

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: P477138

Luminaire Tested: **IFLD-S-SA2B-830-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477138  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

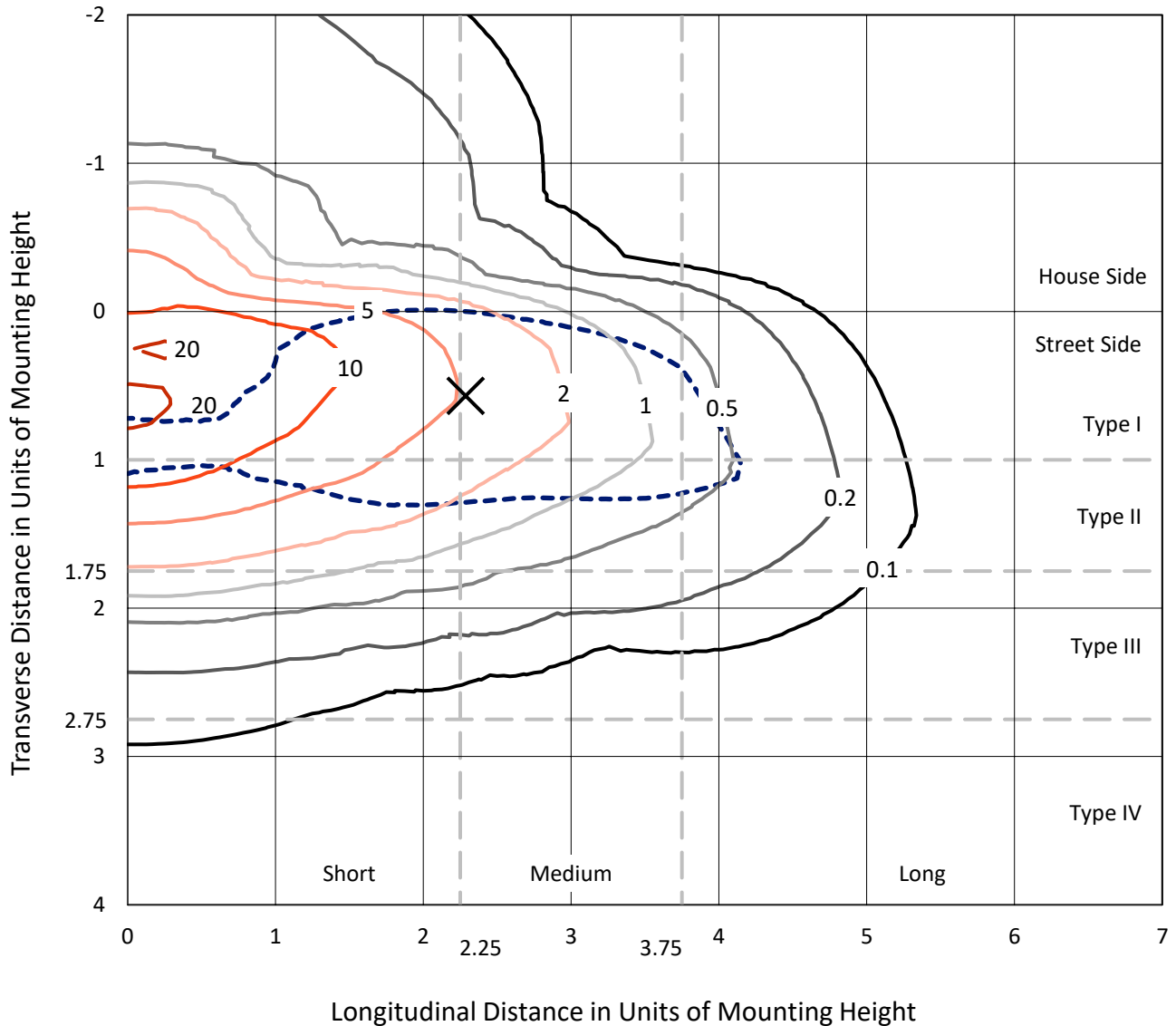
Lumens per Lamp: N/A  
Luminaire Lumens: 9123.5 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

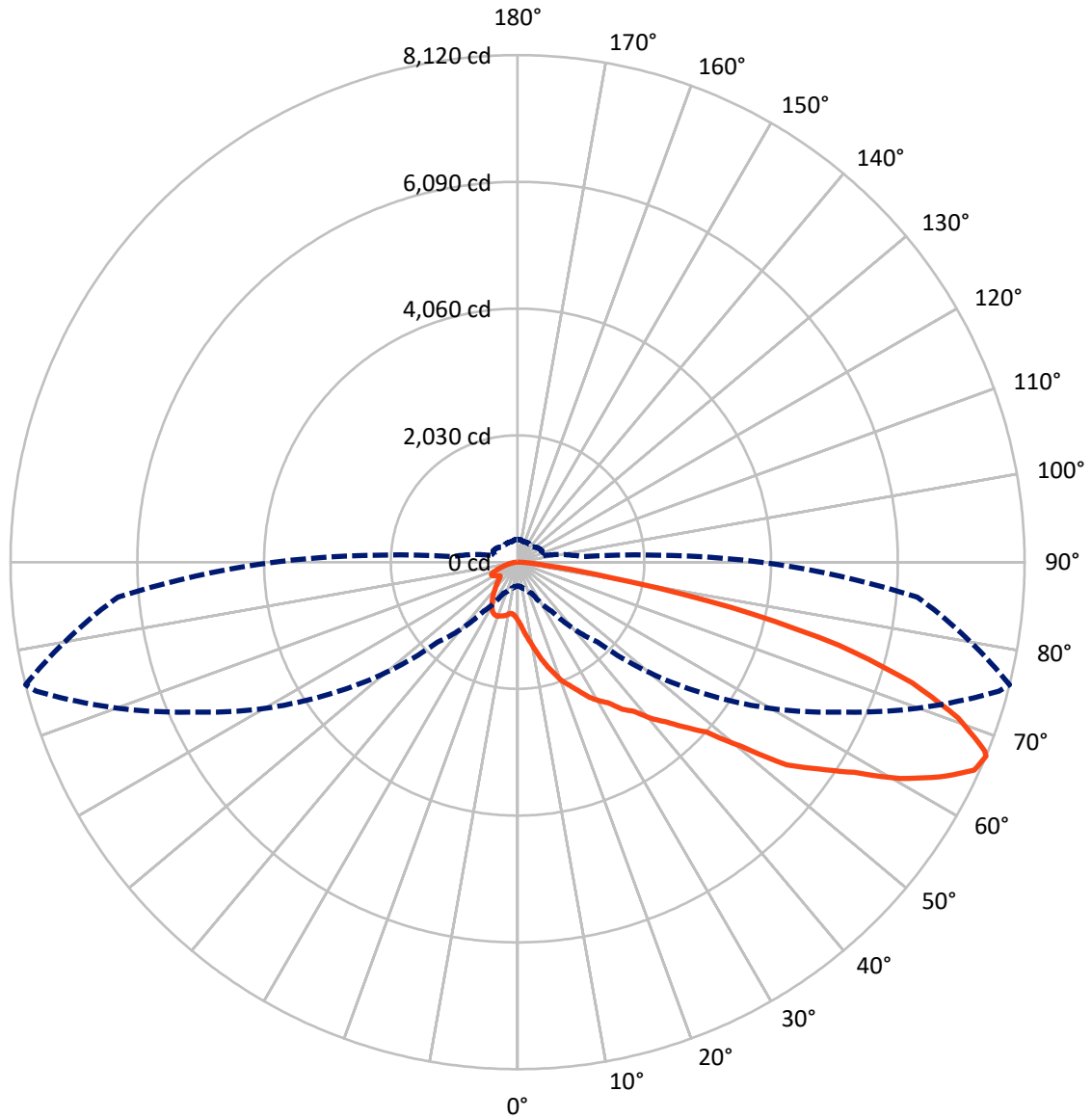
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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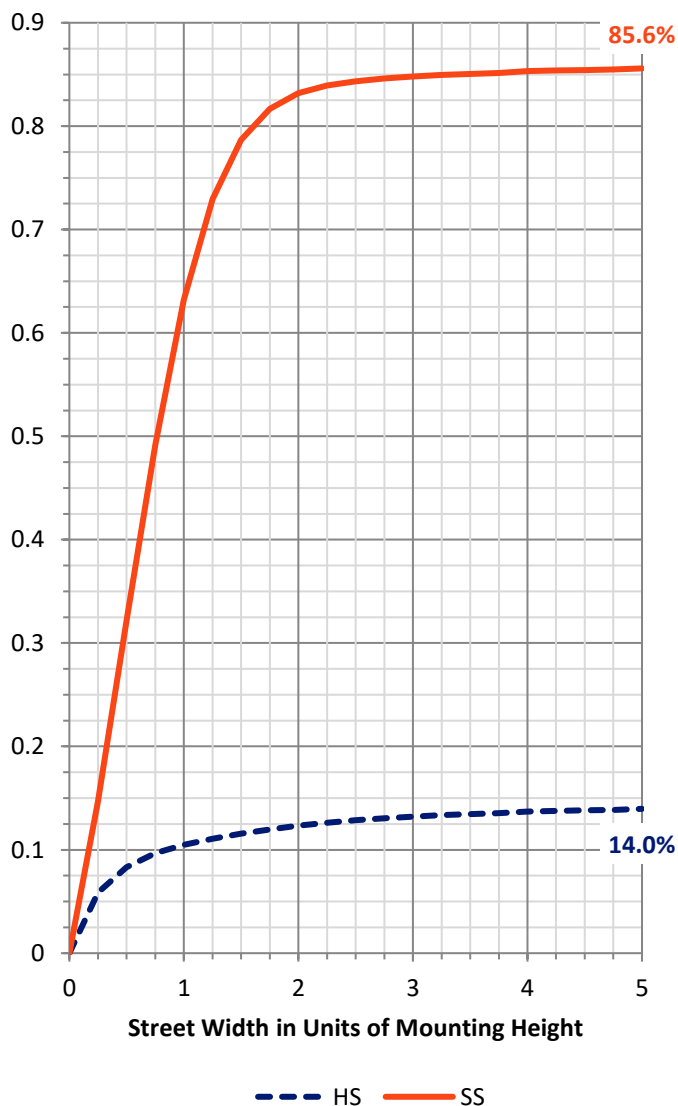
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1297.9	0.0	1297.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	7825.6	0.0	7825.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	9123.5	0.0	9123.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.1	1.2
10°-20°	405.6	4.4
20°-30°	754.1	8.3
30°-40°	1195.4	13.1
40°-50°	1653.4	18.1
50°-60°	2033.8	22.3
60°-70°	1892.5	20.7
70°-80°	949.6	10.4
80°-90°	130.9	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°	9123.5	100.0
0°-180°	9123.5	100.0

**Coefficient of Utilization**



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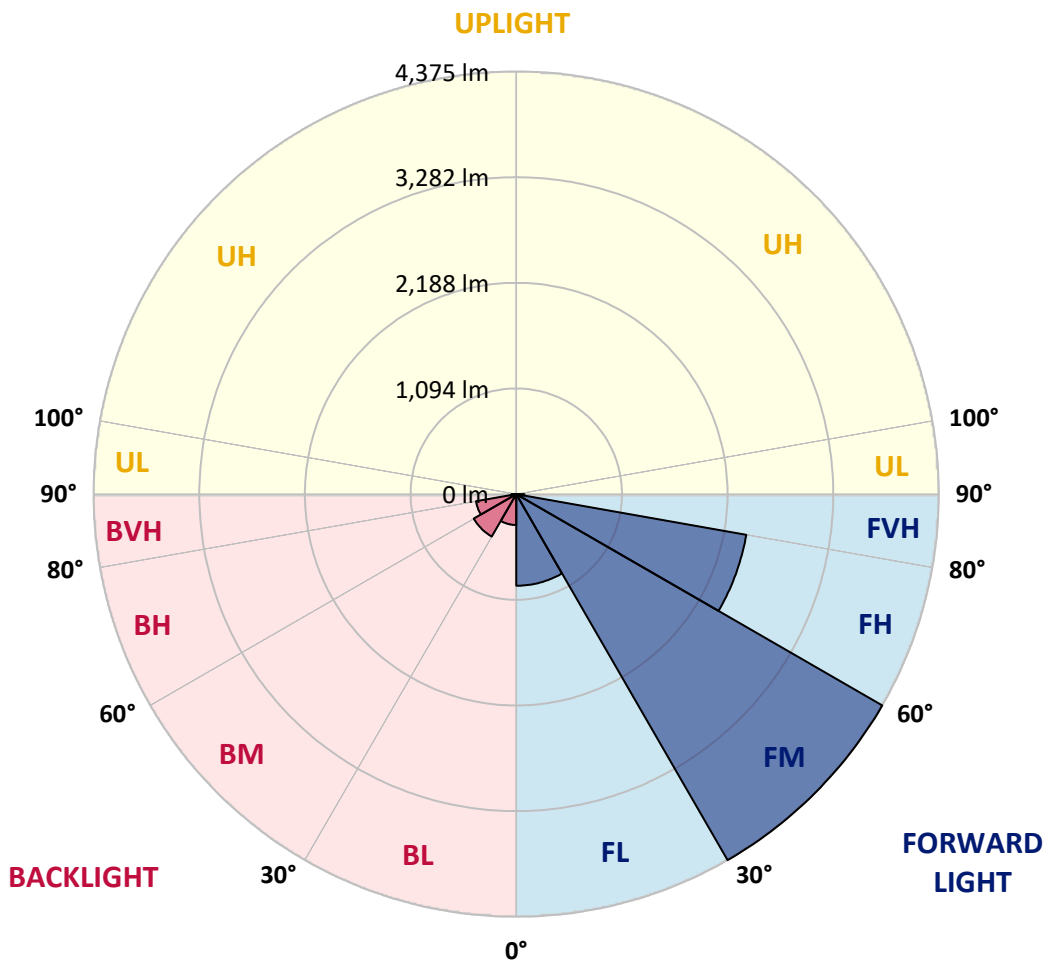
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.2	10.4			
FM (30°-60°)	4375.4	48.0			
FH (60°-80°)	2418.6	26.5			G2/5000
FVH (80°-90°)	83.4	0.9			G1/100
BL (0°-30°)	319.6	3.5	B1/500		
BM (30°-60°)	507.2	5.6	B1/1000		
BH (60°-80°)	423.6	4.6	B1/500		G1/500
BVH (80°-90°)	47.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7
2.5°	1295.5	1279.9	1264.3	1231.0	1219.6	1188.4	1131.2	1067.8	1015.8	1008.5	972.1
5°	1607.4	1584.5	1579.3	1560.6	1501.3	1441.0	1347.5	1245.6	1118.7	1128.1	1003.3
7.5°	1841.3	1827.8	1799.7	1782.1	1746.7	1666.6	1570.0	1434.8	1273.6	1242.4	1073.0
10°	2018.1	1999.4	1998.3	1982.7	1964.0	1881.9	1808.0	1626.1	1419.2	1376.6	1158.2
12.5°	2107.5	2104.4	2159.5	2159.5	2152.2	2117.9	1991.0	1824.7	1557.5	1542.9	1257.0
15°	2204.2	2178.2	2226.0	2262.4	2281.1	2298.8	2193.8	2018.1	1734.2	1706.2	1363.1
17.5°	2204.2	2202.1	2249.9	2310.2	2408.0	2430.8	2373.6	2195.9	1880.8	1860.0	1479.5
20°	2166.7	2196.9	2230.2	2311.3	2417.3	2509.8	2526.5	2377.8	2043.0	2026.4	1611.5
22.5°	2341.4	2312.3	2346.6	2377.8	2459.9	2600.3	2646.1	2537.9	2213.5	2150.1	1731.1
25°	2634.6	2614.9	2589.9	2544.2	2578.5	2639.8	2709.5	2656.4	2359.1	2288.4	1846.5
27.5°	2920.5	2921.6	2867.5	2767.7	2693.9	2706.4	2788.5	2760.4	2481.8	2450.6	1925.5
30°	3327.1	3302.1	3241.8	3106.6	2962.1	2843.6	2830.1	2857.1	2637.7	2577.4	2038.9
32.5°	3631.7	3636.9	3551.6	3357.2	3159.7	3063.0	2944.4	2955.9	2736.5	2691.8	2129.3
35°	3878.1	3871.9	3811.6	3650.4	3416.5	3300.0	3139.9	3074.4	2966.3	2895.6	2267.6
37.5°	4144.3	4093.3	3995.6	3813.6	3663.9	3502.8	3346.8	3199.2	3119.1	3033.9	2386.1
40°	4251.4	4251.4	4120.4	4037.2	3859.4	3737.7	3636.9	3363.4	3305.2	3288.6	2537.9
42.5°	4175.5	4222.2	4168.2	4073.6	4000.8	3846.9	3819.9	3534.0	3535.0	3501.7	2719.9
45°	4168.2	4103.7	4059.0	4082.9	4048.6	4040.3	4108.9	3770.0	3776.2	3772.1	2964.2
47.5°	3959.2	3930.1	3996.6	4036.1	4064.2	4193.1	4390.7	4051.7	4096.4	4065.2	3246.0
50°	3751.3	3746.1	3787.6	3931.1	4052.8	4264.9	4658.9	4486.3	4632.9	4630.8	3756.5
52.5°	3181.5	3236.6	3399.8	3703.4	4003.9	4362.6	4861.7	5041.5	5321.2	5397.1	4179.6
55°	2636.7	2607.6	2848.8	3289.6	3790.8	4401.1	5088.3	5375.3	5787.0	5842.1	4614.2
57.5°	2051.3	2105.4	2295.7	2718.8	3349.9	4210.8	5254.7	5704.9	6313.1	6355.7	5118.5
60°	1530.4	1537.7	1746.7	2087.7	2763.5	3781.4	5308.7	6042.8	6916.1	7037.8	5646.6
62.5°	962.8	1006.4	1165.5	1501.3	2080.5	3180.5	5066.5	6247.6	7548.3	7580.5	6179.0
65°	518.8	546.9	666.5	877.5	1453.5	2405.9	4423.9	6124.9	7845.6	8036.9	6416.0
67°	383.7	388.8	444.0	560.4	972.1	1811.2	3688.9	5681.0	7980.8	8120.1	6425.4
67.5°	359.7	367.0	410.7	503.2	861.9	1667.7	3496.5	5522.9	7920.5	8070.2	6352.6
70°	307.8	309.8	320.2	346.2	483.5	1003.3	2380.9	4525.8	7341.4	7484.8	5842.1
72.5°	273.4	275.5	279.7	284.9	327.5	580.2	1448.3	3483.0	6380.7	6609.4	5040.5
75°	240.2	247.4	249.5	245.4	278.6	377.4	770.4	2559.8	5204.8	5316.0	3919.7
77.5°	203.8	206.9	211.1	215.2	248.5	281.8	370.1	1728.0	3572.4	3504.8	2120.0
80°	171.6	172.6	175.7	178.8	215.2	215.2	210.0	933.7	1560.6	1492.0	716.4
82.5°	122.7	130.0	137.2	145.6	178.8	144.5	137.2	415.9	493.9	469.9	242.3
85°	47.8	58.2	90.5	99.8	113.3	78.0	91.5	179.9	205.9	203.8	90.5
87.5°	8.3	9.4	25.0	38.5	41.6	27.0	43.7	64.5	76.9	83.2	33.3
90°	0.0	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°	180°
0°	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7	933.7
2.5°	942.0	909.7	871.3	832.8	807.9	768.3	765.2	741.3	738.2	729.9	734.0
5°	949.3	910.8	832.8	771.5	743.4	720.5	725.7	715.3	712.2	707.0	698.7
7.5°	1006.4	930.5	814.1	761.1	740.3	729.9	729.9	717.4	708.0	714.3	720.5
10°	1043.9	939.9	828.6	775.6	759.0	736.1	744.4	728.8	734.0	721.6	721.6
12.5°	1104.2	992.9	858.8	797.5	770.4	749.6	757.9	740.3	736.1	737.2	734.0
15°	1185.3	1028.3	872.3	809.9	791.2	765.2	759.0	743.4	727.8	722.6	728.8
17.5°	1261.2	1071.9	881.7	817.2	787.1	757.9	750.7	730.9	725.7	710.1	697.6
20°	1351.6	1123.9	894.1	823.4	771.5	742.3	723.6	703.9	686.2	676.8	681.0
22.5°	1411.9	1151.0	900.4	811.0	748.6	721.6	682.0	668.5	643.6	633.2	624.9
25°	1510.7	1184.2	884.8	776.7	708.0	664.4	629.0	610.3	592.6	579.1	575.0
27.5°	1535.6	1209.2	848.4	718.4	643.6	597.8	567.7	544.8	533.4	512.6	508.4
30°	1608.4	1184.2	794.3	647.7	582.2	535.4	505.3	488.7	461.6	456.4	445.0
32.5°	1655.2	1191.5	725.7	579.1	511.5	469.9	450.2	433.6	426.3	401.3	395.1
35°	1733.2	1166.5	656.1	515.7	453.3	421.1	404.4	399.2	375.3	363.9	353.5
37.5°	1783.1	1152.0	586.4	444.0	389.9	376.4	381.6	359.7	330.6	308.8	301.5
40°	1870.4	1146.8	507.4	384.7	346.2	343.1	359.7	318.1	265.1	246.4	236.0
42.5°	1996.2	1111.4	446.0	331.7	311.9	325.4	328.5	265.1	235.0	219.4	212.1
45°	2116.8	1118.7	385.7	274.5	271.4	291.1	283.8	224.6	206.9	195.5	201.7
47.5°	2348.7	1155.1	326.5	228.7	244.3	263.0	220.4	200.7	184.0	175.7	176.7
50°	2707.4	1190.5	274.5	209.0	230.8	238.1	189.2	181.9	180.9	164.3	163.2
52.5°	2922.6	1176.9	265.1	233.9	247.4	238.1	205.9	200.7	192.3	185.1	176.7
55°	3264.7	1216.5	284.9	273.4	280.7	228.7	230.8	228.7	222.5	203.8	209.0
57.5°	3537.1	1242.4	310.9	305.7	301.5	238.1	241.2	242.3	238.1	229.8	237.1
60°	3911.4	1294.4	337.9	338.9	340.0	258.9	264.1	270.3	269.3	266.2	268.2
62.5°	4141.1	1270.5	368.1	384.7	379.5	301.5	300.5	304.6	304.6	309.8	313.0
65°	4106.8	1182.1	383.7	425.2	398.2	332.7	332.7	334.8	335.8	346.2	347.3
67°	3901.0	1024.1	375.3	431.5	398.2	345.2	345.2	347.3	340.0	367.0	358.7
67.5°	3805.3	977.3	368.1	426.3	395.1	344.1	344.1	345.2	338.9	364.9	356.6
70°	3309.4	725.7	317.1	377.4	366.0	334.8	334.8	328.5	323.3	357.7	350.4
72.5°	2824.9	527.1	254.7	321.3	330.6	322.3	324.4	308.8	294.2	318.1	311.9
75°	2163.6	387.8	198.6	247.4	279.7	301.5	315.0	275.5	256.8	263.0	251.6
77.5°	1207.1	252.6	157.0	183.0	213.1	280.7	302.6	248.5	210.0	202.7	202.7
80°	409.6	147.6	115.4	136.2	146.6	248.5	282.8	201.7	165.3	158.0	152.8
82.5°	154.9	90.5	79.0	93.6	93.6	196.5	230.8	154.9	124.8	161.2	164.3
85°	70.7	54.1	52.0	54.1	54.1	120.6	163.2	100.9	112.3	96.7	85.3
87.5°	28.1	26.0	23.9	22.9	18.7	20.8	56.1	27.0	50.9	13.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)