

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: P636767

Luminaire Tested: **IFLD-S-SA2B-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636767  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5831.5 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

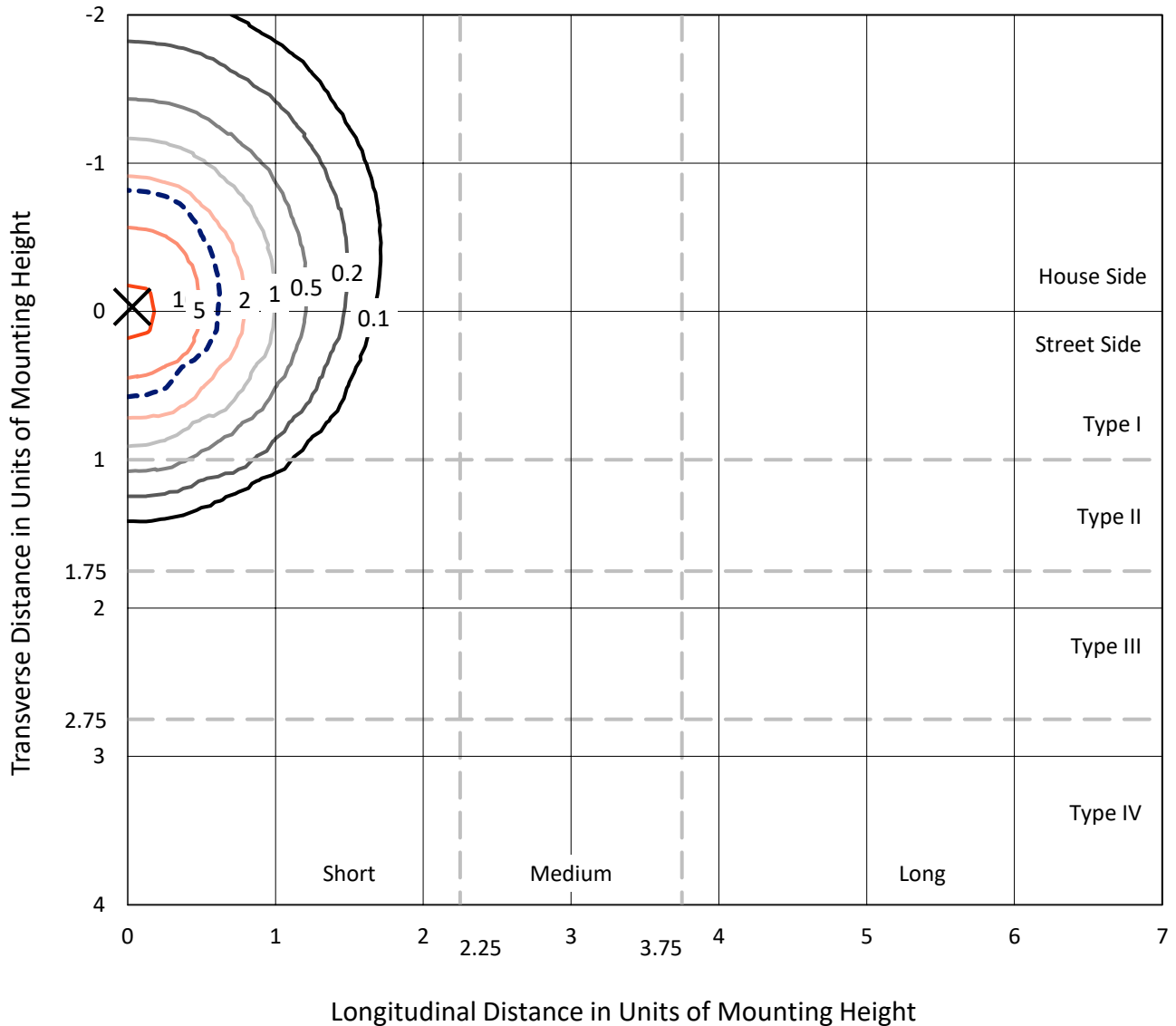
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

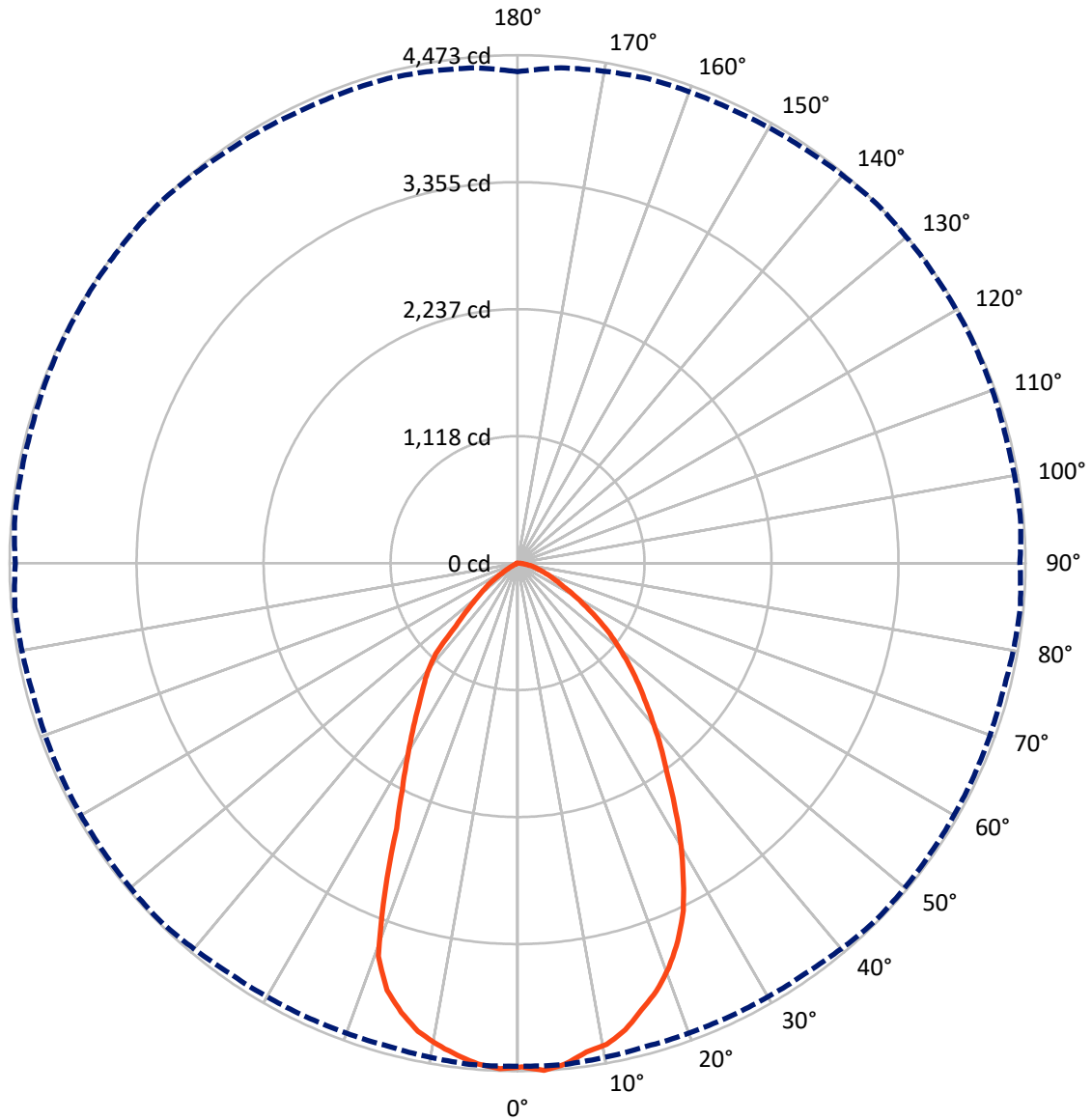
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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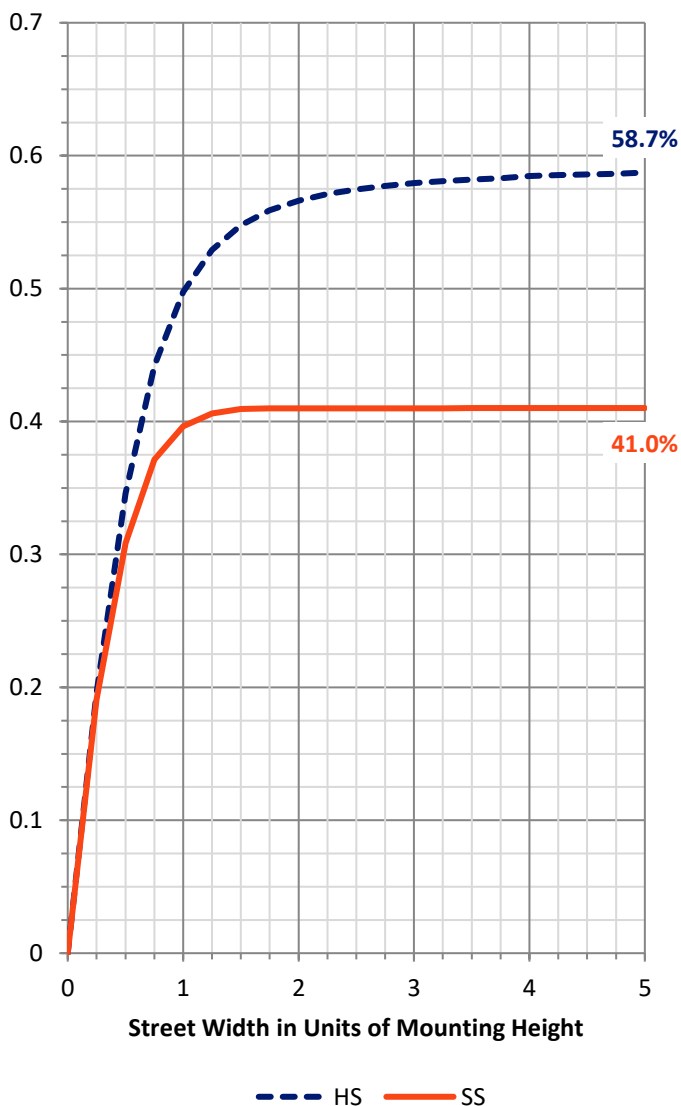
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3453.7	0.0	3453.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	2377.8	0.0	2377.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	5831.5	0.0	5831.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.2	7.1
10°-20°	1116.0	19.1
20°-30°	1361.1	23.3
30°-40°	1242.6	21.3
40°-50°	898.0	15.4
50°-60°	490.3	8.4
60°-70°	202.7	3.5
70°-80°	82.1	1.4
80°-90°	22.3	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°	5831.5	100.0
0°-180°	5831.5	100.0



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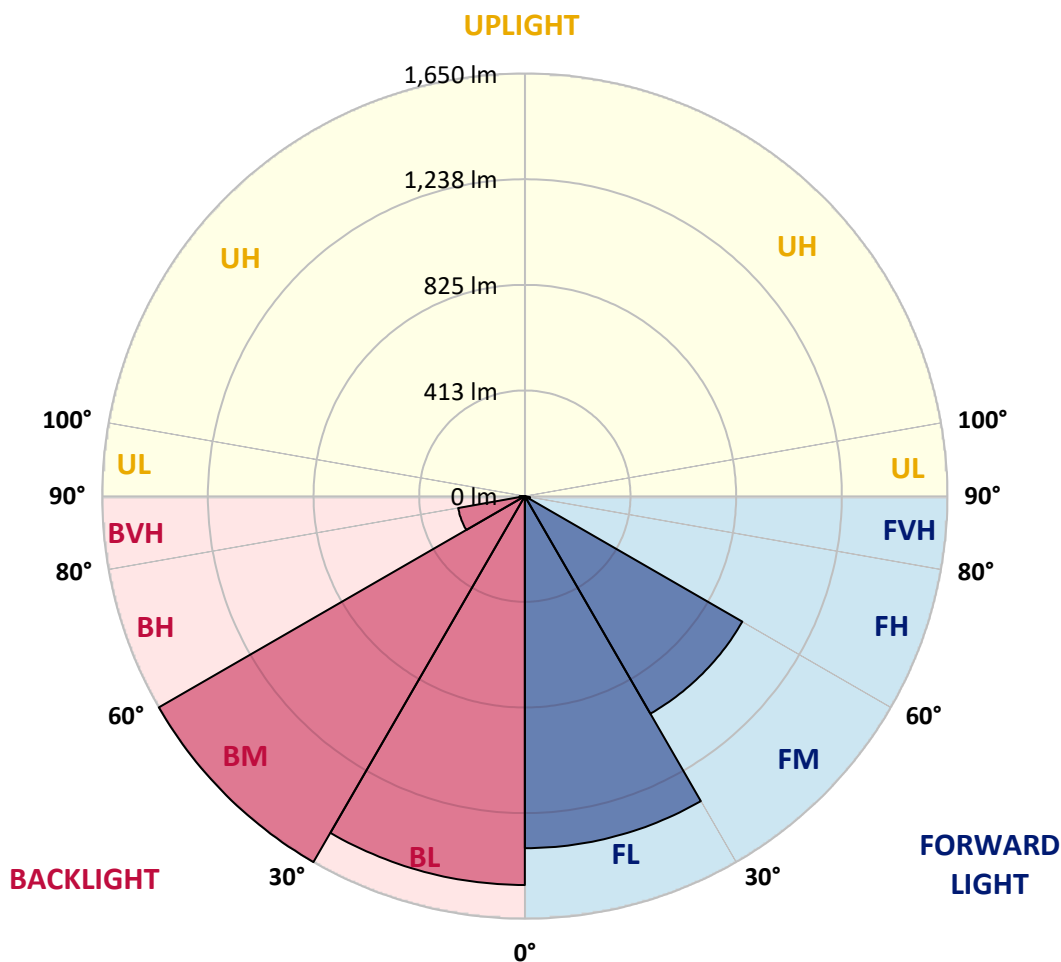
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.7	23.6			
FM (30°-60°)	980.8	16.8			
FH (60°-80°)	20.5	0.4			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1518.6	26.0	B3/2500		
BM (30°-60°)	1650.3	28.3	B2/2500		
BH (60°-80°)	264.3	4.5	B1/500		G1/500
BVH (80°-90°)	20.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	4429.5	4435.3	4404.1	4407.4	4413.1	4455.0	4444.3	4434.5	4420.5	4444.3
5°	4423.8	4427.1	4394.2	4382.7	4387.7	4425.4	4390.9	4390.9	4387.7	4383.5
7.5°	4379.4	4381.1	4355.6	4335.1	4348.2	4365.5	4340.0	4352.3	4334.3	4348.2
10°	4312.9	4302.3	4271.9	4266.1	4280.9	4297.3	4280.1	4291.6	4275.2	4285.8
12.5°	4215.2	4198.8	4174.1	4166.8	4192.2	4214.4	4200.4	4193.9	4172.5	4198.8
15°	3838.3	3826.0	3881.8	3979.5	4067.4	4086.3	4071.5	4078.1	4033.7	4041.1
17.5°	3159.1	3136.2	3196.1	3427.7	3757.8	3931.9	3918.8	3876.0	3810.4	3825.1
20°	2870.9	2864.3	2857.8	2912.8	3143.5	3671.6	3689.6	3581.2	3487.6	3467.1
22.5°	2708.3	2705.8	2699.3	2711.6	2772.4	3111.5	3318.5	3218.3	3155.9	3150.1
25°	2559.7	2555.6	2535.9	2551.5	2551.5	2571.2	2836.4	2897.2	2842.2	2835.6
27.5°	2408.6	2401.2	2397.9	2405.3	2367.5	2234.5	2301.8	2598.3	2569.5	2571.2
30°	2245.2	2242.7	2233.7	2249.3	2132.6	1967.6	1924.9	2327.3	2333.0	2331.4
32.5°	2002.1	2012.8	2053.8	2071.1	1878.9	1742.6	1671.1	2013.6	2131.0	2128.5
35°	1454.3	1454.3	1588.2	1837.0	1646.5	1543.9	1505.3	1707.3	1931.5	1939.7
37.5°	1195.7	1199.8	1226.0	1339.4	1420.7	1384.5	1373.0	1437.1	1675.2	1688.4
40°	1075.8	1075.8	1075.8	1029.0	1026.5	1247.4	1240.8	1220.3	1446.9	1475.7
42.5°	966.5	969.0	970.7	852.4	786.7	1078.2	1063.5	1032.2	1242.5	1276.1
45°	854.0	858.2	863.1	712.8	684.1	776.0	900.0	865.5	1040.5	1084.0
47.5°	521.5	528.0	639.7	604.4	607.7	598.7	734.2	728.4	853.2	914.8
50°	352.3	354.8	365.4	383.5	521.5	470.5	519.8	602.8	647.9	741.5
52.5°	295.6	299.7	273.5	248.8	342.4	367.9	363.0	447.6	465.6	581.4
55°	207.8	220.9	208.6	206.1	194.6	285.8	275.1	344.1	355.6	441.8
57.5°	21.4	24.6	42.7	153.6	127.3	161.8	196.3	252.1	263.6	326.0
60°	1.6	1.6	4.1	21.4	92.8	96.9	135.5	155.2	177.4	227.5
62.5°	0.0	0.8	1.6	3.3	14.8	51.7	68.2	81.3	106.8	147.0
65°	0.0	0.0	0.8	2.5	3.3	19.7	26.3	42.7	58.3	91.2
67.5°	0.0	0.0	0.8	1.6	2.5	4.9	9.0	15.6	31.2	51.7
70°	0.0	0.0	0.8	1.6	2.5	4.1	6.6	9.9	14.0	27.9
72.5°	0.0	0.0	0.8	0.8	1.6	4.1	4.9	6.6	9.9	14.0
75°	0.0	0.0	0.8	0.8	2.5	4.9	4.1	4.9	6.6	9.0
77.5°	0.0	0.0	0.8	1.6	2.5	4.9	4.1	4.9	4.9	5.7
80°	0.0	0.0	0.8	1.6	3.3	5.7	4.9	4.9	4.1	4.1
82.5°	0.0	0.0	0.8	2.5	3.3	7.4	7.4	6.6	3.3	2.5
85°	0.0	0.0	1.6	3.3	4.9	8.2	8.2	6.6	2.5	1.6
87.5°	0.0	0.0	1.6	2.5	4.1	5.7	8.2	6.6	2.5	0.8
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):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4437.7	0°	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7	4437.7
4423.8	2.5°	4446.0	4441.0	4457.5	4464.0	4473.1	4438.6	4417.2	4418.0	4378.6
4373.7	5°	4400.0	4400.8	4422.1	4420.5	4429.5	4410.6	4402.4	4388.5	4354.0
4310.5	7.5°	4341.7	4334.3	4354.8	4370.4	4347.4	4360.6	4341.7	4348.2	4327.7
4254.6	10°	4296.5	4279.3	4298.1	4308.8	4309.6	4296.5	4278.4	4261.2	4253.8
4167.6	12.5°	4196.3	4174.1	4206.2	4221.0	4218.5	4193.0	4172.5	4176.6	4152.8
4014.8	15°	4058.4	4059.2	4082.2	4096.1	4083.0	4077.2	4078.9	4069.0	4048.5
3803.8	17.5°	3847.3	3859.6	3920.4	3954.1	3961.5	3950.0	3944.2	3932.7	3912.2
3467.1	20°	3495.8	3569.7	3678.1	3782.4	3803.0	3799.7	3779.1	3774.2	3762.7
3133.7	22.5°	3187.1	3242.1	3367.7	3530.3	3614.1	3622.3	3597.7	3590.3	3578.0
2835.6	25°	2867.6	2926.7	3040.1	3216.6	3389.9	3425.2	3421.1	3398.9	3385.8
2571.2	27.5°	2598.3	2657.4	2760.0	2919.4	3104.9	3218.3	3228.9	3193.6	3192.8
2335.5	30°	2355.2	2436.5	2514.5	2644.3	2824.1	2994.1	3012.2	2987.5	2990.0
2119.5	32.5°	2164.7	2232.0	2298.5	2385.6	2535.0	2732.9	2803.6	2780.6	2771.5
1939.7	35°	1970.1	2016.0	2084.2	2163.9	2265.7	2461.9	2584.3	2567.1	2558.0
1696.6	37.5°	1748.3	1827.2	1876.4	1965.9	2045.6	2201.6	2374.1	2371.6	2352.7
1489.7	40°	1520.9	1603.8	1678.5	1768.9	1830.4	1954.4	2145.8	2145.0	2147.4
1275.3	42.5°	1314.7	1391.1	1481.4	1580.0	1639.1	1729.4	1934.7	1946.2	1960.2
1098.8	45°	1128.3	1197.3	1281.1	1401.0	1472.4	1524.1	1706.4	1759.0	1758.2
941.1	47.5°	960.8	1025.7	1096.3	1212.9	1304.1	1350.9	1502.0	1576.7	1571.8
771.9	50°	806.4	863.9	937.8	1022.4	1144.7	1185.8	1298.3	1396.9	1389.5
615.1	52.5°	648.7	728.4	790.8	868.0	996.9	1037.2	1124.2	1220.3	1214.6
461.5	55°	505.9	583.0	658.6	725.1	833.5	893.5	955.9	1054.4	1052.8
361.3	57.5°	382.7	467.3	538.7	601.9	688.2	762.1	812.2	901.7	913.2
247.2	60°	283.3	348.2	425.4	496.0	564.2	640.5	674.2	762.1	767.0
169.2	62.5°	193.0	264.4	340.0	404.0	454.9	533.8	564.2	636.4	645.5
108.4	65°	133.9	179.8	266.1	312.1	374.5	441.8	472.2	529.7	547.7
62.4	67.5°	88.7	128.1	207.8	249.6	311.2	357.2	395.8	442.6	462.3
39.4	70°	48.5	94.4	148.6	197.1	250.5	294.8	332.6	370.4	387.6
18.1	72.5°	32.8	63.2	103.5	156.0	202.0	245.5	279.2	307.1	307.9
10.7	75°	16.4	42.7	78.8	120.7	157.7	200.4	230.8	247.2	227.5
6.6	77.5°	9.9	31.2	64.1	96.9	128.1	161.8	179.0	188.1	156.0
4.9	80°	5.7	22.2	50.1	77.2	88.7	119.1	135.5	138.0	104.3
3.3	82.5°	4.1	16.4	39.4	56.7	54.2	83.8	101.8	98.5	66.5
2.5	85°	2.5	11.5	24.6	35.3	32.8	55.0	59.1	60.8	38.6
1.6	87.5°	1.6	6.6	13.1	18.9	15.6	23.8	23.8	28.7	18.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
4437.7
4327.7
4345.8
4293.2
4221.0
4132.3
4028.0
3903.1
3736.4
3574.7
3371.8
3191.2
2977.7
2772.4
2545.7
2368.3
2147.4
1952.8
1759.8
1573.4
1396.0
1226.9
1056.9
908.2
774.4
647.1
543.6
459.9
381.0
300.6
212.7
150.3
97.7
61.6
35.3
16.4
0.0

(END OF REPORT)