

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: P478680

Luminaire Tested: **IFLD-S-SA6C-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478680
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

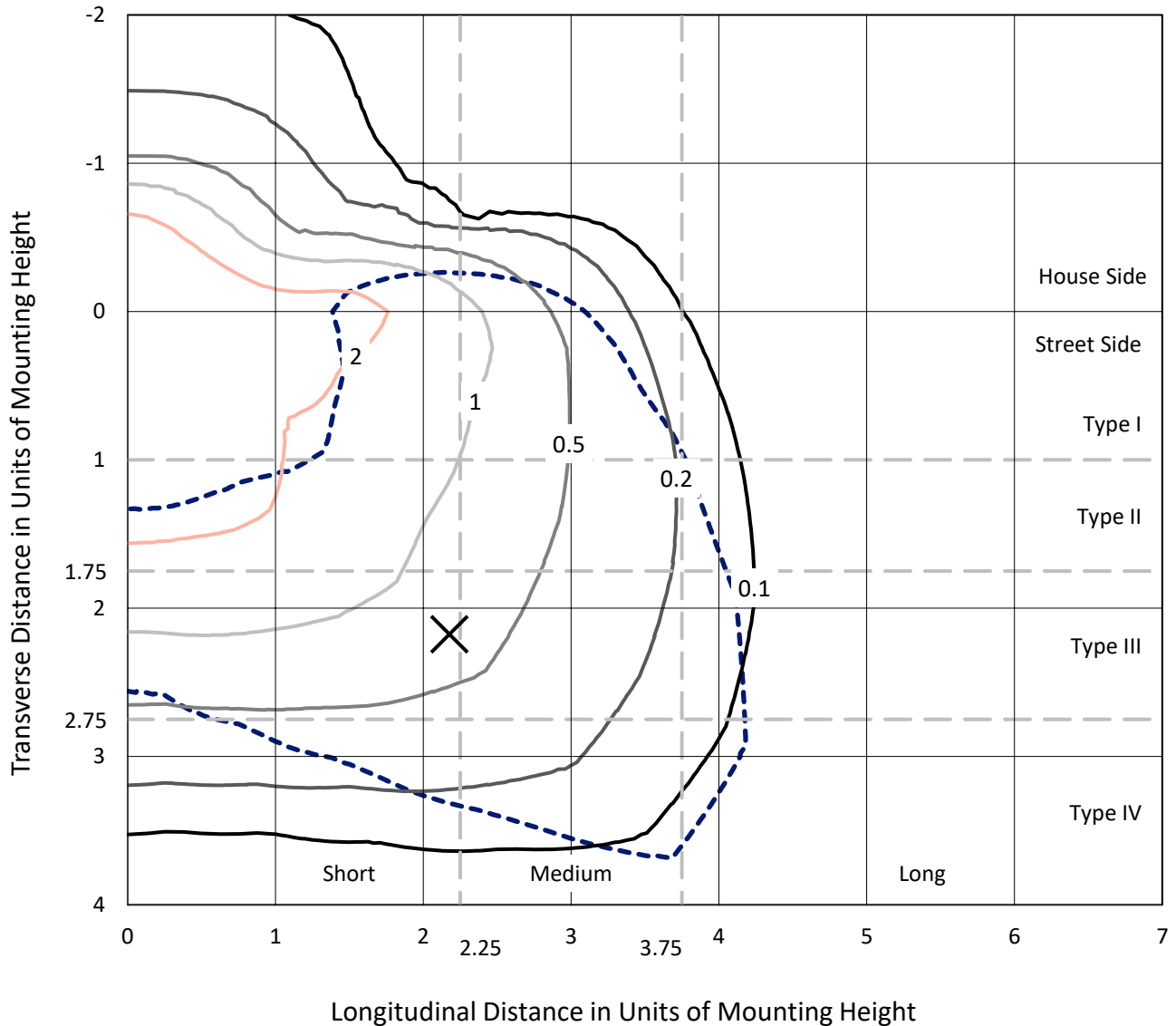
Lumens per Lamp: N/A
Luminaire Lumens: 30874 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

REPORT NUMBER: P478680
 CATALOG NUMBER: IFLD-S-SA6C-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

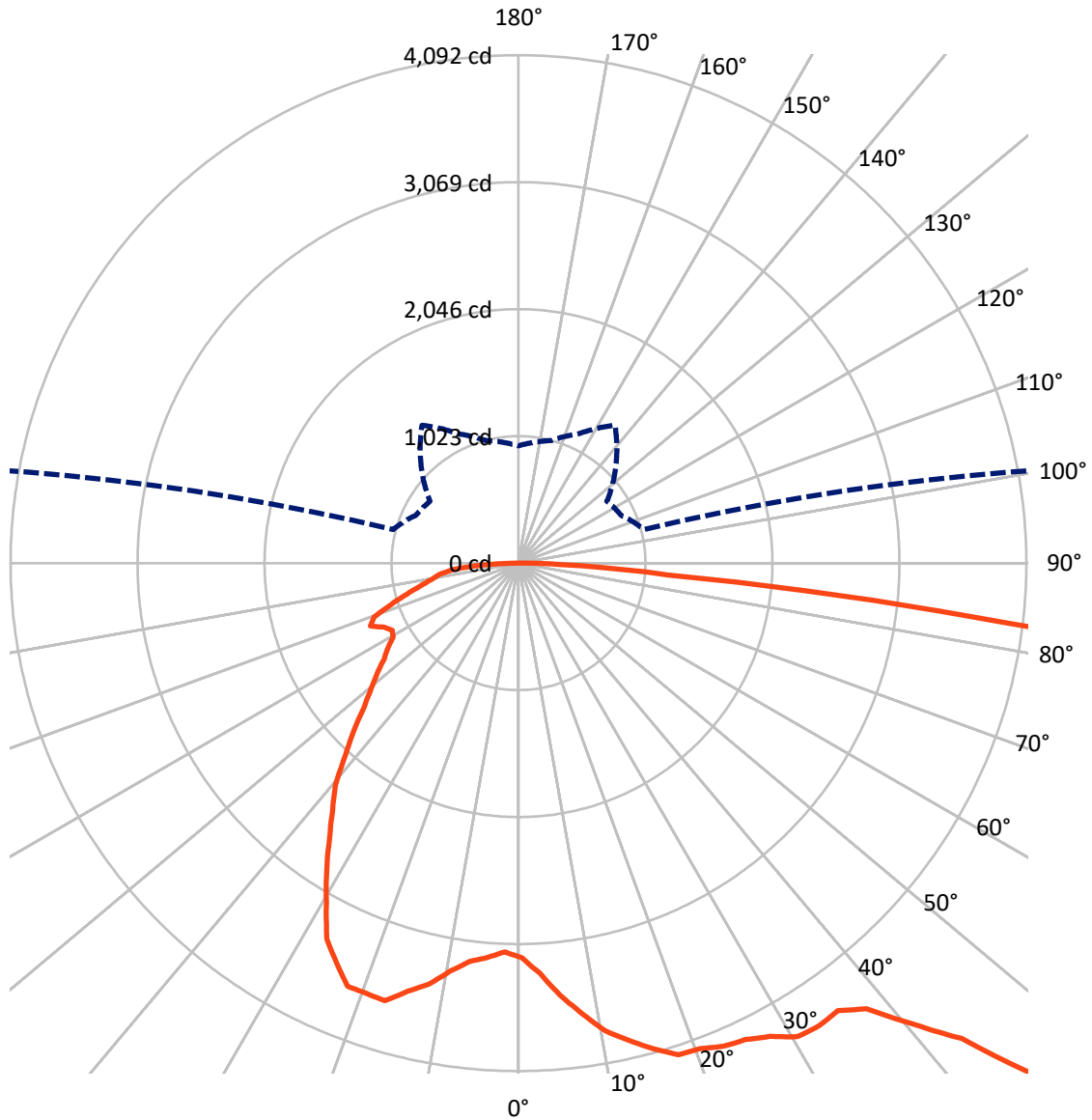
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P478680
CATALOG NUMBER: IFLD-S-SA6C-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478680

CATALOG NUMBER: IFLD-S-SA6C-827-U-T4W

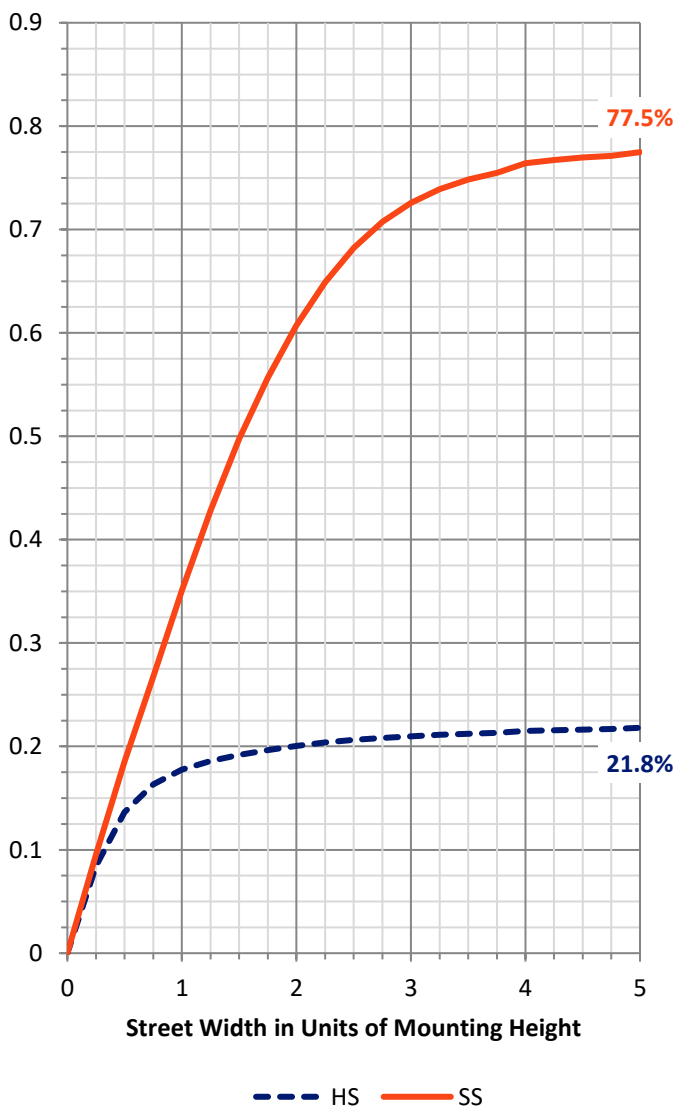
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6872.7	0.0	6872.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24001.3	0.0	24001.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	30874.0	0.0	30874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	1.1
10°-20°	1082.5	3.5
20°-30°	1828.0	5.9
30°-40°	2529.6	8.2
40°-50°	3618.3	11.7
50°-60°	5836.0	18.9
60°-70°	8607.2	27.9
70°-80°	6250.3	20.2
80°-90°	796.8	2.6
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°	30874.0	100.0
0°-180°	30874.0	100.0

Coefficient of Utilization



REPORT NUMBER: P478680

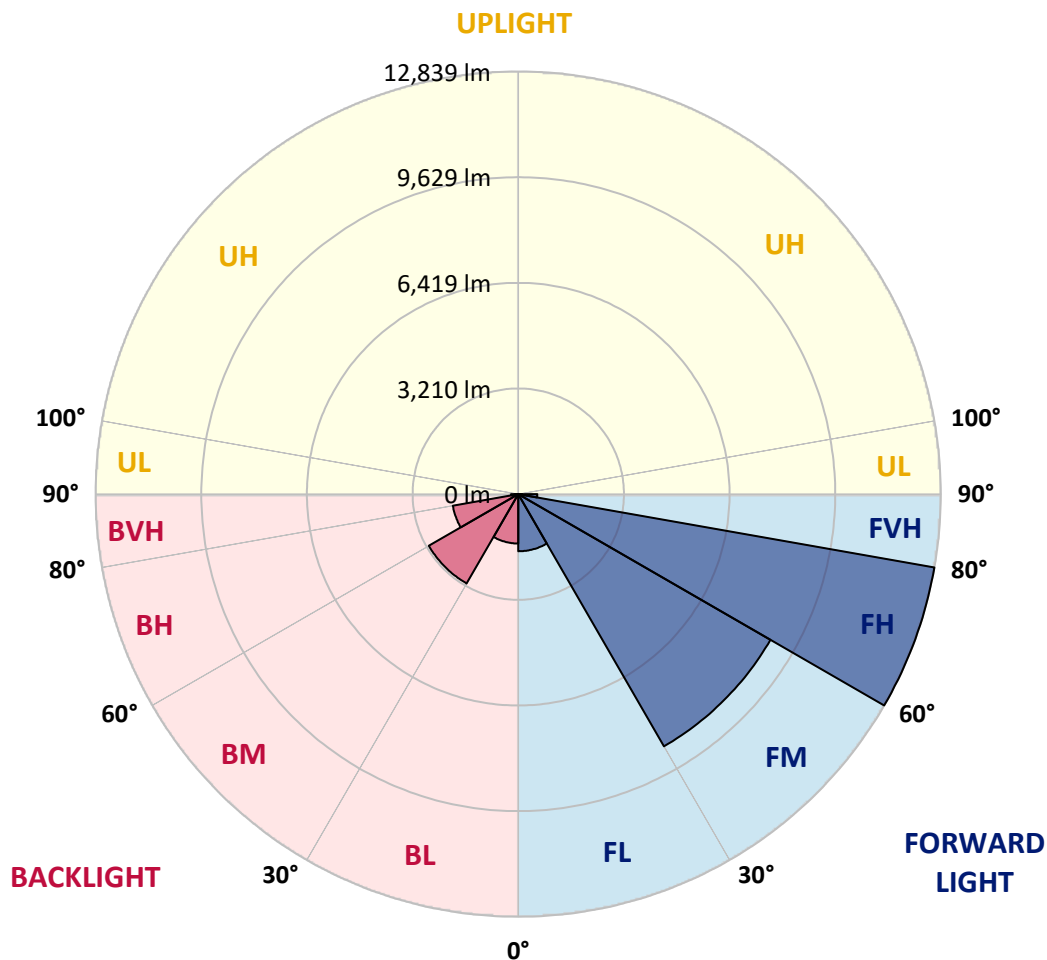
CATALOG NUMBER: IFLD-S-SA6C-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.1	5.6			
FM (30°-60°)	8847.4	28.7			
FH (60°-80°)	12838.8	41.6			G5
FVH (80°-90°)	579.9	1.9			G4/750
BL (0°-30°)	1500.6	4.9	B3/2500		
BM (30°-60°)	3136.5	10.2	B3/5000		
BH (60°-80°)	2018.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	216.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P478680

CATALOG NUMBER: IFLD-S-SA6C-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5
2.5°	3349.3	3369.2	3349.3	3345.9	3312.6	3289.3	3309.3	3279.3	3246.0	3232.7	3202.8
5°	3655.6	3658.9	3622.3	3625.6	3555.7	3482.4	3495.7	3405.9	3309.3	3272.7	3212.8
7.5°	3968.5	3931.9	3878.6	3862.0	3752.1	3672.2	3662.2	3582.3	3432.5	3349.3	3266.0
10°	4171.6	4184.9	4098.3	4025.1	3931.9	3835.3	3832.0	3682.2	3595.6	3472.4	3365.9
12.5°	4351.4	4354.7	4281.5	4164.9	4048.4	3928.6	3945.2	3878.6	3732.1	3615.6	3509.1
15°	4491.2	4471.2	4391.3	4284.8	4161.6	4068.4	4058.4	4001.8	3878.6	3782.1	3605.6
17.5°	4531.2	4521.2	4441.3	4328.1	4208.2	4138.3	4164.9	4071.7	4021.8	3935.2	3765.4
20°	4454.6	4431.3	4418.0	4291.4	4204.9	4198.2	4174.9	4194.9	4111.7	4031.8	3908.6
22.5°	4314.7	4304.8	4298.1	4198.2	4158.3	4188.2	4228.2	4258.2	4244.8	4168.3	4028.4
25°	4171.6	4218.2	4174.9	4128.3	4184.9	4261.5	4251.5	4348.0	4348.0	4324.7	4208.2
27.5°	4271.5	4241.5	4208.2	4184.9	4204.9	4324.7	4318.1	4434.6	4477.9	4434.6	4301.4
30°	4521.2	4491.2	4394.7	4291.4	4264.8	4394.7	4427.9	4531.2	4551.1	4444.6	4331.4
32.5°	4990.6	4973.9	4820.8	4517.8	4354.7	4427.9	4444.6	4561.1	4544.5	4477.9	4431.3
35°	5686.4	5629.8	5416.7	4904.0	4544.5	4471.2	4427.9	4521.2	4584.4	4551.1	4507.8
37.5°	6448.8	6385.6	6122.5	5473.3	4887.4	4587.7	4554.5	4631.0	4704.3	4687.6	4597.7
40°	7177.9	7177.9	6941.6	6185.8	5396.8	4870.7	4877.4	4790.8	4857.4	4827.5	4844.1
42.5°	7897.1	7870.4	7773.9	7021.5	5942.8	5343.5	5237.0	5020.6	5140.4	5130.4	5153.7
45°	8626.2	8606.2	8579.6	7800.5	6725.1	5982.7	5926.1	5536.6	5646.5	5599.9	5699.7
47.5°	9208.8	9232.1	9232.1	8669.4	7560.8	6835.0	6751.8	6135.9	6345.6	6368.9	6392.2
50°	9704.9	9714.8	9704.9	9498.4	8493.0	7810.5	7640.7	7014.8	7224.5	7407.7	7620.7
52.5°	10390.7	10404.0	10357.4	10277.5	9758.1	8835.9	8646.1	7950.3	8379.8	8572.9	8955.8
55°	11236.3	11136.4	11049.9	11109.8	10973.3	9964.5	9768.1	8915.8	9561.7	9818.1	10583.8
57.5°	11392.8	11479.4	11699.1	12175.2	12371.6	11063.2	10950.0	10101.0	10896.7	11119.8	12398.2
60°	11945.5	11802.3	12341.6	13373.7	13593.5	12494.8	12378.3	11399.5	12225.1	12458.2	14072.9
62.5°	12308.4	12301.7	13100.7	14325.9	14825.3	13979.7	13743.3	13087.4	13660.0	13886.4	15897.3
65°	12201.8	12298.4	13716.6	14885.2	15854.0	15667.6	15531.1	14539.0	15294.7	15274.7	17085.9
67.5°	11229.7	11502.7	13327.1	15288.1	17385.5	17725.1	17681.8	16579.8	16623.1	16200.3	17615.2
70°	9881.3	9788.1	11679.1	14868.6	18151.2	20165.5	20155.5	18098.0	17818.3	16403.4	16097.1
72°	7590.8	7487.6	9042.3	12767.8	17748.4	21140.9	21440.6	19150.0	17805.0	15561.1	13297.2
72.5°	6891.6	6801.7	8349.8	12018.7	17302.3	21394.0	21254.1	19190.0	17665.2	15164.9	12421.5
75°	3172.8	3069.6	4171.6	7357.7	13496.9	18956.9	19433.0	17958.1	15427.9	12072.0	7440.9
77.5°	945.5	915.6	1341.7	2969.7	7843.8	13966.3	14149.4	13550.2	10770.2	6612.0	2760.0
80°	526.0	529.4	692.5	1112.0	3449.1	8073.5	8732.7	8369.8	5283.6	2184.0	918.9
82.5°	293.0	309.6	432.8	659.2	1584.7	3705.5	3988.5	3845.3	1911.0	1025.4	502.7
85°	153.1	159.8	226.4	352.9	898.9	1171.9	1205.2	1291.8	992.1	699.1	269.7
87.5°	59.9	59.9	83.2	146.5	332.9	362.9	326.3	396.2	569.3	452.8	133.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478680
 CATALOG NUMBER: IFLD-S-SA6C-827-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5	3179.5
2.5°	3229.4	3202.8	3199.4	3156.2	3169.5	3132.9	3136.2	3129.5	3132.9	3126.2	3109.5
5°	3212.8	3192.8	3136.2	3172.8	3139.5	3186.1	3222.7	3209.4	3219.4	3216.1	3219.4
7.5°	3236.1	3209.4	3202.8	3182.8	3212.8	3232.7	3262.7	3345.9	3339.3	3349.3	3369.2
10°	3306.0	3276.0	3256.0	3286.0	3269.4	3332.6	3365.9	3409.2	3485.8	3489.1	3449.1
12.5°	3442.5	3422.5	3382.6	3389.2	3445.8	3465.8	3485.8	3512.4	3562.3	3552.3	3589.0
15°	3599.0	3555.7	3532.4	3525.7	3539.0	3562.3	3559.0	3585.6	3612.3	3635.6	3625.6
17.5°	3712.1	3655.6	3662.2	3695.5	3692.2	3685.5	3642.2	3628.9	3642.2	3655.6	3648.9
20°	3828.7	3835.3	3785.4	3755.4	3742.1	3675.5	3642.2	3602.3	3562.3	3582.3	3612.3
22.5°	3975.2	3945.2	3872.0	3782.1	3715.5	3675.5	3572.3	3502.4	3502.4	3522.4	3512.4
25°	4141.6	4078.4	3951.9	3788.7	3705.5	3535.7	3462.5	3452.5	3425.8	3455.8	3469.1
27.5°	4271.5	4214.9	4041.7	3765.4	3535.7	3399.2	3355.9	3342.6	3385.9	3389.2	3442.5
30°	4324.7	4308.1	4055.1	3705.5	3362.6	3142.8	3116.2	3176.1	3222.7	3292.7	3296.0
32.5°	4394.7	4401.3	4075.0	3565.7	3136.2	2916.5	2876.5	2949.7	3082.9	3139.5	3182.8
35°	4511.2	4544.5	4058.4	3392.5	2896.5	2686.7	2680.1	2700.0	2829.9	2929.8	2986.4
37.5°	4714.3	4707.6	4055.1	3186.1	2706.7	2487.0	2433.7	2440.4	2526.9	2610.2	2600.2
40°	4987.3	4960.6	4045.1	2916.5	2460.3	2317.2	2227.3	2194.0	2187.3	2164.0	2170.7
42.5°	5360.1	5306.9	4041.7	2643.4	2237.3	2084.1	2020.9	1934.3	1871.1	1751.2	1757.9
45°	5879.5	5786.3	3955.2	2387.1	2017.5	1891.0	1794.5	1731.2	1594.7	1444.9	1444.9
47.5°	6681.9	6378.9	3958.5	2104.1	1804.5	1701.3	1634.7	1524.8	1378.3	1258.5	1245.2
50°	7863.8	7171.3	3845.3	1881.0	1631.3	1561.4	1491.5	1365.0	1225.2	1141.9	1151.9
52.5°	9388.6	8353.2	3842.0	1681.3	1494.8	1444.9	1368.3	1255.1	1151.9	1098.7	1078.7
55°	11206.4	9917.9	3961.8	1518.2	1355.0	1328.4	1295.1	1201.9	1102.0	1055.4	1052.1
57.5°	13067.4	11446.1	4154.9	1401.6	1235.2	1255.1	1231.8	1158.6	1078.7	1025.4	1018.8
60°	14722.1	12657.9	3765.4	1261.8	1128.6	1171.9	1205.2	1141.9	1098.7	1095.3	1072.0
62.5°	15970.6	13177.3	2863.2	1155.3	1072.0	1151.9	1241.8	1281.8	1261.8	1288.4	1291.8
65°	16426.7	12864.3	1970.9	1098.7	1028.7	1198.5	1398.3	1385.0	1268.5	1218.5	1245.2
67.5°	15787.5	11595.9	1461.6	1032.1	998.8	1295.1	1488.2	1321.7	1145.3	1138.6	1118.6
70°	13576.8	9828.0	1191.9	962.2	948.8	1241.8	1448.2	1225.2	1078.7	1035.4	1015.4
72°	10816.8	7654.0	1045.4	912.2	868.9	1108.7	1355.0	1148.6	1022.1	968.8	945.5
72.5°	9874.6	7094.7	1025.4	888.9	852.3	1078.7	1308.4	1125.3	1008.8	962.2	925.5
75°	5416.7	3632.2	902.2	815.7	719.1	932.2	1211.9	1055.4	952.2	885.6	878.9
77.5°	2014.2	1408.3	779.1	722.5	622.6	805.7	1102.0	1002.1	865.6	782.4	765.7
80°	772.4	742.4	635.9	609.3	522.7	705.8	1015.4	898.9	735.8	652.5	625.9
82.5°	469.4	432.8	482.7	476.1	399.5	642.6	955.5	842.3	652.5	529.4	512.7
85°	256.4	256.4	336.3	322.9	279.7	512.7	722.5	559.3	412.8	339.6	346.2
87.5°	113.2	133.2	179.8	169.8	153.1	289.6	352.9	296.3	206.4	139.8	149.8
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)