

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: STREETWORKS

Report Number: P638132

Luminaire Tested: **IFLD-S-SA2D-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638132
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11864.9 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
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: 25 FT



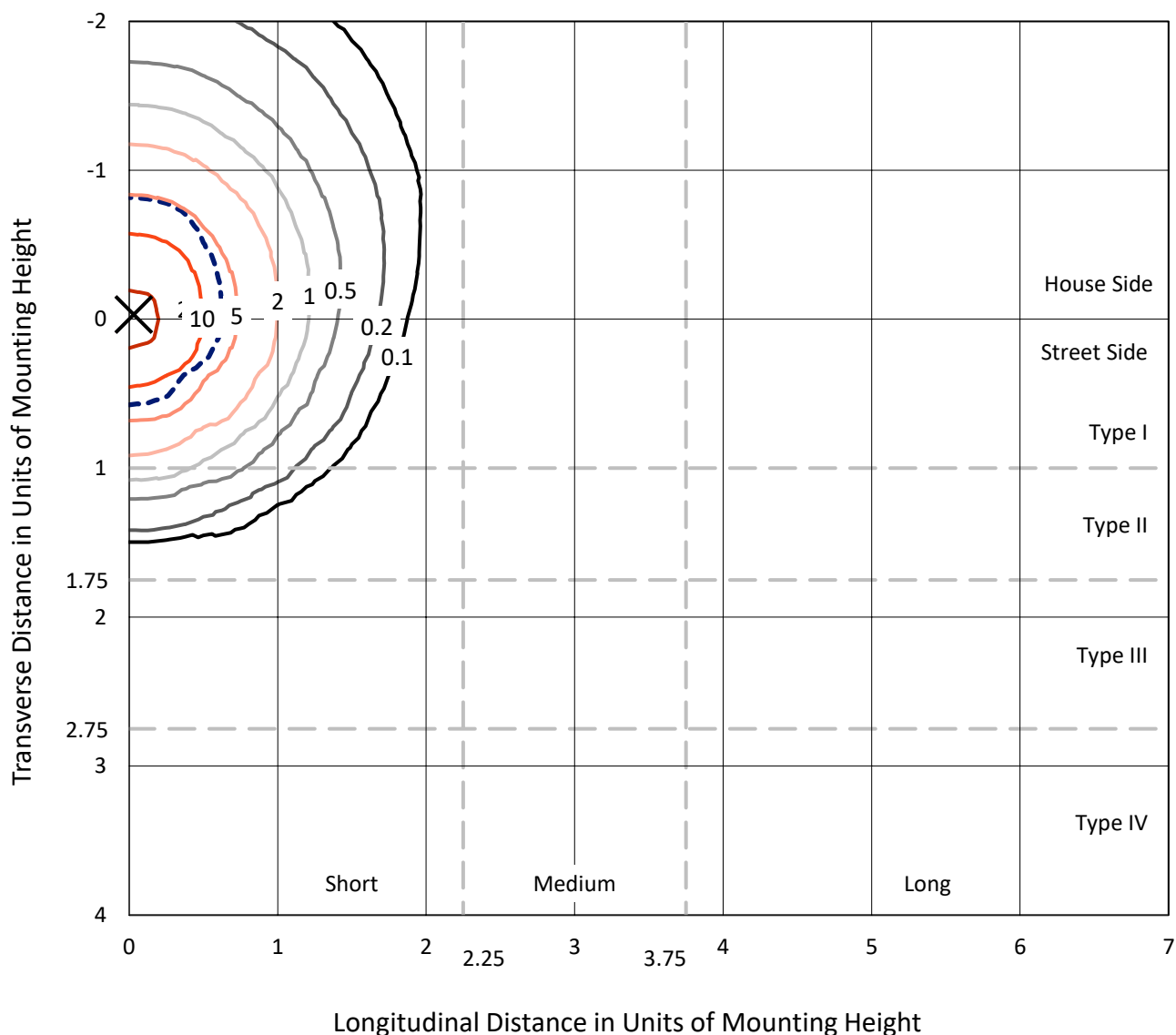
REPORT NUMBER: P638132

CATALOG NUMBER: IFLD-S-SA2D-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



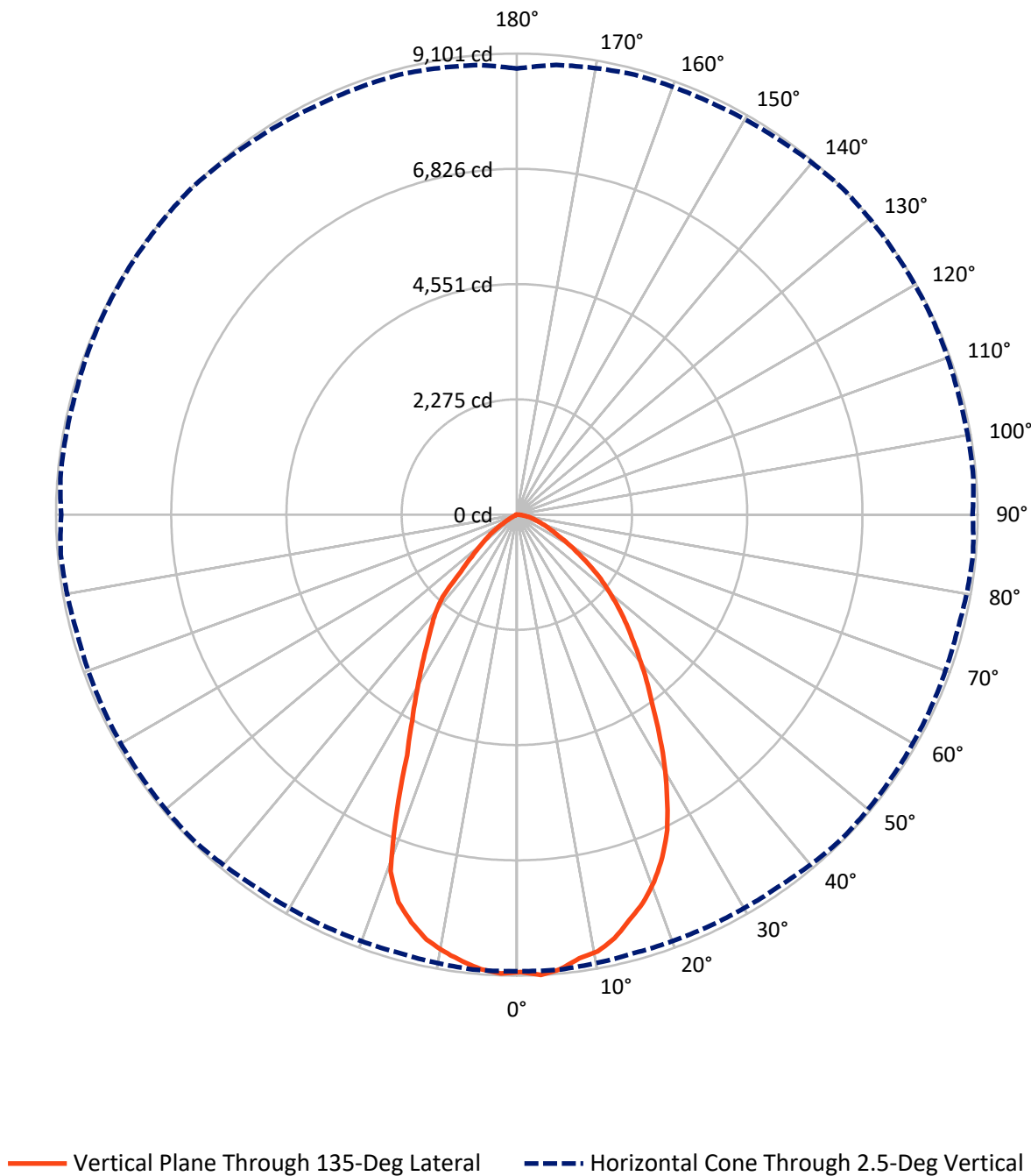
Based on 20 foot mounting height. Maximum calculated value = 22.6 fc

Type I - Short - N/A

REPORT NUMBER: P638132

CATALOG NUMBER: IFLD-S-SA2D-735-U-77-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P638132

CATALOG NUMBER: IFLD-S-SA2D-735-U-77-VI

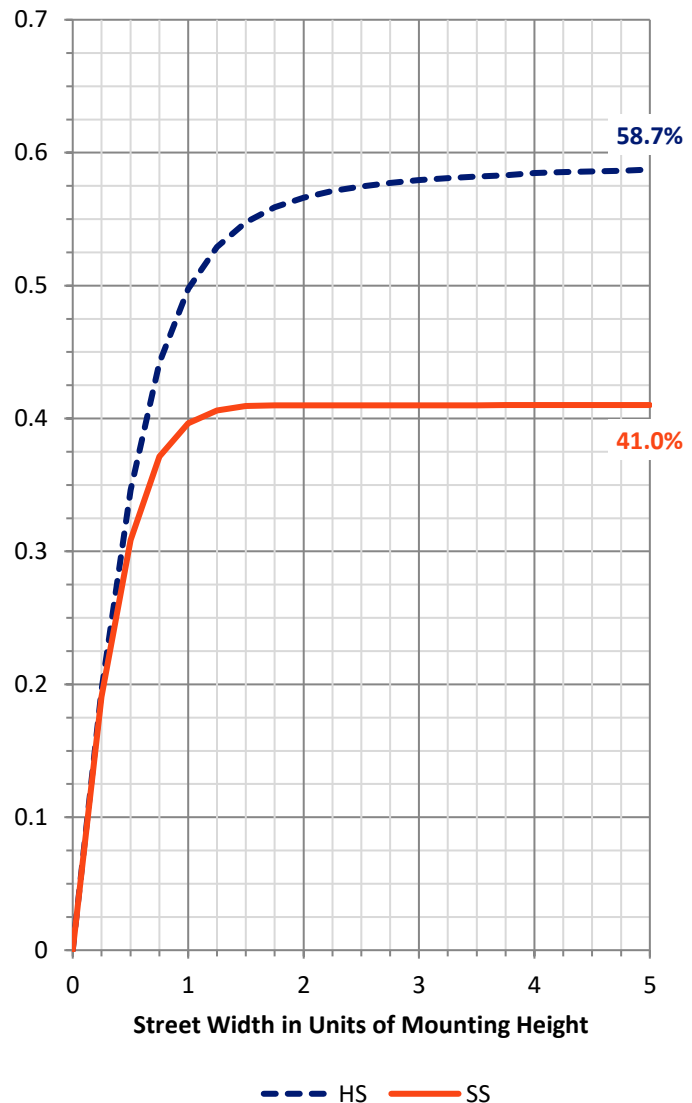
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7027.0	0.0	7027.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4837.9	0.0	4837.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	11864.9	0.0	11864.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.8	7.1
10°-20°	2270.7	19.1
20°-30°	2769.3	23.3
30°-40°	2528.3	21.3
40°-50°	1827.2	15.4
50°-60°	997.6	8.4
60°-70°	412.5	3.5
70°-80°	167.1	1.4
80°-90°	45.4	0.4
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°	11864.9	100.0
0°-180°	11864.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638132

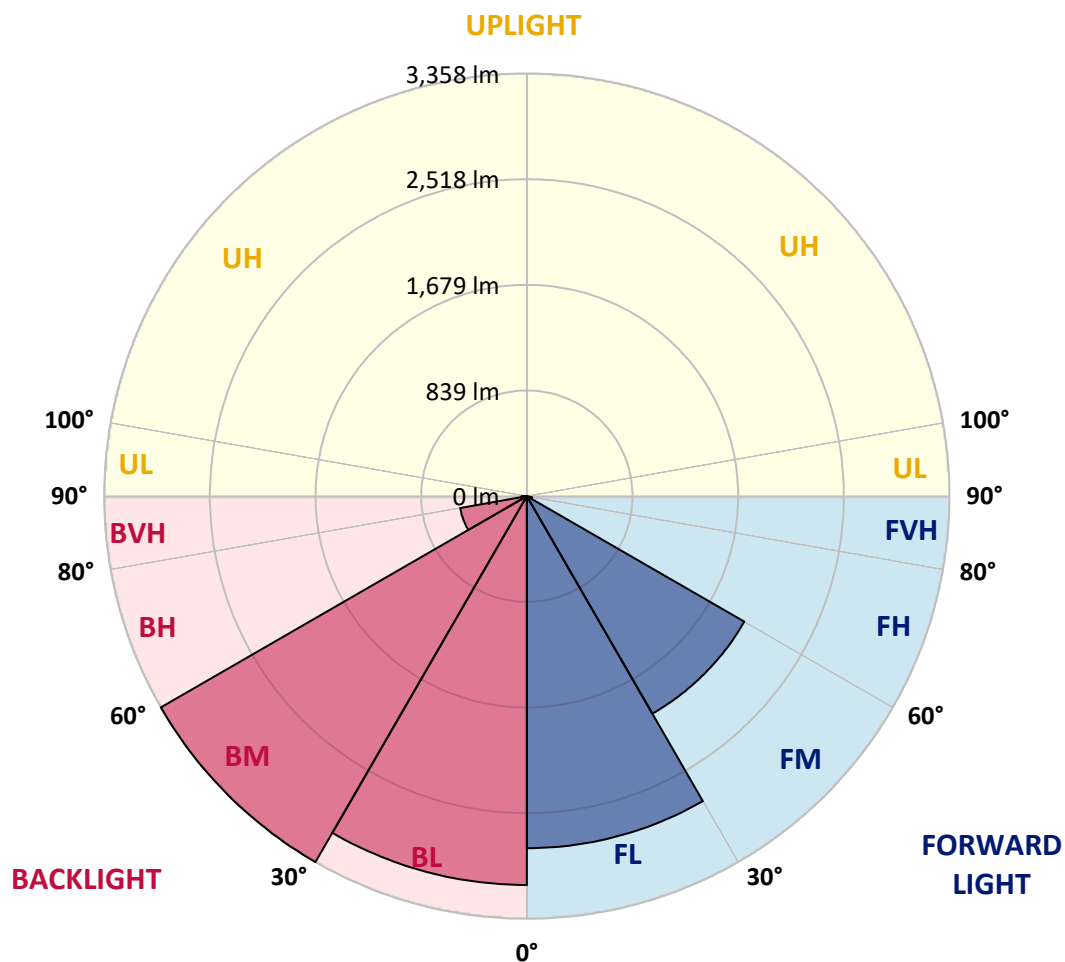
CATALOG NUMBER: IFLD-S-SA2D-735-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2797.0	23.6			
FM	(30°-60°)	1995.4	16.8			
FH	(60°-80°)	41.8	0.4			G0/660
FVH	(80°-90°)	3.6	0.0			G0/10
BL	(0°-30°)	3089.8	26.0	B4/5000		
BM	(30°-60°)	3357.7	28.3	B3/5000		
BH	(60°-80°)	537.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	41.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short



REPORT NUMBER: P638132

CATALOG NUMBER: IFLD-S-SA2D-735-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1
2.5°	9012.4	9024.1	8960.6	8967.3	8979.0	9064.2	9042.5	9022.4	8994.0	9042.5
5°	9000.7	9007.4	8940.6	8917.2	8927.2	9004.1	8933.9	8933.9	8927.2	8918.9
7.5°	8910.5	8913.8	8862.0	8820.3	8847.0	8882.1	8830.3	8855.4	8818.6	8847.0
10°	8775.2	8753.4	8691.6	8679.9	8710.0	8743.4	8708.3	8731.7	8698.3	8720.0
12.5°	8576.3	8542.9	8492.8	8477.8	8529.6	8574.7	8546.3	8532.9	8489.5	8542.9
15°	7809.4	7784.4	7898.0	8096.8	8275.6	8314.0	8283.9	8297.3	8207.1	8222.1
17.5°	6427.7	6380.9	6502.8	6974.0	7645.7	7999.9	7973.2	7886.3	7752.6	7782.7
20°	5841.2	5827.8	5814.5	5926.4	6395.9	7470.3	7507.0	7286.5	7096.0	7054.2
22.5°	5510.4	5505.4	5492.0	5517.1	5640.7	6330.7	6751.8	6548.0	6421.0	6409.3
25°	5208.0	5199.6	5159.5	5191.2	5191.2	5231.3	5771.0	5894.7	5782.7	5769.4
27.5°	4900.5	4885.5	4878.8	4893.8	4817.0	4546.3	4683.3	5286.5	5228.0	5231.3
30°	4568.0	4563.0	4544.6	4576.4	4339.1	4003.3	3916.4	4735.1	4746.8	4743.5
32.5°	4073.5	4095.2	4178.7	4213.8	3822.8	3545.5	3400.1	4096.9	4335.8	4330.8
35°	2959.0	2959.0	3231.4	3737.6	3350.0	3141.1	3062.6	3473.6	3929.8	3946.5
37.5°	2432.7	2441.1	2494.5	2725.1	2890.5	2817.0	2793.6	2923.9	3408.5	3435.2
40°	2188.8	2188.8	2188.8	2093.5	2088.5	2538.0	2524.6	2482.8	2944.0	3002.5
42.5°	1966.6	1971.6	1974.9	1734.3	1600.6	2193.8	2163.7	2100.2	2528.0	2596.5
45°	1737.7	1746.0	1756.0	1450.3	1391.8	1578.9	1831.2	1761.0	2116.9	2205.5
47.5°	1061.0	1074.3	1301.6	1229.7	1236.4	1218.0	1493.7	1482.0	1736.0	1861.3
50°	716.8	721.8	743.5	780.3	1061.0	957.4	1057.6	1226.4	1318.3	1508.8
52.5°	601.5	609.9	556.4	506.3	696.7	748.5	738.5	910.6	947.4	1182.9
55°	422.7	449.5	424.4	419.4	396.0	581.4	559.7	700.1	723.5	898.9
57.5°	43.4	50.1	86.9	312.4	259.0	329.2	399.3	512.9	536.3	663.3
60°	3.3	3.3	8.4	43.4	188.8	197.2	275.7	315.8	360.9	462.8
62.5°	0.0	1.7	3.3	6.7	30.1	105.3	138.7	165.4	217.2	299.1
65°	0.0	0.0	1.7	5.0	6.7	40.1	53.5	86.9	118.6	185.5
67.5°	0.0	0.0	1.7	3.3	5.0	10.0	18.4	31.7	63.5	105.3
70°	0.0	0.0	1.7	3.3	5.0	8.4	13.4	20.0	28.4	56.8
72.5°	0.0	0.0	1.7	1.7	3.3	8.4	10.0	13.4	20.0	28.4
75°	0.0	0.0	1.7	1.7	5.0	10.0	8.4	10.0	13.4	18.4
77.5°	0.0	0.0	1.7	3.3	5.0	10.0	8.4	10.0	10.0	11.7
80°	0.0	0.0	1.7	3.3	6.7	11.7	10.0	10.0	8.4	8.4
82.5°	0.0	0.0	1.7	5.0	6.7	15.0	15.0	13.4	6.7	5.0
85°	0.0	0.0	3.3	6.7	10.0	16.7	16.7	13.4	5.0	3.3
87.5°	0.0	0.0	3.3	5.0	8.4	11.7	16.7	13.4	5.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P638132

CATALOG NUMBER: IFLD-S-SA2D-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9029.1	0°	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1	9029.1
9000.7	2.5°	9045.8	9035.8	9069.2	9082.6	9101.0	9030.8	8987.4	8989.0	8908.8
8898.8	5°	8952.3	8953.9	8997.4	8994.0	9012.4	8974.0	8957.3	8928.9	8858.7
8770.2	7.5°	8833.6	8818.6	8860.4	8892.1	8845.3	8872.1	8833.6	8847.0	8805.2
8656.5	10°	8741.7	8706.7	8745.1	8766.8	8768.5	8741.7	8705.0	8669.9	8654.9
8479.4	12.5°	8537.9	8492.8	8558.0	8588.0	8583.0	8531.2	8489.5	8497.8	8449.4
8168.7	15°	8257.2	8258.9	8305.7	8334.1	8307.3	8295.6	8299.0	8278.9	8237.2
7739.3	17.5°	7827.8	7852.9	7976.5	8045.0	8060.1	8036.7	8025.0	8001.6	7959.8
7054.2	20°	7112.7	7263.1	7483.6	7695.8	7737.6	7730.9	7689.1	7679.1	7655.7
6375.9	22.5°	6484.5	6596.4	6852.0	7182.9	7353.3	7370.0	7319.9	7304.8	7279.8
5769.4	25°	5834.5	5954.8	6185.4	6544.6	6897.2	6969.0	6960.6	6915.5	6888.8
5231.3	27.5°	5286.5	5406.8	5615.6	5939.8	6317.4	6548.0	6569.7	6497.8	6496.2
4751.8	30°	4791.9	4957.3	5116.1	5380.1	5746.0	6091.8	6128.6	6078.5	6083.5
4312.4	32.5°	4404.3	4541.3	4676.6	4853.7	5157.8	5560.5	5704.2	5657.4	5639.0
3946.5	35°	4008.3	4101.9	4240.5	4402.6	4609.8	5009.1	5258.1	5223.0	5204.6
3451.9	37.5°	3557.2	3717.6	3817.8	4000.0	4162.0	4479.5	4830.4	4825.3	4786.9
3030.9	40°	3094.4	3263.1	3415.2	3599.0	3724.3	3976.6	4365.9	4364.2	4369.2
2594.8	42.5°	2675.0	2830.4	3014.2	3214.7	3335.0	3518.8	3936.5	3959.9	3988.3
2235.6	45°	2295.7	2436.1	2606.5	2850.4	2995.8	3101.0	3472.0	3578.9	3577.2
1914.8	47.5°	1954.9	2086.9	2230.5	2467.8	2653.3	2748.5	3055.9	3208.0	3198.0
1570.6	50°	1640.7	1757.7	1908.1	2080.2	2329.1	2412.7	2641.6	2842.1	2827.0
1251.4	52.5°	1320.0	1482.0	1609.0	1766.1	2028.4	2110.2	2287.4	2482.8	2471.1
939.0	55°	1029.2	1186.3	1340.0	1475.3	1695.9	1817.9	1944.8	2145.3	2142.0
735.2	57.5°	778.6	950.7	1096.1	1224.7	1400.1	1550.5	1652.4	1834.6	1858.0
502.9	60°	576.4	708.4	865.5	1009.2	1147.9	1303.2	1371.7	1550.5	1560.5
344.2	62.5°	392.6	538.0	691.7	822.0	925.6	1086.0	1147.9	1294.9	1313.3
220.5	65°	272.3	365.9	541.3	634.9	761.9	898.9	960.7	1077.7	1114.4
127.0	67.5°	180.4	260.6	422.7	507.9	633.2	726.8	805.3	900.6	940.7
80.2	70°	98.6	192.1	302.4	401.0	509.6	599.8	676.7	753.5	788.6
36.8	72.5°	66.8	128.7	210.5	317.5	411.0	499.6	568.1	624.9	626.6
21.7	75°	33.4	86.9	160.4	245.6	320.8	407.7	469.5	502.9	462.8
13.4	77.5°	20.0	63.5	130.3	197.2	260.6	329.2	364.2	382.6	317.5
10.0	80°	11.7	45.1	101.9	157.1	180.4	242.3	275.7	280.7	212.2
6.7	82.5°	8.4	33.4	80.2	115.3	110.3	170.4	207.2	200.5	135.3
5.0	85°	5.0	23.4	50.1	71.8	66.8	111.9	120.3	123.6	78.5
3.3	87.5°	3.3	13.4	26.7	38.4	31.7	48.5	48.5	58.5	38.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
9029.1
8805.2
8842.0
8735.1
8588.0
8407.6
8195.4
7941.4
7602.2
7273.1
6860.4
6492.8
6058.4
5640.7
5179.6
4818.7
4369.2
3973.2
3580.6
3201.3
2840.4
2496.2
2150.3
1847.9
1575.6
1316.6
1106.1
935.7
775.3
611.5
432.7
305.8
198.8
125.3
71.8
33.4
0.0

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