

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: P942048

Luminaire Tested: **GALN-SB5D-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37228 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

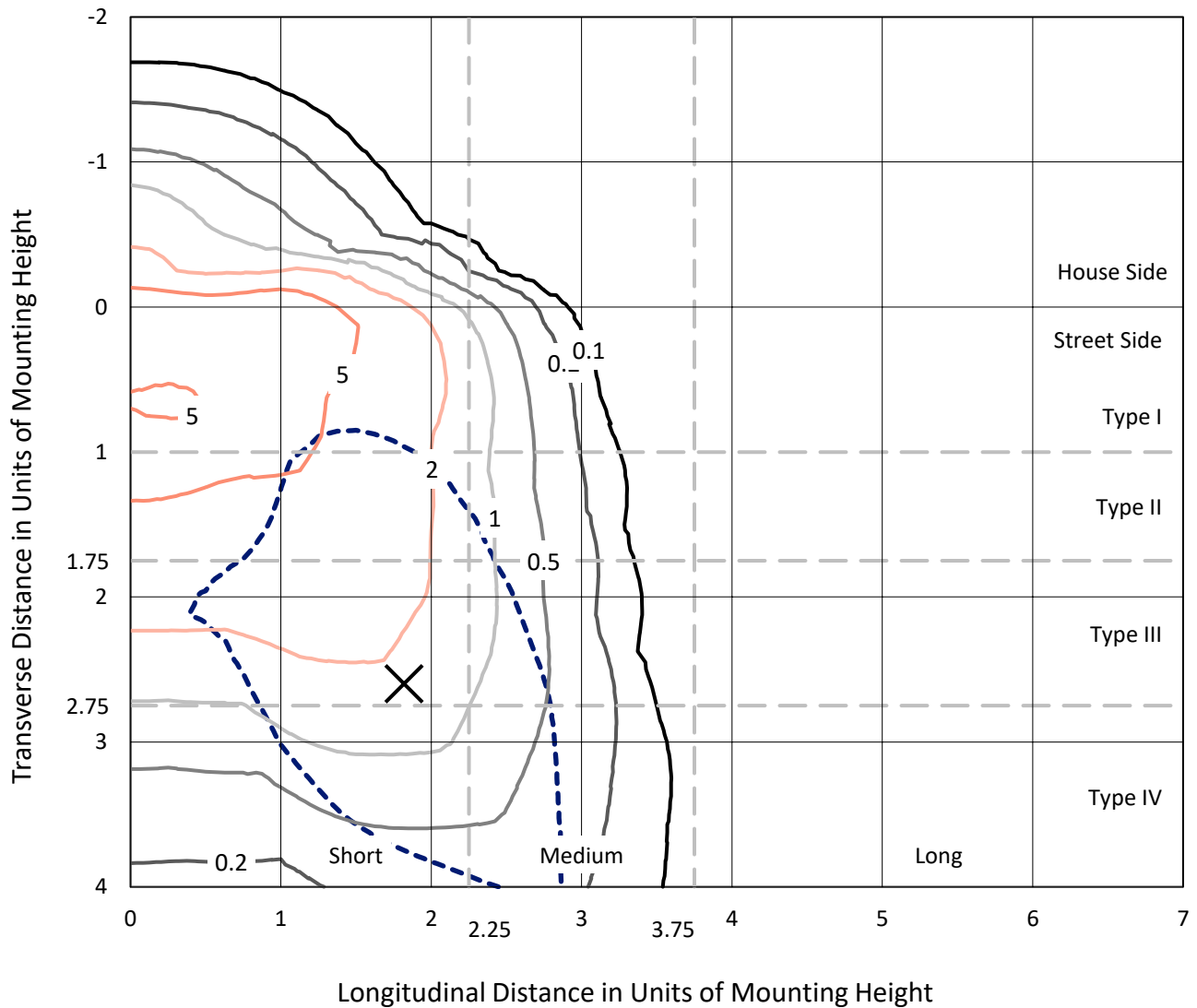
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

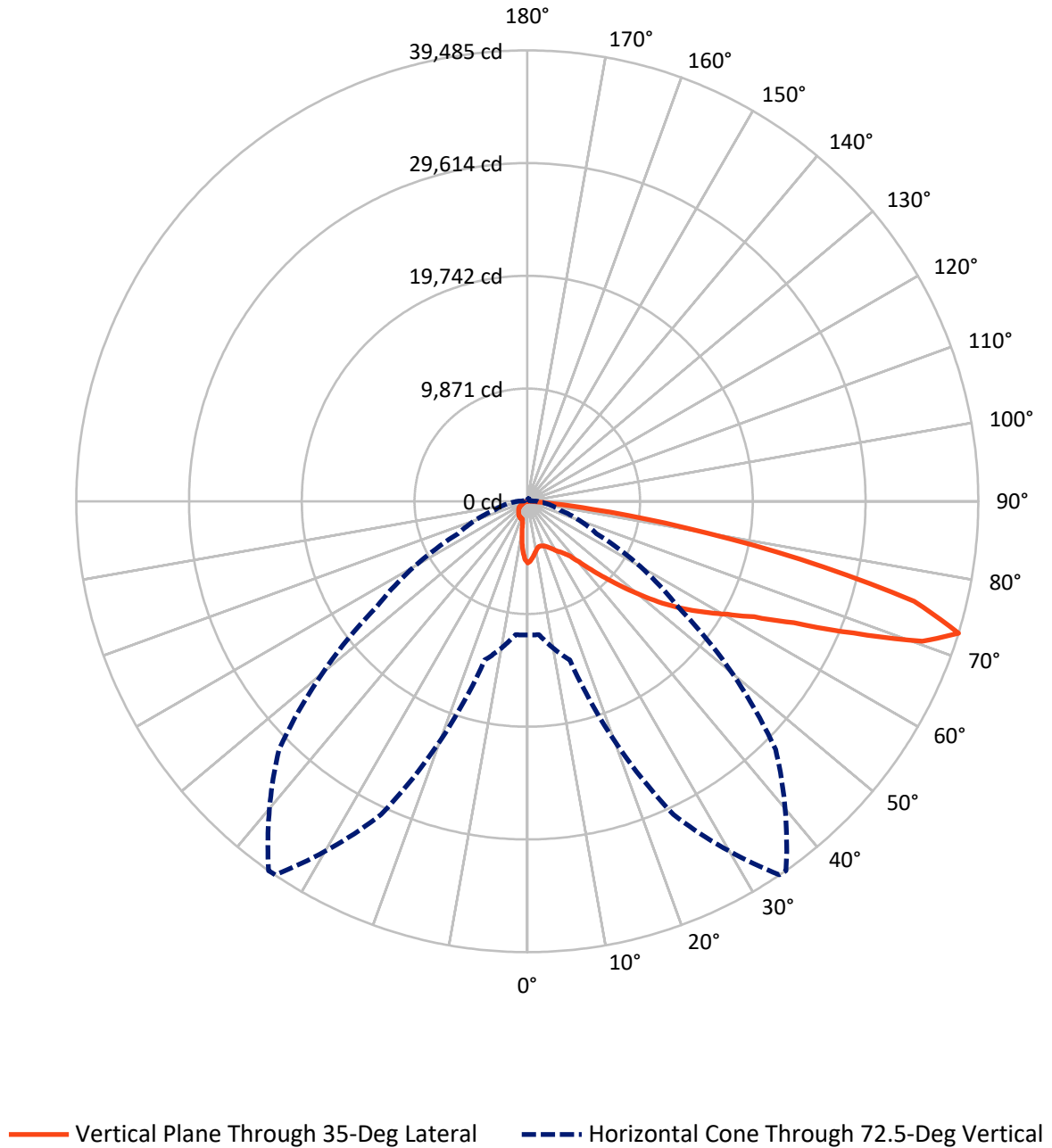
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4189.8	0.0	4189.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	33038.2	0.0	33038.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	37228.0	0.0	37228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.4	1.2
10°-20°	1037.2	2.8
20°-30°	1684.9	4.5
30°-40°	2811.3	7.6
40°-50°	5319.1	14.3
50°-60°	8451.9	22.7
60°-70°	10455.6	28.1
70°-80°	6499.3	17.5
80°-90°	525.3	1.4
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°	37228.0	100.0
0°-180°	37228.0	100.0

Coefficient of Utilization



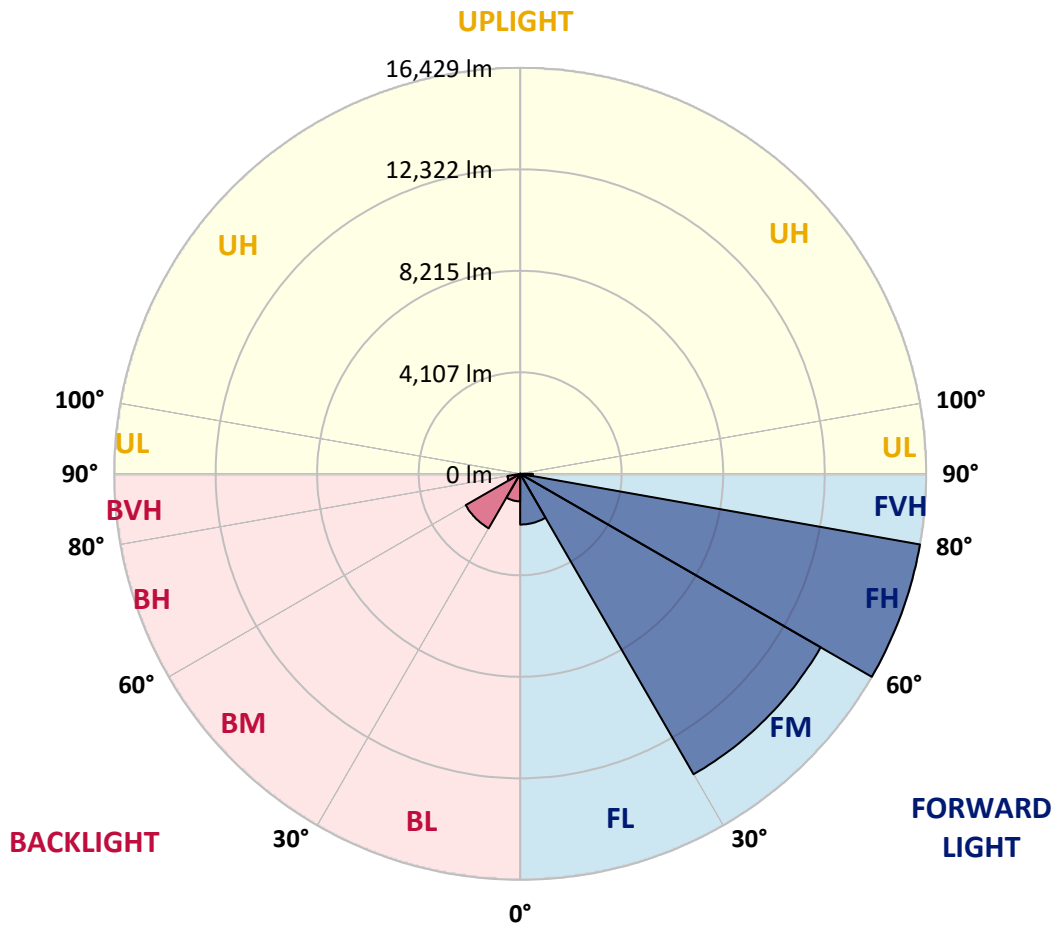
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.2	5.5			
FM (30°-60°)	14038.7	37.7			
FH (60°-80°)	16429.2	44.1			G5
FVH (80°-90°)	518.1	1.4			G4/750
BL (0°-30°)	1113.3	3.0	B3/2500		
BM (30°-60°)	2543.6	6.8	B3/5000		
BH (60°-80°)	525.8	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6
2.5°	5155.5	5199.2	5207.4	5221.0	5221.0	5237.4	5264.7	5302.8	5365.6	5398.3
5°	4751.8	4784.6	4825.5	4858.2	4920.9	4929.1	5035.5	5139.2	5283.7	5392.9
7.5°	4345.4	4383.6	4438.1	4517.2	4599.1	4623.6	4784.6	4959.1	5188.3	5392.9
10°	4059.0	4061.7	4110.8	4189.9	4320.8	4350.8	4547.2	4795.5	5081.9	5360.1
12.5°	3898.0	3917.1	3938.9	3999.0	4124.4	4143.5	4353.6	4645.4	4975.5	5341.0
15°	3898.0	3911.7	3925.3	3955.3	4056.2	4072.6	4258.1	4550.0	4920.9	5349.2
17.5°	3938.9	3960.8	3949.9	3985.3	4091.7	4102.6	4266.3	4522.7	4918.2	5401.0
20°	4037.1	4053.5	4031.7	4053.5	4159.9	4181.7	4350.8	4574.5	4964.6	5491.1
22.5°	4192.6	4200.8	4149.0	4165.3	4274.5	4301.7	4498.1	4721.8	5076.4	5635.6
25°	4389.0	4405.4	4326.3	4345.4	4449.0	4481.8	4708.2	4942.8	5253.7	5834.8
27.5°	4615.4	4623.6	4555.4	4552.7	4686.4	4732.7	4961.9	5215.6	5491.1	6085.7
30°	4874.6	4899.1	4833.7	4822.7	4991.9	5030.1	5256.5	5551.1	5840.2	6462.2
32.5°	5079.2	5098.3	5060.1	5087.3	5259.2	5289.2	5613.8	6025.7	6388.5	6996.8
35°	5373.8	5384.7	5297.4	5346.5	5542.9	5619.3	6102.1	6691.3	7078.6	7667.8
37.5°	6440.3	6440.3	6069.4	5826.6	6014.8	6083.0	6770.4	7528.7	7929.7	8568.0
40°	7916.1	7891.5	7348.7	6852.2	6827.7	6961.3	7722.4	8584.4	9029.0	9648.2
42.5°	9490.0	9451.8	8712.6	8221.6	8139.8	8186.1	8821.7	9885.5	10338.4	10965.7
45°	10886.6	10875.7	10199.2	9539.1	9391.8	9539.1	10193.8	11407.7	11732.3	12392.4
47.5°	12056.9	12056.9	11563.1	11132.1	11055.8	11143.1	12051.4	13096.2	13066.2	13911.8
50°	13404.4	13393.5	12924.3	12738.8	12817.9	12940.7	14190.0	14874.7	14446.4	15403.9
52.5°	14348.2	14413.7	14252.7	14222.7	14626.5	14839.2	16361.3	16615.0	15682.1	16819.6
55°	15095.6	15172.0	15357.5	15567.5	16345.0	16623.2	18464.5	18265.3	16715.9	18047.1
57.5°	16154.0	16044.9	16331.3	16746.0	18003.5	18339.0	20502.1	19822.9	17547.9	19042.8
60°	17438.8	17455.2	17504.3	18028.0	19659.2	20090.2	22509.8	21295.9	18082.6	19653.8
62.5°	18982.7	19007.3	19108.2	19912.9	21882.4	22288.8	24648.4	22501.6	18328.1	19481.9
65°	18876.4	18980.0	20106.6	22859.0	25262.1	25663.1	27144.3	23347.2	17957.1	17910.7
67.5°	17196.0	17365.2	19250.1	26377.8	30357.7	30805.0	30161.3	23513.6	16355.9	13928.1
70°	14992.0	15052.0	17318.8	29542.1	36257.9	36710.7	32861.8	21683.3	12411.5	7768.8
72.5°	11707.7	11721.4	14381.0	30275.8	39460.3	39484.9	30742.3	16096.7	6674.9	2984.2
75°	8363.4	8281.6	9631.9	24552.9	34716.7	34994.9	23047.2	7550.5	2550.5	1410.3
77.5°	4484.5	4574.5	5450.1	14561.0	23982.8	24457.4	12575.2	2176.8	1298.4	960.2
80°	1385.7	1462.1	2234.1	6666.7	13584.4	13870.9	4661.8	968.4	905.6	684.7
82.5°	436.4	452.8	1042.0	2801.4	5638.4	5769.3	1350.3	548.3	619.2	452.8
85°	125.5	128.2	463.7	1044.7	1393.9	1421.2	379.2	212.8	354.6	281.0
87.5°	13.6	43.6	174.6	174.6	122.8	120.0	40.9	46.4	100.9	35.5
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°
5395.6	0°	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6	5395.6
5420.1	2.5°	5406.5	5409.2	5373.8	5313.8	5248.3	5193.7	5125.5	5071.0	5032.8	5021.9
5469.2	5°	5444.7	5425.6	5324.7	5141.9	4923.7	4735.5	4525.4	4359.0	4249.9	4203.5
5521.1	7.5°	5502.0	5447.4	5226.5	4866.4	4449.0	4078.1	3701.6	3409.7	3224.3	3131.5
5570.2	10°	5551.1	5442.0	5062.8	4468.1	3829.8	3267.9	2760.5	2408.6	2212.2	2119.5
5627.4	12.5°	5597.4	5439.2	4850.0	3996.2	3131.5	2444.1	1972.2	1797.6	1743.1	1724.0
5720.2	15°	5684.7	5447.4	4582.7	3456.1	2435.9	1846.7	1674.9	1672.1	1683.1	1677.6
5862.0	17.5°	5804.8	5455.6	4279.9	2883.3	1879.5	1628.5	1620.3	1644.9	1661.2	1653.0
6039.3	20°	5960.2	5488.3	3958.0	2315.9	1614.9	1573.9	1593.0	1614.9	1628.5	1614.9
6276.7	22.5°	6178.5	5545.6	3606.1	1860.4	1530.3	1541.2	1557.6	1582.1	1595.8	1576.7
6579.4	25°	6445.8	5635.6	3259.7	1617.6	1489.4	1503.0	1527.6	1554.8	1571.2	1552.1
6961.3	27.5°	6792.2	5780.2	2940.6	1563.0	1448.5	1456.6	1492.1	1533.0	1554.8	1530.3
7504.2	30°	7294.1	6017.5	2665.1	1587.6	1423.9	1404.8	1453.9	1511.2	1535.8	1513.9
8243.4	32.5°	7959.7	6353.0	2495.9	1625.8	1413.0	1344.8	1391.2	1464.8	1505.7	1492.1
9209.0	35°	8832.6	6863.1	2430.5	1669.4	1404.8	1282.1	1314.8	1393.9	1464.8	1478.5
10425.6	37.5°	9891.0	7572.4	2449.6	1688.5	1380.3	1230.2	1246.6	1314.8	1407.5	1451.2
11795.0	40°	11094.0	8398.9	2558.7	1669.4	1353.0	1186.6	1189.3	1241.1	1323.0	1388.4
13268.0	42.5°	12335.1	9364.5	2760.5	1598.5	1328.4	1148.4	1140.2	1175.7	1230.2	1276.6
14738.3	45°	13516.2	10357.5	2959.7	1500.3	1298.4	1110.2	1091.1	1104.8	1115.7	1134.8
16170.4	47.5°	14547.3	11055.8	2902.4	1410.3	1257.5	1066.6	1033.8	1028.4	995.6	992.9
17449.7	50°	15259.3	11208.5	2577.8	1320.3	1197.5	1017.5	965.6	932.9	875.6	848.3
18407.2	52.5°	15485.7	10605.7	2105.9	1230.2	1099.3	952.0	878.4	826.5	755.6	731.0
18958.2	55°	15185.7	9424.5	1683.1	1121.1	962.9	864.7	782.9	714.7	657.4	627.4
19018.2	57.5°	14451.9	7921.5	1331.2	992.9	818.3	766.5	684.7	616.5	567.4	537.4
18352.6	60°	13235.3	6290.3	1052.9	840.2	698.3	660.1	575.6	531.9	488.3	452.8
16634.1	62.5°	11388.6	4490.0	826.5	665.6	583.7	540.1	491.0	458.3	406.4	357.3
13543.5	65°	8887.2	2746.9	638.3	488.3	469.2	447.4	417.4	387.3	324.6	275.5
8835.3	67.5°	5605.6	1301.2	455.5	368.3	371.0	360.1	346.4	321.9	275.5	231.9
3958.0	70°	2468.7	630.1	300.1	281.0	275.5	275.5	286.4	278.2	234.6	193.7
1374.8	72.5°	840.2	338.2	223.7	212.8	199.1	196.4	240.0	231.9	188.2	150.0
684.7	75°	439.2	226.4	163.7	152.8	120.0	144.6	190.9	180.0	133.7	98.2
452.8	77.5°	286.4	160.9	111.8	98.2	68.2	95.5	141.8	125.5	79.1	49.1
297.3	80°	180.0	106.4	65.5	46.4	32.7	51.8	76.4	54.6	30.0	10.9
174.6	82.5°	95.5	54.6	24.6	16.4	13.6	16.4	19.1	13.6	5.5	0.0
90.0	85°	38.2	19.1	8.2	5.5	2.7	0.0	5.5	2.7	0.0	0.0
16.4	87.5°	13.6	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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<u>180°</u>
5395.6
5041.0
4219.9
3145.2
2122.2
1718.5
1674.9
1650.3
1612.1
1573.9
1549.4
1530.3
1511.2
1492.1
1478.5
1462.1
1410.3
1295.7
1145.7
990.2
851.1
728.3
627.4
531.9
444.6
349.2
267.3
226.4
185.5
<i>141.8</i>
90.0
43.6
8.2
0.0
0.0
0.0
0.0

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