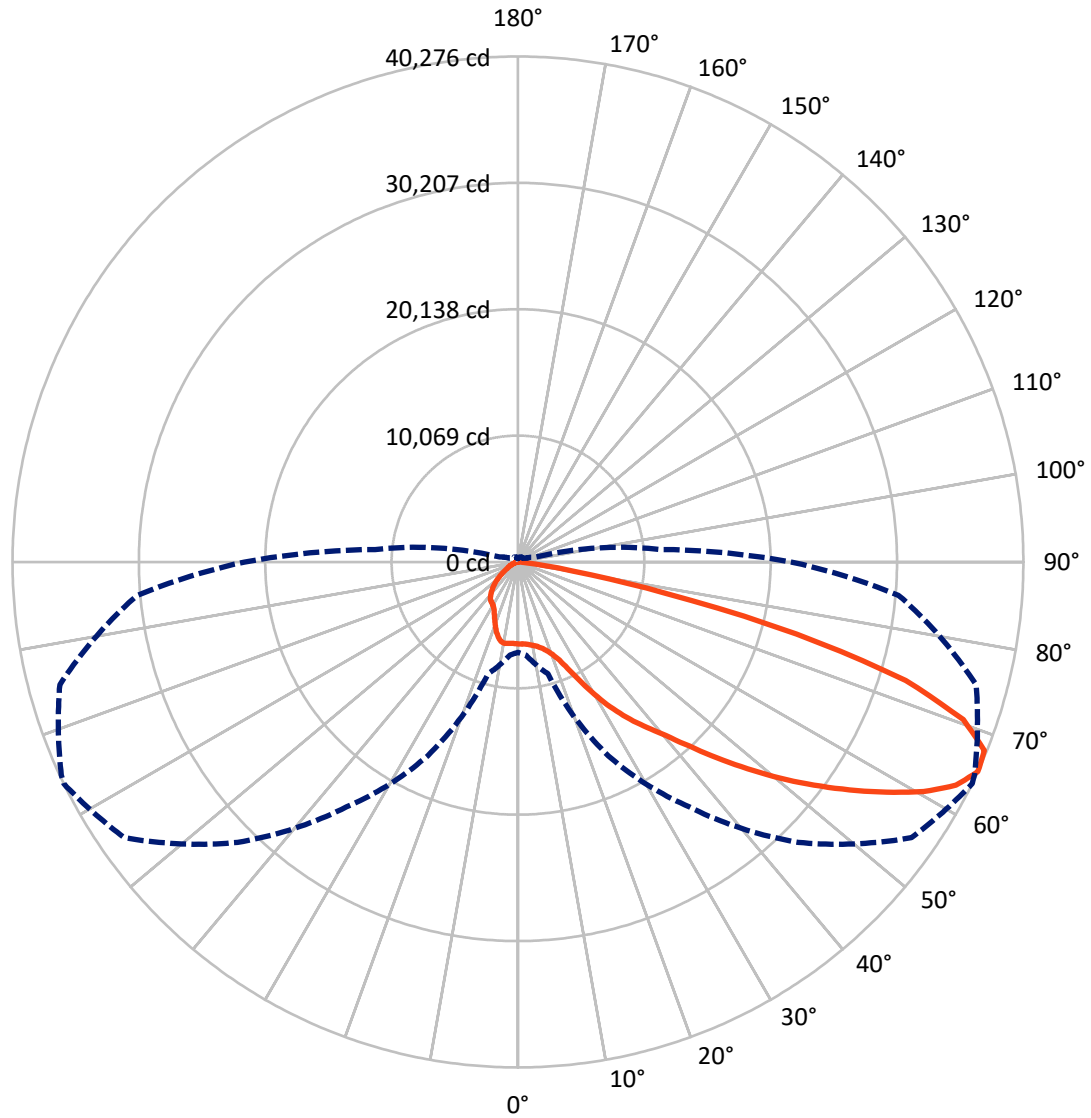
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7504.6	0.0	7504.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	48612.5	0.0	48612.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	56117.0	0.0	56117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.2	1.1
10°-20°	1633.3	2.9
20°-30°	3094.9	5.5
30°-40°	6262.7	11.2
40°-50°	10668.5	19.0
50°-60°	14508.4	25.9
60°-70°	13624.1	24.3
70°-80°	5458.4	9.7
80°-90°	264.4	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°	56117.0	100.0
0°-180°	56117.0	100.0

Coefficient of Utilization



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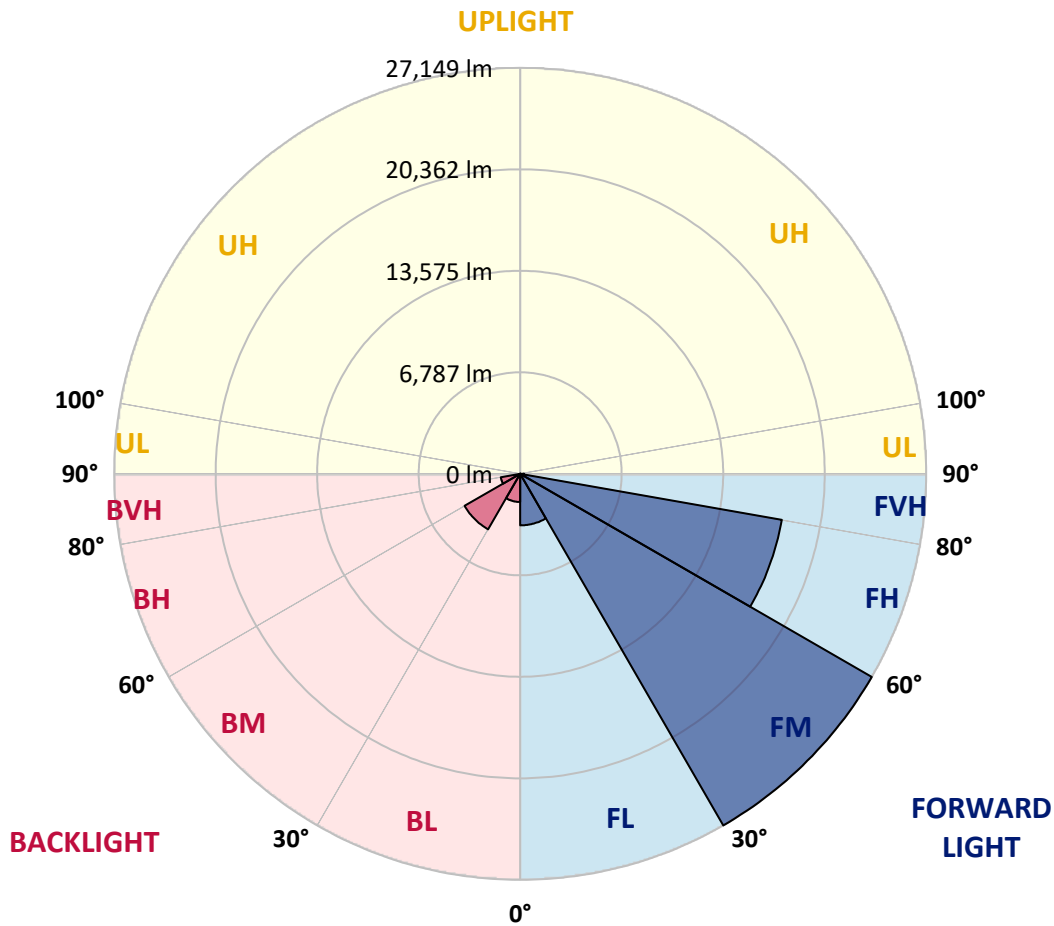
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3446.2	6.1			
FM (30°-60°)	27149.3	48.4			
FH (60°-80°)	17765.4	31.7			G5
FVH (80°-90°)	251.5	0.4			G3/500
BL (0°-30°)	1884.2	3.4	B3/2500		
BM (30°-60°)	4290.3	7.6	B3/5000		
BH (60°-80°)	1317.2	2.3	B3/2500		G3/2500
BVH (80°-90°)	12.9	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0
2.5°	6504.4	6549.6	6538.3	6527.0	6523.2	6530.8	6534.5	6530.8	6530.8	6530.8
5°	6380.3	6417.9	6417.9	6444.2	6481.8	6527.0	6560.8	6568.4	6575.9	6587.2
7.5°	6143.3	6173.4	6195.9	6282.5	6376.5	6496.9	6598.5	6651.1	6658.7	6700.0
10°	5981.5	6019.1	6056.7	6147.0	6282.5	6463.0	6636.1	6764.0	6782.8	6880.6
12.5°	5974.0	6011.6	6060.5	6158.3	6316.3	6508.2	6718.8	6903.2	6937.0	7080.0
15°	6053.0	6098.1	6143.3	6263.7	6432.9	6666.2	6891.9	7121.4	7155.2	7358.4
17.5°	6214.7	6274.9	6308.8	6429.2	6609.8	6869.3	7166.5	7429.9	7460.0	7697.0
20°	6534.5	6606.0	6617.3	6715.1	6891.9	7170.3	7523.9	7851.2	7888.8	8159.7
22.5°	7196.6	7298.2	7207.9	7256.8	7414.8	7693.2	8076.9	8490.7	8543.4	8851.9
25°	8362.8	8505.8	8272.5	8189.8	8257.5	8547.2	9028.7	9551.6	9611.8	9860.1
27.5°	10653.9	10469.5	10115.9	9769.8	9566.6	9732.2	10273.9	10921.0	10996.2	11237.0
30°	13170.6	13008.8	12531.1	11763.6	11282.1	11255.8	11756.1	12478.4	12564.9	12794.4
32.5°	15691.1	15536.9	15017.7	14073.5	13238.3	12824.5	13170.6	13971.9	14017.0	14163.8
35°	18170.2	18012.2	17493.1	16526.3	15499.2	14558.8	14491.0	15393.9	15409.0	15563.2
37.5°	20664.4	20532.7	19979.7	19031.7	18019.8	16721.9	16093.6	16740.7	16759.5	16910.0
40°	22443.8	22500.2	22120.3	21386.7	20517.7	19099.4	17891.9	18174.0	18061.1	18313.2
42.5°	23971.2	24084.0	23753.0	23384.3	22880.2	21631.2	20118.9	20070.0	19889.4	20024.9
45°	25291.6	25385.7	25088.5	25001.9	24990.7	24114.1	22552.9	22259.5	22007.4	21981.1
47.5°	25776.9	25957.5	26085.4	26375.1	26939.4	26570.7	25069.7	24614.5	24332.3	24125.4
50°	25961.2	26153.1	26589.5	27432.2	28767.7	28925.7	27575.1	27063.5	26717.4	26341.2
52.5°	25713.0	26055.3	26642.2	28060.4	29997.8	30814.2	29979.0	29531.3	29136.3	28523.1
55°	24249.6	24591.9	25792.0	28052.9	30611.0	32138.4	32251.2	32051.8	31607.9	30641.1
57.5°	21164.8	21672.6	23572.4	27097.4	30599.7	33278.2	34478.3	34621.3	34124.7	32740.3
60°	16891.2	17579.6	19897.0	24979.4	29655.5	33895.2	36430.8	37145.5	36618.9	34809.4
62.5°	11786.2	12583.7	14777.0	21661.3	27496.1	33451.3	37856.5	39177.0	38778.2	36660.2
65°	7189.1	7444.9	9213.0	17045.4	23824.5	31592.9	38296.7	40275.5	40143.8	37792.6
67.5°	4789.0	5003.4	5511.3	11688.4	18493.8	27879.8	37243.3	40083.6	40121.2	37608.3
70°	2885.4	3069.8	3400.8	6797.9	11985.6	22067.6	33981.7	37638.3	37856.5	35144.2
72.5°	1188.8	1312.9	1613.9	3081.0	6207.2	14005.8	27059.7	32315.2	32823.0	29550.1
75°	673.4	737.3	948.0	1546.2	2693.6	6527.0	16390.8	22940.4	23689.0	20367.2
77.5°	447.7	477.8	613.2	1000.7	1516.1	2227.1	7004.8	11951.7	13381.3	11124.1
80°	301.0	327.3	421.3	669.6	985.6	955.5	2230.8	4427.8	5447.3	3822.1
82.5°	203.1	206.9	301.0	440.1	624.5	462.7	658.3	1376.9	1730.5	1106.0
85°	116.6	112.9	222.0	255.8	278.4	191.9	199.4	413.8	541.7	466.5
87.5°	15.0	22.6	86.5	67.7	37.6	41.4	41.4	71.5	105.3	112.9
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°
6527.0	0°	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0	6527.0
6534.5	2.5°	6534.5	6530.8	6519.5	6508.2	6481.8	6466.8	6474.3	6466.8	6463.0	6466.8
6583.4	5°	6583.4	6572.1	6542.0	6504.4	6451.8	6387.8	6346.4	6286.2	6229.8	6195.9
6715.1	7.5°	6715.1	6703.8	6662.4	6557.1	6387.8	6120.7	5876.2	5661.7	5500.0	5405.9
6925.8	10°	6925.8	6906.9	6843.0	6609.8	6165.8	5582.7	5097.4	4694.9	4431.6	4307.4
7174.0	12.5°	7174.0	7151.5	7038.6	6560.8	5744.5	4834.1	4164.5	3716.8	3472.3	3363.2
7460.0	15°	7467.5	7437.4	7215.4	6327.6	5131.3	4006.5	3393.3	3058.5	2900.5	2802.7
7824.9	17.5°	7832.4	7779.7	7347.1	5977.7	4465.4	3374.5	2919.3	2667.2	2528.0	2434.0
8302.6	20°	8306.4	8219.9	7452.4	5560.2	3852.2	2975.7	2599.5	2388.8	2283.5	2200.7
8979.8	22.5°	8968.5	8844.4	7580.3	5108.7	3419.6	2701.1	2362.5	2208.3	2121.7	2027.7
9924.0	25°	9788.6	9641.9	7738.3	4691.2	3122.4	2464.1	2189.5	2061.6	1960.0	1850.9
11161.7	27.5°	10936.0	10672.7	7926.4	4348.8	2866.6	2260.9	2031.5	1888.5	1771.9	1681.6
12564.9	30°	12215.1	11782.4	8092.0	4141.9	2633.4	2072.8	1824.5	1681.6	1572.5	1508.5
13825.2	32.5°	13426.4	12839.5	8201.1	4051.6	2422.7	1858.4	1598.8	1444.6	1361.8	1343.0
15059.1	35°	14570.0	13795.1	8189.8	3965.1	2234.6	1644.0	1376.9	1218.9	1154.9	1166.2
16387.1	37.5°	15886.7	14814.6	8110.8	3829.7	2080.4	1448.4	1185.0	1045.8	989.4	993.2
18000.9	40°	17417.8	15992.1	8061.9	3573.9	1911.1	1267.8	1027.0	914.2	872.8	857.7
19701.4	42.5°	19050.5	17131.9	8069.4	3284.2	1700.4	1106.0	917.9	823.9	786.2	775.0
21593.6	45°	20690.7	18219.1	8080.7	2983.2	1478.4	981.9	838.9	759.9	737.3	722.3
23512.2	47.5°	22233.1	19144.6	7870.0	2659.7	1260.3	887.8	775.0	722.3	703.5	684.7
25438.3	50°	23670.2	19761.5	7362.1	2283.5	1087.2	812.6	726.1	688.4	669.6	650.8
27183.9	52.5°	24787.5	19859.4	6523.2	1896.0	966.8	756.2	696.0	662.1	639.5	620.7
28594.6	55°	25284.1	19246.2	5330.7	1534.9	872.8	707.2	665.9	632.0	605.7	586.9
29704.4	57.5°	25156.2	17955.8	4157.0	1233.9	782.5	658.3	628.2	605.7	575.6	545.5
30603.5	60°	24527.9	16229.1	3133.7	1027.0	699.7	605.7	586.9	568.1	526.7	481.5
30949.6	62.5°	23440.7	14058.4	2234.6	850.2	609.4	545.5	538.0	522.9	462.7	380.0
30438.0	65°	21778.0	11421.3	1504.8	707.2	522.9	477.8	481.5	455.2	376.2	282.1
28564.5	67.5°	19347.7	8351.5	963.1	579.3	436.4	398.8	402.5	387.5	319.8	240.8
25013.2	70°	16251.6	5530.1	628.2	440.1	349.9	308.5	331.1	334.8	270.9	195.6
19197.3	72.5°	11914.1	3265.4	440.1	327.3	255.8	214.4	270.9	278.4	218.2	146.7
11549.2	75°	6790.3	1549.9	331.1	237.0	158.0	150.5	210.7	210.7	150.5	97.8
4999.6	77.5°	2851.6	647.1	233.2	154.2	90.3	86.5	143.0	131.7	75.2	45.1
1218.9	80°	823.9	289.7	124.1	75.2	37.6	33.9	56.4	41.4	18.8	7.5
462.7	82.5°	323.5	127.9	48.9	30.1	15.0	15.0	7.5	0.0	0.0	0.0
263.3	85°	191.9	52.7	22.6	11.3	3.8	0.0	0.0	0.0	0.0	0.0
56.4	87.5°	48.9	11.3	7.5	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>
6527.0
6481.8
6203.5
5409.7
4296.2
3351.9
2806.4
2426.5
2185.7
2012.6
1839.6
1662.8
1497.3
1354.3
1166.2
1008.2
854.0
771.2
722.3
684.7
650.8
617.0
583.1
541.7
474.0
372.4
274.6
229.5
188.1
139.2
90.3
45.1
7.5
0.0
0.0
0.0
0.0

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