

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: P638101

Luminaire Tested: **IFLD-S-SA2B-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638101
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7997.2 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

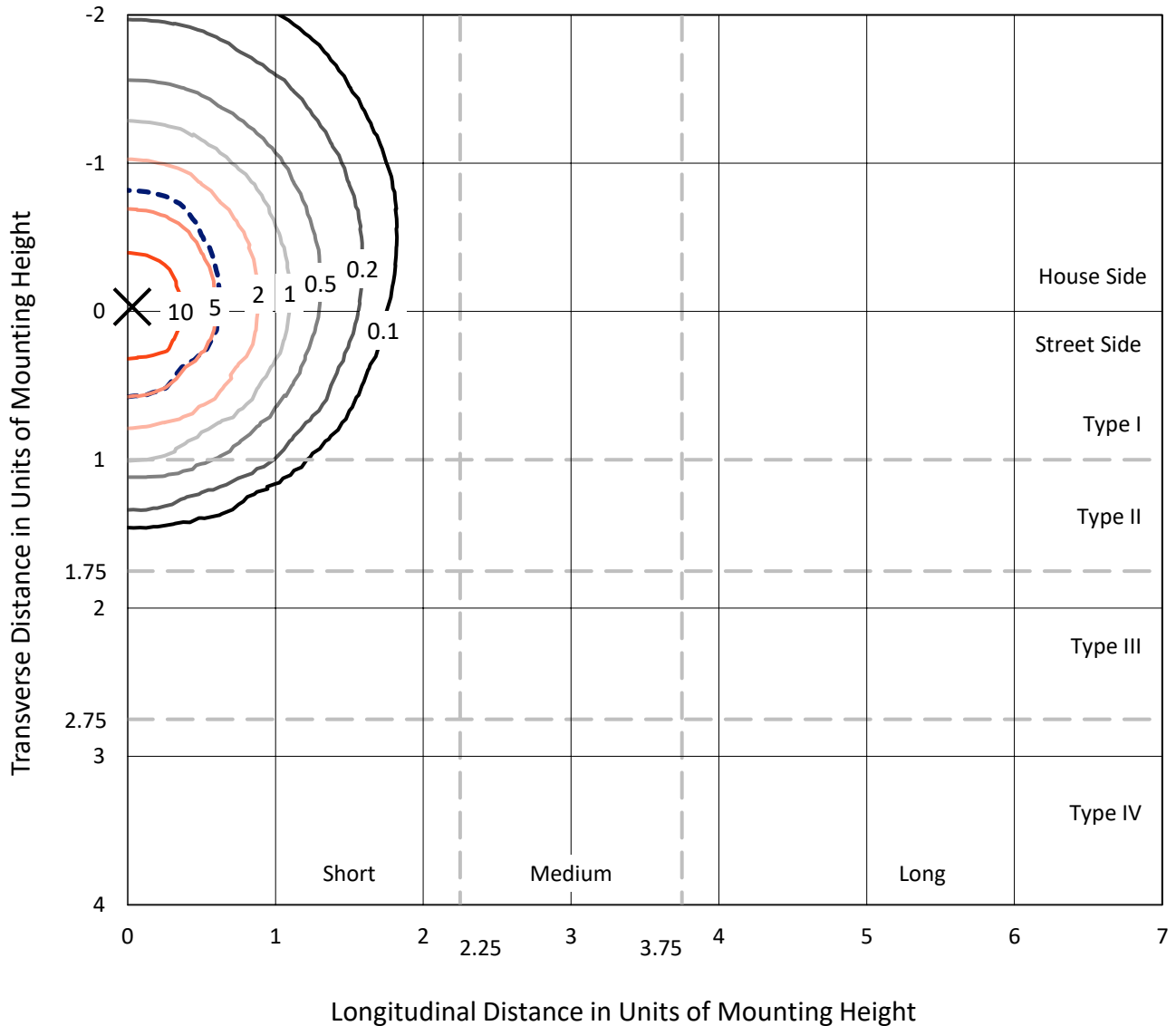
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

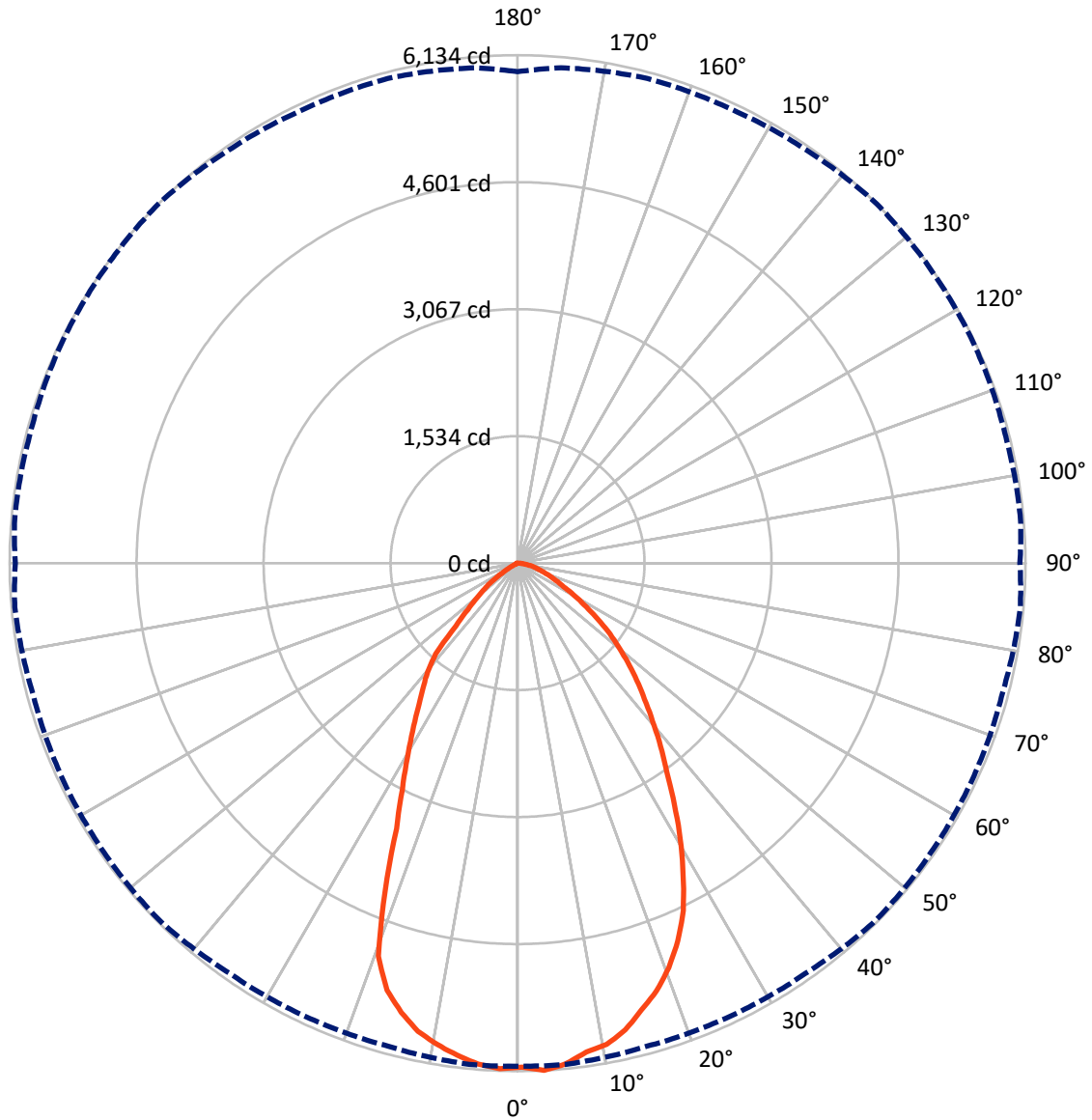
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.2 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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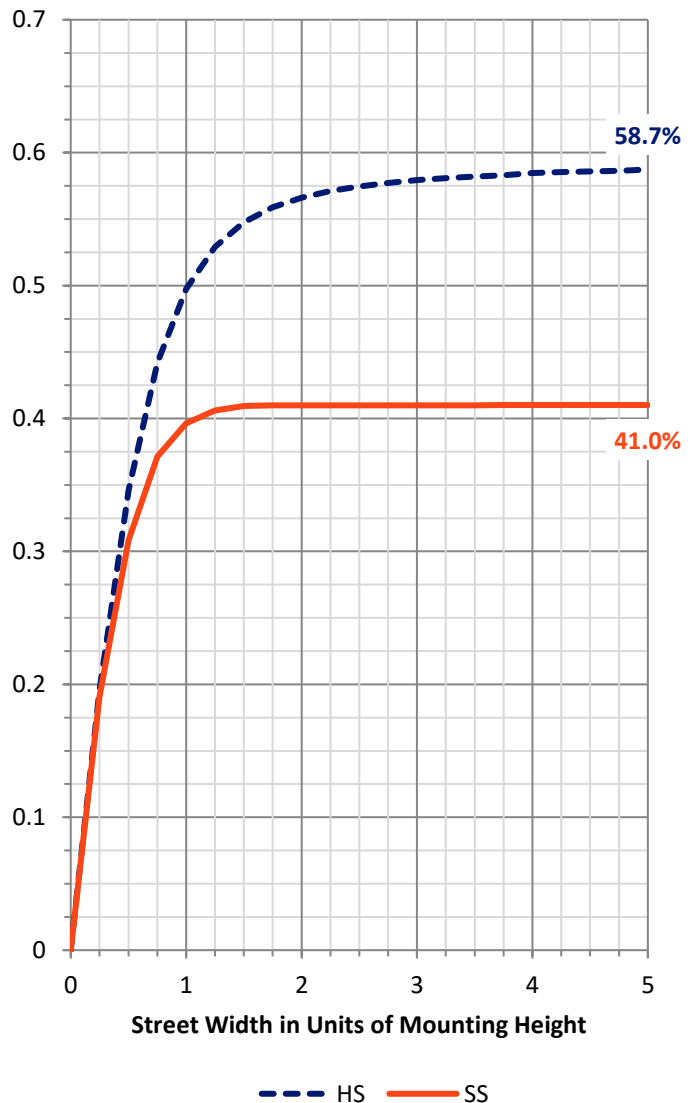
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4736.4	0.0	4736.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3260.9	0.0	3260.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	7997.2	0.0	7997.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.8	7.1
10°-20°	1530.5	19.1
20°-30°	1866.6	23.3
30°-40°	1704.1	21.3
40°-50°	1231.5	15.4
50°-60°	672.4	8.4
60°-70°	278.0	3.5
70°-80°	112.6	1.4
80°-90°	30.6	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°	7997.2	100.0
0°-180°	7997.2	100.0



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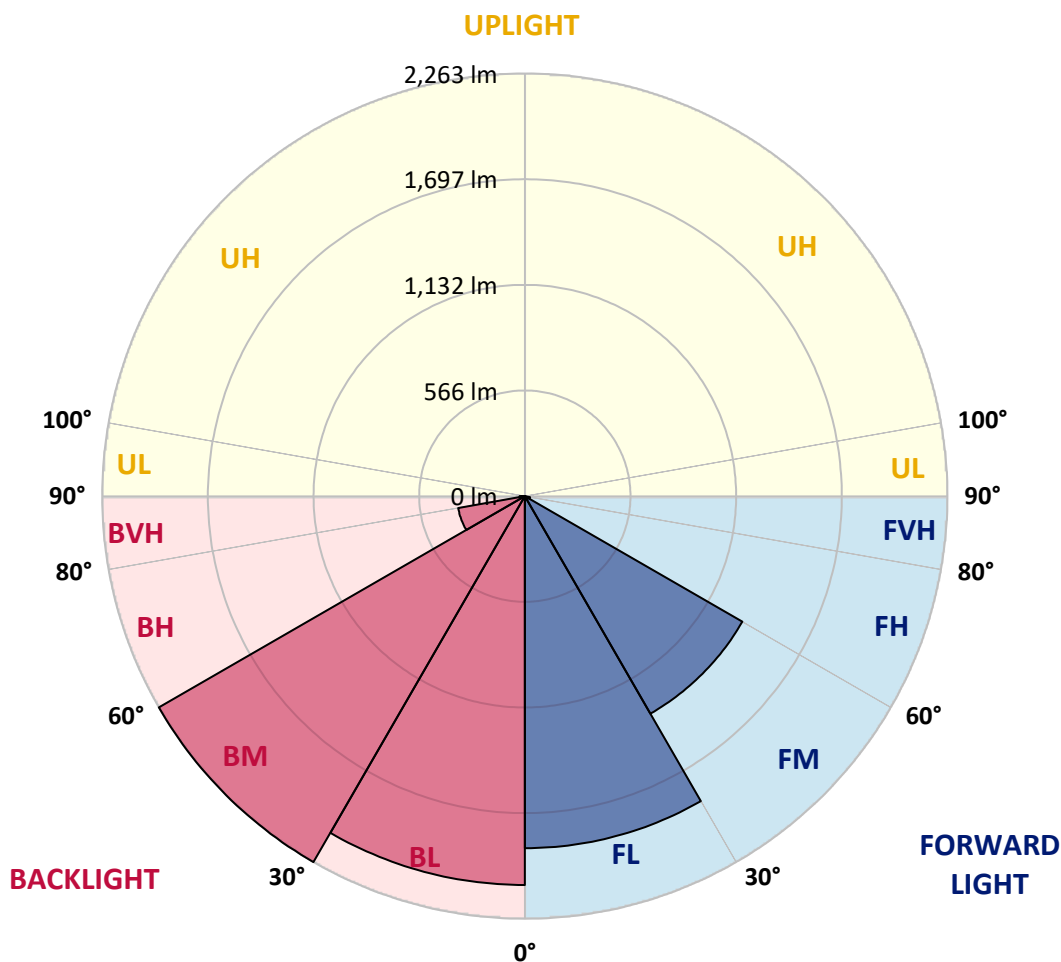
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.2	23.6			
FM (30°-60°)	1345.0	16.8			
FH (60°-80°)	28.2	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	2082.6	26.0	B3/2500		
BM (30°-60°)	2263.1	28.3	B2/2500		
BH (60°-80°)	362.4	4.5	B1/500		G1/500
BVH (80°-90°)	28.2	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°	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9
2.5°	6074.6	6082.5	6039.7	6044.2	6052.1	6109.5	6094.9	6081.4	6062.2	6094.9
5°	6066.7	6071.2	6026.2	6010.4	6017.2	6069.0	6021.7	6021.7	6017.2	6011.5
7.5°	6005.9	6008.2	5973.2	5945.1	5963.1	5986.8	5951.8	5968.7	5944.0	5963.1
10°	5914.7	5900.0	5858.4	5850.5	5870.8	5893.3	5869.6	5885.4	5862.9	5877.5
12.5°	5780.7	5758.1	5724.4	5714.2	5749.1	5779.5	5760.4	5751.4	5722.1	5758.1
15°	5263.8	5246.9	5323.4	5457.5	5578.0	5603.9	5583.6	5592.6	5531.8	5541.9
17.5°	4332.4	4300.9	4383.1	4700.7	5153.4	5392.1	5374.1	5315.6	5225.5	5245.7
20°	3937.1	3928.1	3919.1	3994.6	4311.0	5035.1	5059.9	4911.3	4782.9	4754.7
22.5°	3714.1	3710.8	3701.7	3718.6	3802.0	4267.1	4550.9	4413.5	4327.9	4320.0
25°	3510.3	3504.7	3477.6	3499.0	3499.0	3526.1	3889.8	3973.2	3897.7	3888.7
27.5°	3303.1	3292.9	3288.4	3298.6	3246.8	3064.3	3156.7	3563.2	3523.8	3526.1
30°	3079.0	3075.6	3063.2	3084.6	2924.7	2698.3	2639.8	3191.6	3199.5	3197.2
32.5°	2745.6	2760.3	2816.6	2840.2	2576.7	2389.7	2291.8	2761.4	2922.4	2919.1
35°	1994.5	1994.5	2178.0	2519.3	2258.0	2117.2	2064.3	2341.3	2648.8	2660.0
37.5°	1639.7	1645.3	1681.4	1836.8	1948.3	1898.7	1883.0	1970.8	2297.4	2315.4
40°	1475.3	1475.3	1475.3	1411.1	1407.7	1710.7	1701.7	1673.5	1984.3	2023.7
42.5°	1325.5	1328.9	1331.1	1169.0	1078.9	1478.7	1458.4	1415.6	1703.9	1750.1
45°	1171.2	1176.9	1183.6	977.5	938.1	1064.2	1234.3	1187.0	1426.9	1486.6
47.5°	715.1	724.1	877.3	828.9	833.4	821.0	1006.8	998.9	1170.1	1254.6
50°	483.1	486.5	501.1	525.9	715.1	645.3	712.9	826.6	888.6	1016.9
52.5°	405.4	411.1	375.0	341.2	469.6	504.5	497.8	613.8	638.5	797.3
55°	284.9	302.9	286.0	282.7	266.9	391.9	377.3	471.9	487.6	605.9
57.5°	29.3	33.8	58.6	210.6	174.6	221.9	269.2	345.7	361.5	447.1
60°	2.3	2.3	5.6	29.3	127.3	132.9	185.8	212.8	243.3	312.0
62.5°	0.0	1.1	2.3	4.5	20.3	70.9	93.5	111.5	146.4	201.6
65°	0.0	0.0	1.1	3.4	4.5	27.0	36.0	58.6	80.0	125.0
67.5°	0.0	0.0	1.1	2.3	3.4	6.8	12.4	21.4	42.8	70.9
70°	0.0	0.0	1.1	2.3	3.4	5.6	9.0	13.5	19.1	38.3
72.5°	0.0	0.0	1.1	1.1	2.3	5.6	6.8	9.0	13.5	19.1
75°	0.0	0.0	1.1	1.1	3.4	6.8	5.6	6.8	9.0	12.4
77.5°	0.0	0.0	1.1	2.3	3.4	6.8	5.6	6.8	6.8	7.9
80°	0.0	0.0	1.1	2.3	4.5	7.9	6.8	6.8	5.6	5.6
82.5°	0.0	0.0	1.1	3.4	4.5	10.1	10.1	9.0	4.5	3.4
85°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	9.0	3.4	2.3
87.5°	0.0	0.0	2.3	3.4	5.6	7.9	11.3	9.0	3.4	1.1
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°
6085.9	0°	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9	6085.9
6066.7	2.5°	6097.1	6090.4	6112.9	6121.9	6134.3	6087.0	6057.7	6058.8	6004.8
5998.0	5°	6034.1	6035.2	6064.5	6062.2	6074.6	6048.7	6037.4	6018.3	5971.0
5911.3	7.5°	5954.1	5944.0	5972.1	5993.5	5962.0	5980.0	5954.1	5963.1	5935.0
5834.7	10°	5892.2	5868.5	5894.4	5909.1	5910.2	5892.2	5867.4	5843.7	5833.6
5715.4	12.5°	5754.8	5724.4	5768.3	5788.6	5785.2	5750.3	5722.1	5727.7	5695.1
5505.9	15°	5565.6	5566.7	5598.2	5617.4	5599.4	5591.5	5593.7	5580.2	5552.1
5216.5	17.5°	5276.1	5293.0	5376.4	5422.5	5432.7	5416.9	5409.0	5393.3	5365.1
4754.7	20°	4794.1	4895.5	5044.1	5187.2	5215.3	5210.8	5182.7	5175.9	5160.1
4297.5	22.5°	4370.7	4446.1	4618.5	4841.4	4956.3	4967.6	4933.8	4923.6	4906.8
3888.7	25°	3932.6	4013.7	4169.1	4411.2	4648.9	4697.3	4691.7	4661.2	4643.2
3526.1	27.5°	3563.2	3644.3	3785.1	4003.6	4258.1	4413.5	4428.1	4379.7	4378.6
3202.8	30°	3229.9	3341.4	3448.4	3626.3	3872.9	4106.0	4130.8	4097.0	4100.4
2906.7	32.5°	2968.6	3061.0	3152.2	3271.5	3476.5	3747.9	3844.8	3813.2	3800.8
2660.0	35°	2701.7	2764.8	2858.2	2967.5	3107.1	3376.3	3544.1	3520.4	3508.0
2326.7	37.5°	2397.6	2505.7	2573.3	2696.1	2805.3	3019.3	3255.8	3252.4	3226.5
2042.9	40°	2085.7	2199.4	2301.9	2425.8	2510.2	2680.3	2942.7	2941.6	2945.0
1749.0	42.5°	1803.0	1907.7	2031.6	2166.8	2247.9	2371.7	2653.3	2669.0	2688.2
1506.8	45°	1547.4	1642.0	1756.8	1921.3	2019.2	2090.2	2340.2	2412.3	2411.1
1290.6	47.5°	1317.6	1406.6	1503.4	1663.4	1788.4	1852.6	2059.8	2162.3	2155.5
1058.6	50°	1105.9	1184.7	1286.1	1402.1	1569.9	1626.2	1780.5	1915.6	1905.5
843.5	52.5°	889.7	998.9	1084.5	1190.4	1367.2	1422.4	1541.7	1673.5	1665.6
632.9	55°	693.7	799.6	903.2	994.4	1143.1	1225.3	1310.9	1446.0	1443.8
495.5	57.5°	524.8	640.8	738.8	825.5	943.7	1045.1	1113.8	1236.5	1252.3
339.0	60°	388.5	477.5	583.4	680.2	773.7	878.4	924.6	1045.1	1051.8
232.0	62.5°	264.7	362.6	466.2	554.1	623.9	732.0	773.7	872.8	885.2
148.7	65°	183.6	246.6	364.9	427.9	513.5	605.9	647.6	726.4	751.2
85.6	67.5°	121.6	175.7	284.9	342.4	426.8	489.9	542.8	607.0	634.0
54.1	70°	66.4	129.5	203.8	270.3	343.5	404.3	456.1	507.9	531.6
24.8	72.5°	45.0	86.7	141.9	214.0	277.0	336.7	382.9	421.2	422.3
14.6	75°	22.5	58.6	108.1	165.5	216.2	274.8	316.5	339.0	312.0
9.0	77.5°	13.5	42.8	87.8	132.9	175.7	221.9	245.5	257.9	214.0
6.8	80°	7.9	30.4	68.7	105.9	121.6	163.3	185.8	189.2	143.0
4.5	82.5°	5.6	22.5	54.1	77.7	74.3	114.9	139.6	135.1	91.2
3.4	85°	3.4	15.8	33.8	48.4	45.0	75.5	81.1	83.3	52.9
2.3	87.5°	2.3	9.0	18.0	25.9	21.4	32.7	32.7	39.4	25.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6085.9
5935.0
5959.7
5887.7
5788.6
5666.9
5523.9
5352.7
5124.1
4902.3
4624.1
4376.3
4083.5
3802.0
3491.2
3247.9
2945.0
2678.1
2413.4
2157.8
1914.5
1682.5
1449.4
1245.6
1062.0
887.4
745.5
630.7
522.5
412.2
291.7
206.1
134.0
84.5
48.4
22.5
0.0

(END OF REPORT)