

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: P954797

Luminaire Tested: **GALN-SB7D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954797
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-SB7D-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 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: 44401 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

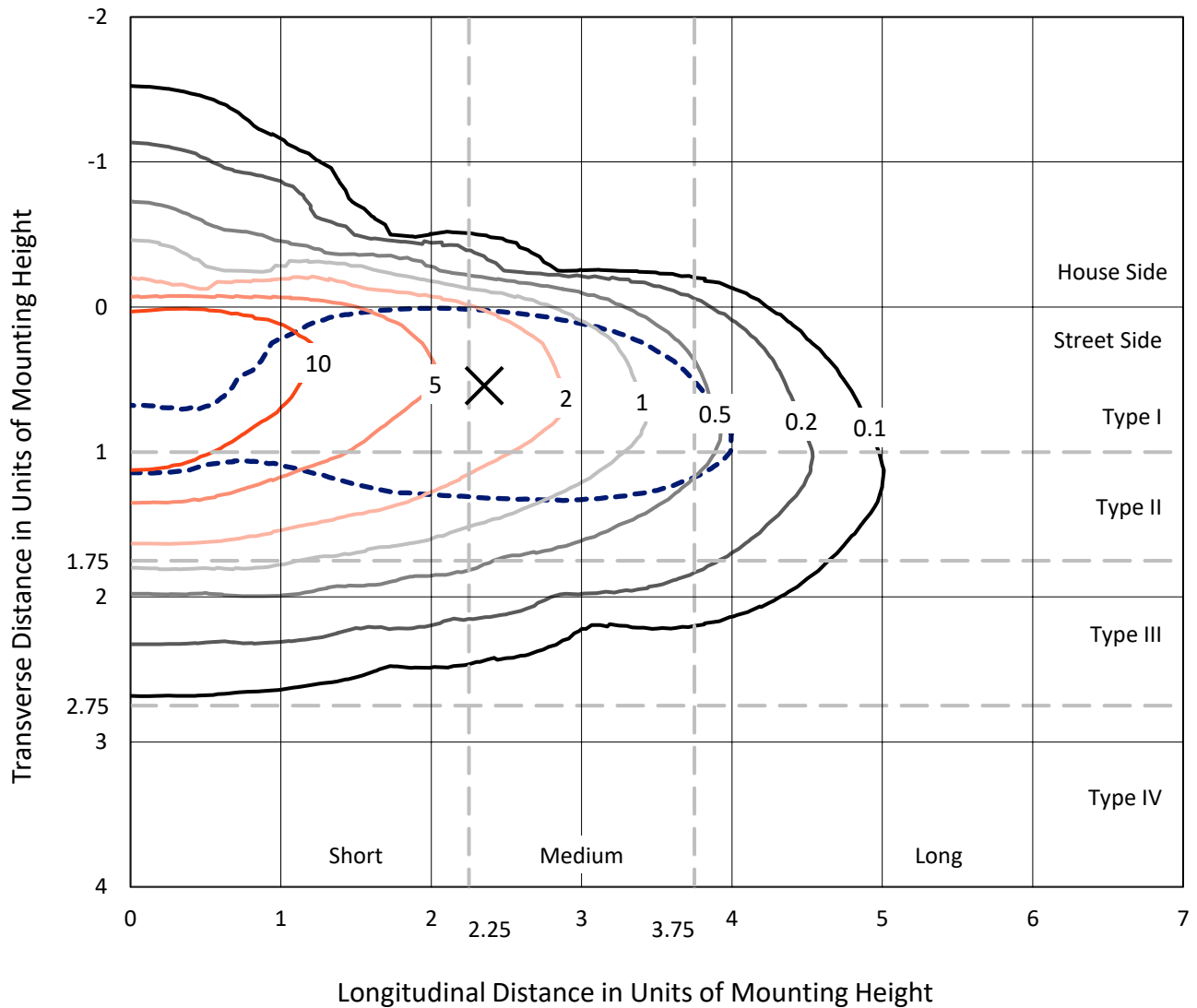
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954797
 CATALOG NUMBER: GALN-SB7D-940-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

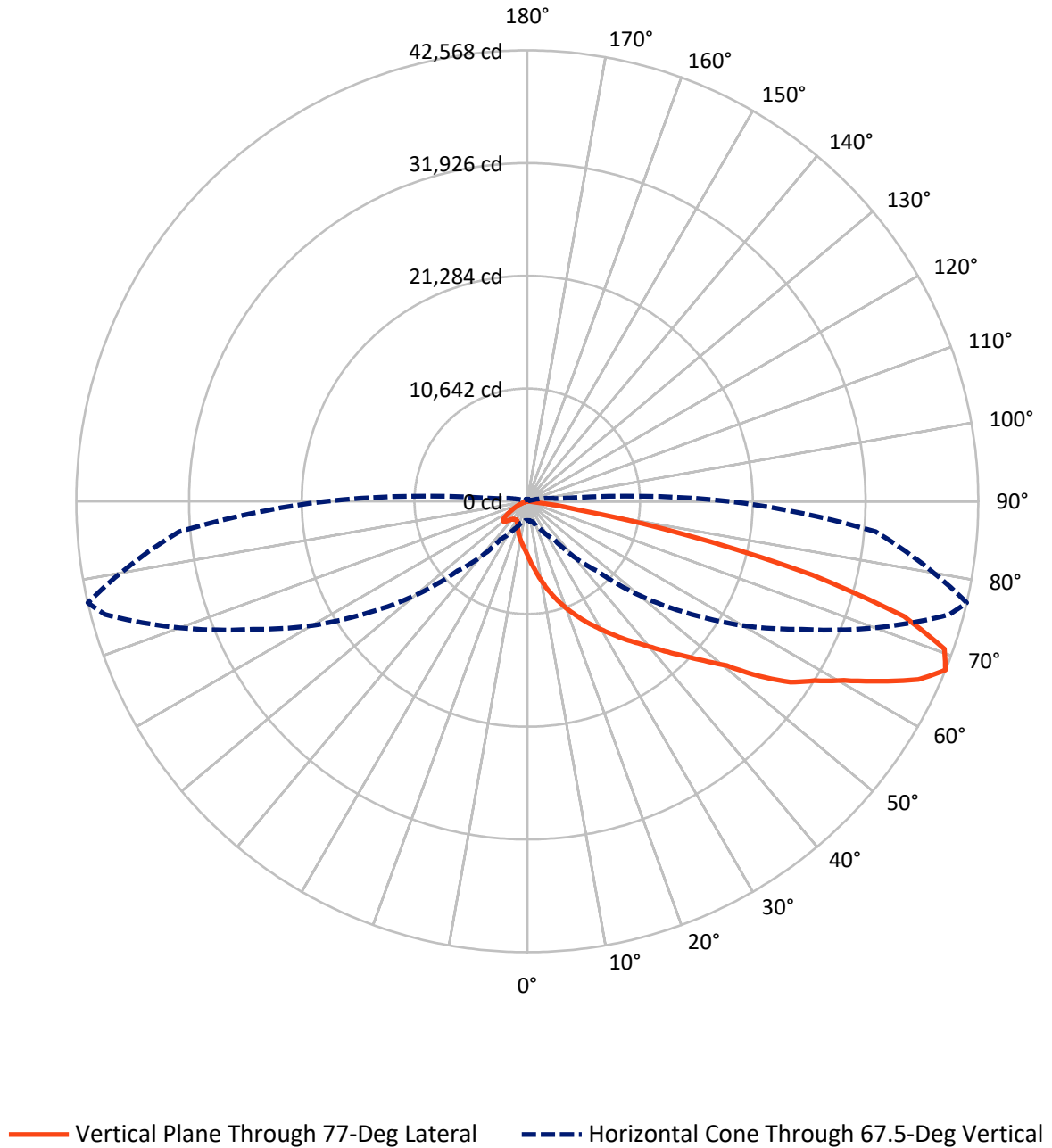
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P954797
CATALOG NUMBER: GALN-SB7D-940-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.6	0.0	3266.6
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	41134.4	0.0	41134.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	44401.0	0.0	44401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.6	1.2
10°-20°	1830.0	4.1
20°-30°	3531.5	8.0
30°-40°	6130.9	13.8
40°-50°	8901.7	20.0
50°-60°	10222.4	23.0
60°-70°	8875.0	20.0
70°-80°	4180.2	9.4
80°-90°	206.7	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°	44401.0	100.0
0°-180°	44401.0	100.0

Coefficient of Utilization



REPORT NUMBER: P954797

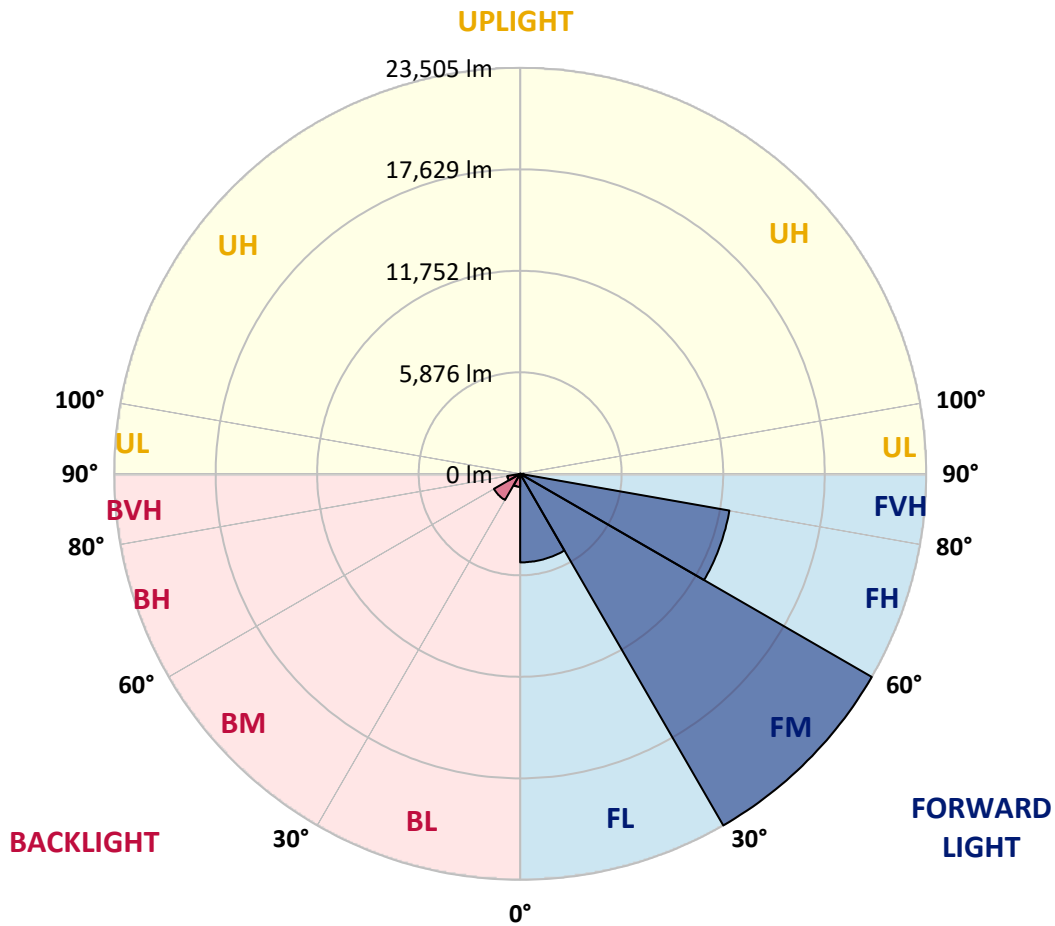
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5127.8	11.5			
FM (30°-60°)	23504.7	52.9			
FH (60°-80°)	12299.0	27.7			G5
FVH (80°-90°)	202.9	0.5			G2/225
BL (0°-30°)	756.3	1.7	B2/1000		
BM (30°-60°)	1750.3	3.9	B2/2500		
BH (60°-80°)	756.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.8	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



REPORT NUMBER: P954797

CATALOG NUMBER: GALN-SB7D-940-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1
2.5°	7088.7	7132.8	7069.4	6948.1	6766.1	6647.6	6358.1	6085.1	5781.8	5685.3
5°	8641.0	8679.6	8607.9	8475.6	8232.9	8001.3	7620.9	7050.1	6457.3	6267.1
7.5°	9790.8	9812.8	9785.2	9663.9	9432.3	9170.4	8745.8	8070.3	7190.7	6981.2
10°	10617.9	10689.6	10681.3	10634.5	10480.1	10267.7	9815.6	9046.3	8012.4	7742.2
12.5°	11166.6	11246.5	11293.4	11398.2	11389.9	11254.8	10857.8	10044.4	8831.3	8514.2
15°	11326.5	11412.0	11591.2	11833.8	12048.9	12117.8	11839.3	11023.2	9732.9	9327.5
17.5°	11235.5	11367.9	11582.9	11966.2	12437.7	12749.2	12718.9	11968.9	10551.7	10088.5
20°	11436.8	11563.6	11731.8	12054.4	12603.1	13168.3	13394.4	12873.3	11365.1	10879.8
22.5°	12550.7	12528.6	12545.2	12597.6	12925.7	13485.4	13951.3	13694.9	12170.2	11673.9
25°	14315.3	14216.0	14047.8	13763.9	13681.1	13951.3	14436.6	14422.8	13019.4	12487.3
27.5°	16339.1	16322.5	15928.2	15244.5	14858.5	14753.7	14985.3	15131.4	13860.4	13292.4
30°	18277.4	18321.5	17789.3	17028.4	16319.8	15908.9	15699.4	15804.2	14715.1	14160.9
32.5°	19964.8	20011.6	19432.6	18542.1	17665.3	17169.0	16727.8	16468.7	15647.0	15043.2
35°	21390.2	21437.1	20772.6	19788.3	18853.6	18404.2	17905.1	17196.5	16584.5	16022.0
37.5°	22664.0	22650.3	21759.7	20767.1	19849.0	19493.3	19231.3	18092.6	17549.5	17006.3
40°	23416.8	23474.7	22713.7	21619.1	20728.5	20469.3	20452.8	19203.8	18663.4	18136.7
42.5°	23637.3	23739.3	23187.9	22289.1	21481.2	21200.0	21632.9	20405.9	19959.2	19446.4
45°	23240.3	23339.6	23088.6	22465.5	21994.0	21812.1	22647.5	21652.2	21343.4	20836.0
47.5°	22082.3	22206.3	22267.0	22134.7	22129.1	22313.9	23557.4	22964.6	22986.6	22468.3
50°	19840.7	20050.2	20607.2	21075.9	21801.0	22710.9	24442.4	24387.3	24839.5	24392.8
52.5°	15765.6	16063.3	17982.3	19264.4	20893.9	22636.5	25415.7	26670.2	28090.2	27436.7
55°	12669.3	12669.3	14229.8	16628.6	19123.8	22145.7	25840.3	28153.6	30304.2	30149.8
57.5°	10328.4	10452.5	11447.8	13568.1	16562.4	20976.6	26102.2	29085.5	32088.1	31975.0
60°	6374.6	6642.1	8522.5	10615.2	13648.1	18895.0	25936.8	30028.5	34252.5	34343.5
62.5°	3589.9	3689.1	4527.3	7637.4	10612.4	16096.4	24671.3	30555.1	37020.7	37406.7
65°	2478.7	2528.3	2850.9	4753.4	7356.2	12815.4	22198.1	30227.0	39794.4	40574.7
67.5°	1800.4	1825.3	2026.5	2903.3	4364.6	9291.7	18321.5	28572.7	41264.0	42568.1
70°	1384.1	1400.6	1546.8	1908.0	2578.0	5734.9	13306.2	25283.4	40199.7	41757.5
72.5°	1124.9	1141.5	1254.5	1411.7	1709.5	3391.3	8064.8	20532.7	35501.5	37183.4
75°	948.5	970.5	1072.5	1174.6	1340.0	2178.2	3782.9	14298.7	26697.8	27800.7
77.5°	526.6	485.3	871.3	973.3	1130.4	1378.6	1770.1	8414.9	14952.2	15258.2
80°	328.1	339.1	692.1	783.0	868.5	694.8	810.6	3239.7	5183.5	4924.3
82.5°	19.3	44.1	532.1	565.2	595.6	297.8	306.0	1100.1	1249.0	1147.0
85°	0.0	0.0	242.6	195.8	206.8	85.5	88.2	256.4	168.2	182.0
87.5°	0.0	0.0	0.0	5.5	0.0	8.3	16.5	22.1	8.3	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954797
 CATALOG NUMBER: GALN-SB7D-940-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5120.1	0°	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1	5120.1
5382.0	2.5°	5189.0	4996.0	4604.5	4221.2	3909.7	3620.2	3413.4	3217.6	3118.4	3112.9
5729.4	5°	5346.2	4940.9	4157.8	3465.8	2908.8	2462.2	2172.7	1965.9	1861.1	1825.3
6156.8	7.5°	5566.8	4957.4	3766.3	2804.1	2147.8	1764.6	1599.2	1533.0	1510.9	1486.1
6639.3	10°	5845.2	4996.0	3416.1	2258.1	1692.9	1499.9	1433.7	1406.2	1389.6	1373.1
7182.5	12.5°	6156.8	5031.9	3068.7	1874.9	1488.9	1389.6	1342.7	1309.7	1287.6	1268.3
7739.4	15°	6460.1	5053.9	2707.6	1607.4	1384.1	1304.1	1254.5	1218.7	1188.3	1166.3
8285.3	17.5°	6760.6	5084.2	2368.4	1447.5	1298.6	1218.7	1169.0	1124.9	1100.1	1075.3
8858.8	20°	7094.2	5078.7	2048.6	1334.5	1213.2	1133.2	1080.8	1039.5	1014.6	987.1
9465.4	22.5°	7403.0	5051.2	1767.4	1238.0	1124.9	1047.7	989.8	948.5	923.7	901.6
10085.8	25°	7758.7	5029.1	1533.0	1149.7	1042.2	965.0	901.6	863.0	835.4	816.1
10708.9	27.5°	8100.6	4996.0	1362.0	1069.8	962.3	887.8	827.2	783.0	758.2	744.4
11351.3	30°	8437.0	4987.7	1298.6	992.6	890.6	816.1	755.5	714.1	694.8	689.3
12057.2	32.5°	8842.3	5009.8	1326.2	965.0	824.4	750.0	692.1	661.7	642.4	642.4
12843.0	35°	9275.2	5004.3	1367.6	989.8	780.3	683.8	639.7	620.4	601.1	601.1
13714.2	37.5°	9818.3	5012.6	1400.6	1031.2	763.7	628.6	603.8	579.0	568.0	568.0
14668.2	40°	10628.9	5285.5	1384.1	1067.0	758.2	590.0	540.4	532.1	523.9	523.9
15746.3	42.5°	11621.5	5878.3	1406.2	1069.8	755.5	562.5	496.3	512.8	493.5	490.8
16962.2	45°	12707.9	6526.3	1546.8	1011.9	752.7	548.7	474.2	493.5	463.2	463.2
18371.1	47.5°	13785.9	7168.7	1690.2	929.2	744.4	545.9	454.9	443.9	435.6	438.4
20207.4	50°	15272.0	7692.5	1745.3	816.1	725.1	540.4	419.1	421.8	416.3	421.8
22796.4	52.5°	16890.5	7802.8	1679.1	689.3	670.0	523.9	394.3	405.3	402.5	408.1
24618.9	55°	17899.6	7684.3	1386.9	573.5	584.5	457.7	369.5	391.5	391.5	391.5
26400.0	57.5°	18941.8	7179.7	984.3	466.0	485.3	375.0	347.4	377.7	375.0	372.2
28545.1	60°	19691.8	6363.6	647.9	383.2	386.0	308.8	322.6	355.7	352.9	339.1
30756.4	62.5°	20251.5	5462.0	416.3	325.3	295.0	278.5	295.0	322.6	311.6	281.2
32631.3	65°	20188.1	4213.0	319.8	278.5	242.6	242.6	256.4	281.2	248.1	198.5
32989.7	67.5°	19010.8	2850.9	264.7	234.4	204.0	201.3	212.3	234.4	212.3	168.2
31153.4	70°	16907.0	1863.9	212.3	182.0	162.7	148.9	170.9	201.3	179.2	135.1
26521.3	72.5°	13722.5	1136.0	159.9	132.3	118.6	96.5	135.1	165.4	143.4	99.3
18442.8	75°	8878.1	579.0	110.3	85.5	63.4	57.9	99.3	124.1	99.3	60.7
8183.3	77.5°	3396.8	242.6	60.7	38.6	33.1	27.6	55.1	74.4	41.4	13.8
1585.4	80°	653.5	102.0	30.3	19.3	16.5	11.0	8.3	5.5	0.0	0.0
281.2	82.5°	113.0	33.1	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
55.1	85°	38.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19.3	87.5°	13.8	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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<u>180°</u>
5120.1
3107.3
1819.7
1480.6
1367.6
1262.8
1163.5
1072.5
984.3
898.8
813.4
744.4
686.5
642.4
601.1
568.0
523.9
488.0
463.2
438.4
421.8
408.1
391.5
372.2
339.1
275.7
193.0
162.7
129.6
93.7
52.4
11.0
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