

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: P949988

Luminaire Tested: **GALN-SB4C-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949988
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-SB4C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 22098 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

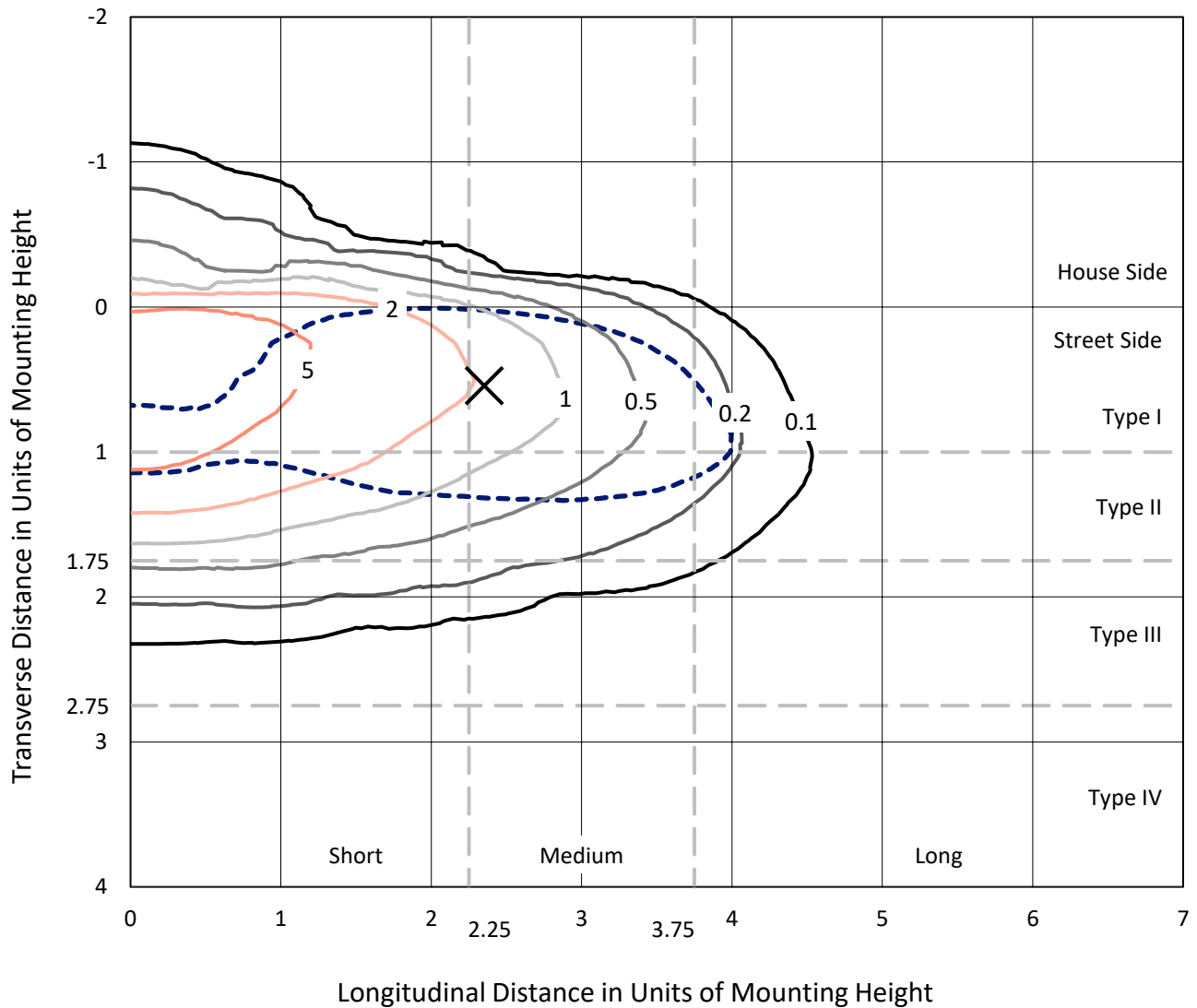
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

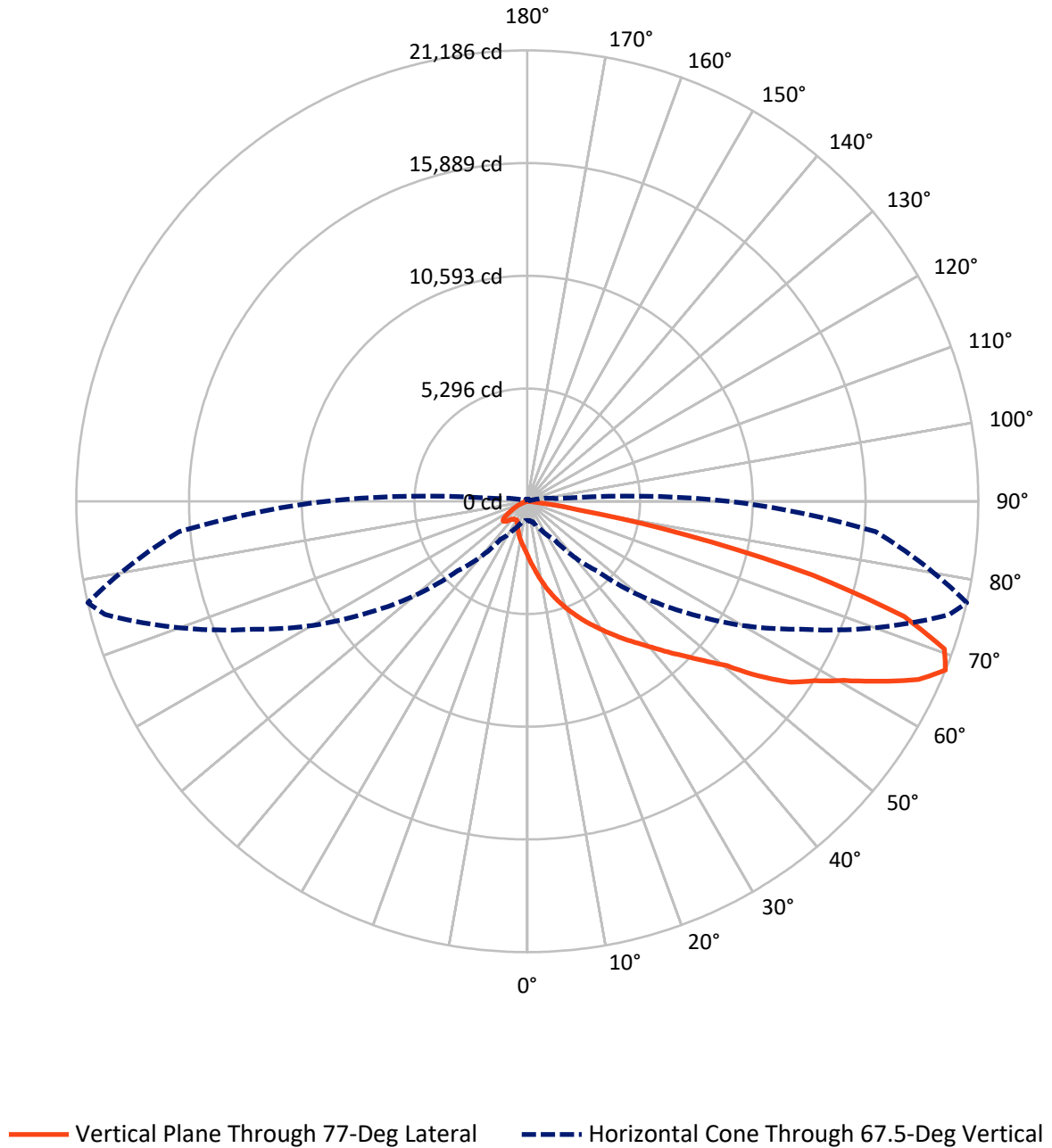
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	1625.8	0.0	1625.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	20472.2	0.0	20472.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	22098.0	0.0	22098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	1.2
10°-20°	910.8	4.1
20°-30°	1757.6	8.0
30°-40°	3051.3	13.8
40°-50°	4430.3	20.0
50°-60°	5087.6	23.0
60°-70°	4417.0	20.0
70°-80°	2080.5	9.4
80°-90°	102.9	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°	22098.0	100.0
0°-180°	22098.0	100.0

Coefficient of Utilization



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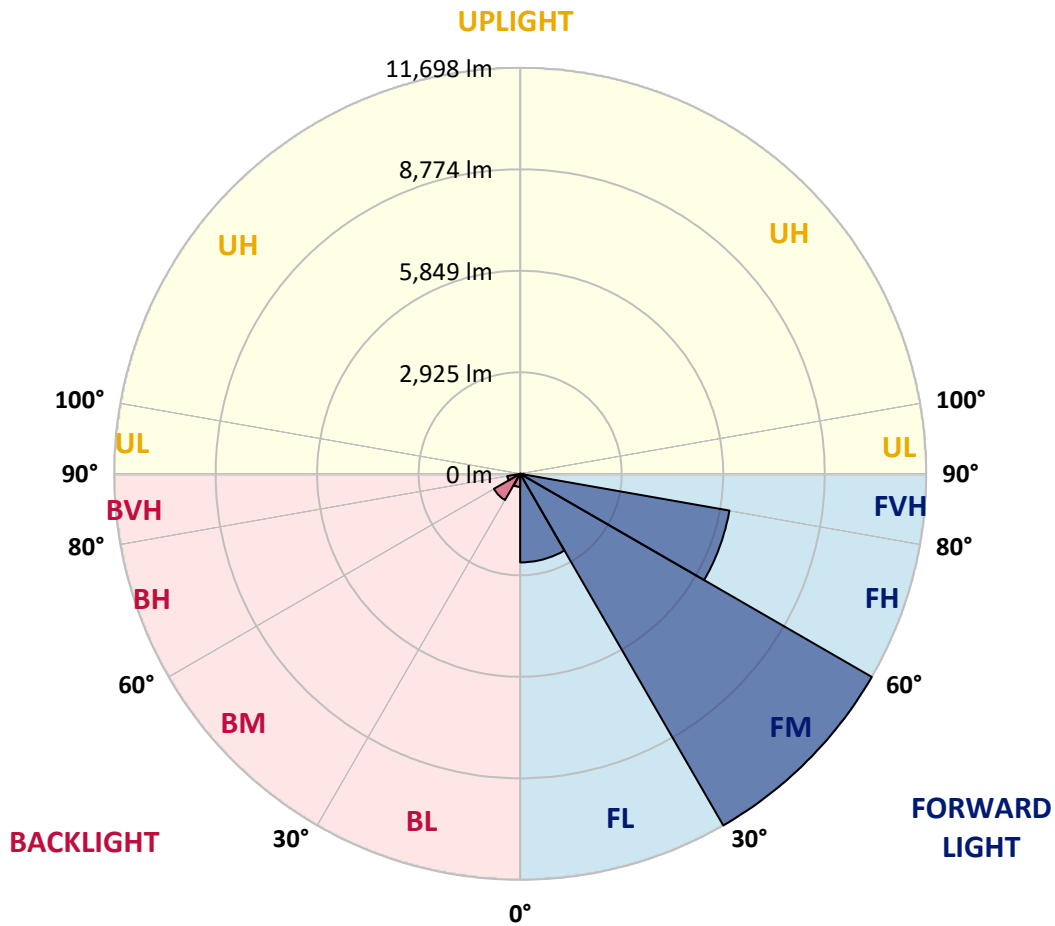
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2552.1	11.5			
FM (30°-60°)	11698.1	52.9			
FH (60°-80°)	6121.1	27.7			G3/7500
FVH (80°-90°)	101.0	0.5			G2/225
BL (0°-30°)	376.4	1.7	B1/500		
BM (30°-60°)	871.1	3.9	B1/1000		
BH (60°-80°)	376.4	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	3528.0	3549.9	3518.4	3458.0	3367.4	3308.4	3164.4	3028.5	2877.6	2829.5
5°	4300.6	4319.8	4284.1	4218.2	4097.5	3982.2	3792.8	3508.8	3213.8	3119.1
7.5°	4872.8	4883.8	4870.0	4809.7	4694.4	4564.0	4352.7	4016.5	3578.8	3474.5
10°	5284.4	5320.1	5316.0	5292.7	5215.8	5110.2	4885.1	4502.3	3987.7	3853.2
12.5°	5557.5	5597.3	5620.6	5672.8	5668.7	5601.4	5403.8	4999.0	4395.2	4237.4
15°	5637.1	5679.6	5768.8	5889.6	5996.6	6030.9	5892.3	5486.2	4844.0	4642.2
17.5°	5591.8	5657.7	5764.7	5955.5	6190.1	6345.2	6330.1	5956.8	5251.5	5021.0
20°	5692.0	5755.1	5838.8	5999.4	6272.4	6553.8	6666.3	6406.9	5656.3	5414.8
22.5°	6246.4	6235.4	6243.6	6269.7	6433.0	6711.6	6943.5	6815.8	6057.0	5810.0
25°	7124.6	7075.2	6991.5	6850.2	6809.0	6943.5	7185.0	7178.1	6479.7	6214.8
27.5°	8131.8	8123.6	7927.4	7587.0	7394.9	7342.8	7458.0	7530.8	6898.2	6615.5
30°	9096.5	9118.4	8853.6	8474.9	8122.2	7917.7	7813.5	7865.6	7323.6	7047.8
32.5°	9936.3	9959.6	9671.5	9228.2	8791.9	8544.9	8325.3	8196.3	7787.4	7486.9
35°	10645.7	10669.1	10338.4	9848.5	9383.3	9159.6	8911.2	8558.6	8253.9	7974.0
37.5°	11279.7	11272.8	10829.6	10335.6	9878.7	9701.6	9571.3	9004.5	8734.2	8463.9
40°	11654.3	11683.1	11304.4	10759.6	10316.4	10187.4	10179.2	9557.6	9288.6	9026.5
42.5°	11764.1	11814.9	11540.4	11093.1	10691.0	10551.0	10766.5	10155.8	9933.5	9678.3
45°	11566.5	11615.9	11491.0	11180.9	10946.2	10855.7	11271.5	10776.1	10622.4	10369.9
47.5°	10990.2	11051.9	11082.1	11016.2	11013.5	11105.4	11724.3	11429.3	11440.3	11182.3
50°	9874.5	9978.8	10256.0	10489.3	10850.2	11303.0	12164.8	12137.3	12362.4	12140.1
52.5°	7846.4	7994.6	8949.7	9587.7	10398.7	11266.0	12649.2	13273.5	13980.2	13655.0
55°	6305.4	6305.4	7082.1	8275.9	9517.8	11021.7	12860.5	14011.8	15082.1	15005.3
57.5°	5140.4	5202.1	5697.5	6752.7	8243.0	10439.9	12990.9	14475.6	15970.0	15913.7
60°	3172.6	3305.7	4241.6	5283.1	6792.5	9403.9	12908.5	14944.9	17047.2	17092.5
62.5°	1786.6	1836.0	2253.2	3801.1	5281.7	8011.1	12278.7	15207.0	18424.9	18617.0
65°	1233.6	1258.3	1418.9	2365.7	3661.1	6378.1	11047.8	15043.7	19805.3	20193.7
67.5°	896.1	908.4	1008.6	1445.0	2172.2	4624.4	9118.4	14220.4	20536.7	21185.8
70°	688.9	697.1	769.8	949.6	1283.0	2854.2	6622.4	12583.3	20007.1	20782.4
72.5°	559.9	568.1	624.4	702.6	850.8	1687.8	4013.8	10219.0	17668.8	18505.8
75°	472.0	483.0	533.8	584.6	666.9	1084.1	1882.7	7116.4	13287.3	13836.2
77.5°	262.1	241.5	433.6	484.4	562.6	686.1	881.0	4188.0	7441.6	7593.9
80°	163.3	168.8	344.4	389.7	432.3	345.8	403.4	1612.4	2579.8	2450.8
82.5°	9.6	22.0	264.8	281.3	296.4	148.2	152.3	547.5	621.6	570.8
85°	0.0	0.0	120.8	97.4	102.9	42.5	43.9	127.6	83.7	90.6
87.5°	0.0	0.0	0.0	2.7	0.0	4.1	8.2	11.0	4.1	5.5
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°
2548.2	0°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2678.6	2.5°	2582.5	2486.5	2291.6	2100.9	1945.8	1801.7	1698.8	1601.4	1552.0	1549.2
2851.5	5°	2660.7	2459.0	2069.3	1724.9	1447.7	1225.4	1081.3	978.4	926.3	908.4
3064.2	7.5°	2770.5	2467.3	1874.5	1395.6	1069.0	878.2	795.9	763.0	752.0	739.6
3304.3	10°	2909.1	2486.5	1700.2	1123.9	842.5	746.5	713.6	699.8	691.6	683.4
3574.6	12.5°	3064.2	2504.3	1527.3	933.1	741.0	691.6	668.3	651.8	640.8	631.2
3851.8	15°	3215.1	2515.3	1347.5	800.0	688.9	649.1	624.4	606.5	591.4	580.5
4123.5	17.5°	3364.7	2530.4	1178.7	720.4	646.3	606.5	581.8	559.9	547.5	535.2
4409.0	20°	3530.7	2527.6	1019.6	664.2	603.8	564.0	537.9	517.3	505.0	491.3
4710.9	22.5°	3684.4	2513.9	879.6	616.1	559.9	521.4	492.6	472.0	459.7	448.7
5019.6	25°	3861.4	2502.9	763.0	572.2	518.7	480.3	448.7	429.5	415.8	406.2
5329.7	27.5°	4031.6	2486.5	677.9	532.4	478.9	441.9	411.7	389.7	377.4	370.5
5649.5	30°	4199.0	2482.4	646.3	494.0	443.2	406.2	376.0	355.4	345.8	343.1
6000.7	32.5°	4400.7	2493.3	660.0	480.3	410.3	373.2	344.4	329.3	319.7	319.7
6391.8	35°	4616.2	2490.6	680.6	492.6	388.3	340.3	318.4	308.8	299.1	299.1
6825.5	37.5°	4886.5	2494.7	697.1	513.2	380.1	312.9	300.5	288.2	282.7	282.7
7300.2	40°	5289.9	2630.6	688.9	531.1	377.4	293.7	269.0	264.8	260.7	260.7
7836.8	42.5°	5783.9	2925.6	699.8	532.4	376.0	279.9	247.0	255.2	245.6	244.3
8441.9	45°	6324.6	3248.1	769.8	503.6	374.6	273.1	236.0	245.6	230.5	230.5
9143.1	47.5°	6861.1	3567.8	841.2	462.4	370.5	271.7	226.4	220.9	216.8	218.2
10057.0	50°	7600.8	3828.5	868.6	406.2	360.9	269.0	208.6	210.0	207.2	210.0
11345.6	52.5°	8406.3	3883.4	835.7	343.1	333.5	260.7	196.2	201.7	200.3	203.1
12252.6	55°	8908.5	3824.4	690.2	285.4	290.9	227.8	183.9	194.9	194.9	194.9
13139.1	57.5°	9427.2	3573.3	489.9	231.9	241.5	186.6	172.9	188.0	186.6	185.3
14206.7	60°	9800.4	3167.1	322.5	190.7	192.1	153.7	160.6	177.0	175.6	168.8
15307.2	62.5°	10079.0	2718.4	207.2	161.9	146.8	138.6	146.8	160.6	155.1	140.0
16240.3	65°	10047.4	2096.8	159.2	138.6	120.8	120.8	127.6	140.0	123.5	98.8
16418.7	67.5°	9461.5	1418.9	131.7	116.6	101.5	100.2	105.7	116.6	105.7	83.7
15504.8	70°	8414.5	927.6	105.7	90.6	81.0	74.1	85.1	100.2	89.2	67.2
13199.4	72.5°	6829.6	565.4	79.6	65.9	59.0	48.0	67.2	82.3	71.4	49.4
9178.8	75°	4418.6	288.2	54.9	42.5	31.6	28.8	49.4	61.8	49.4	30.2
4072.8	77.5°	1690.6	120.8	30.2	19.2	16.5	13.7	27.4	37.1	20.6	6.9
789.0	80°	325.2	50.8	15.1	9.6	8.2	5.5	4.1	2.7	0.0	0.0
140.0	82.5°	56.3	16.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
27.4	85°	19.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.6	87.5°	6.9	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°
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