

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: P480667

Luminaire Tested: **IFLD-S-SA6A-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480667
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

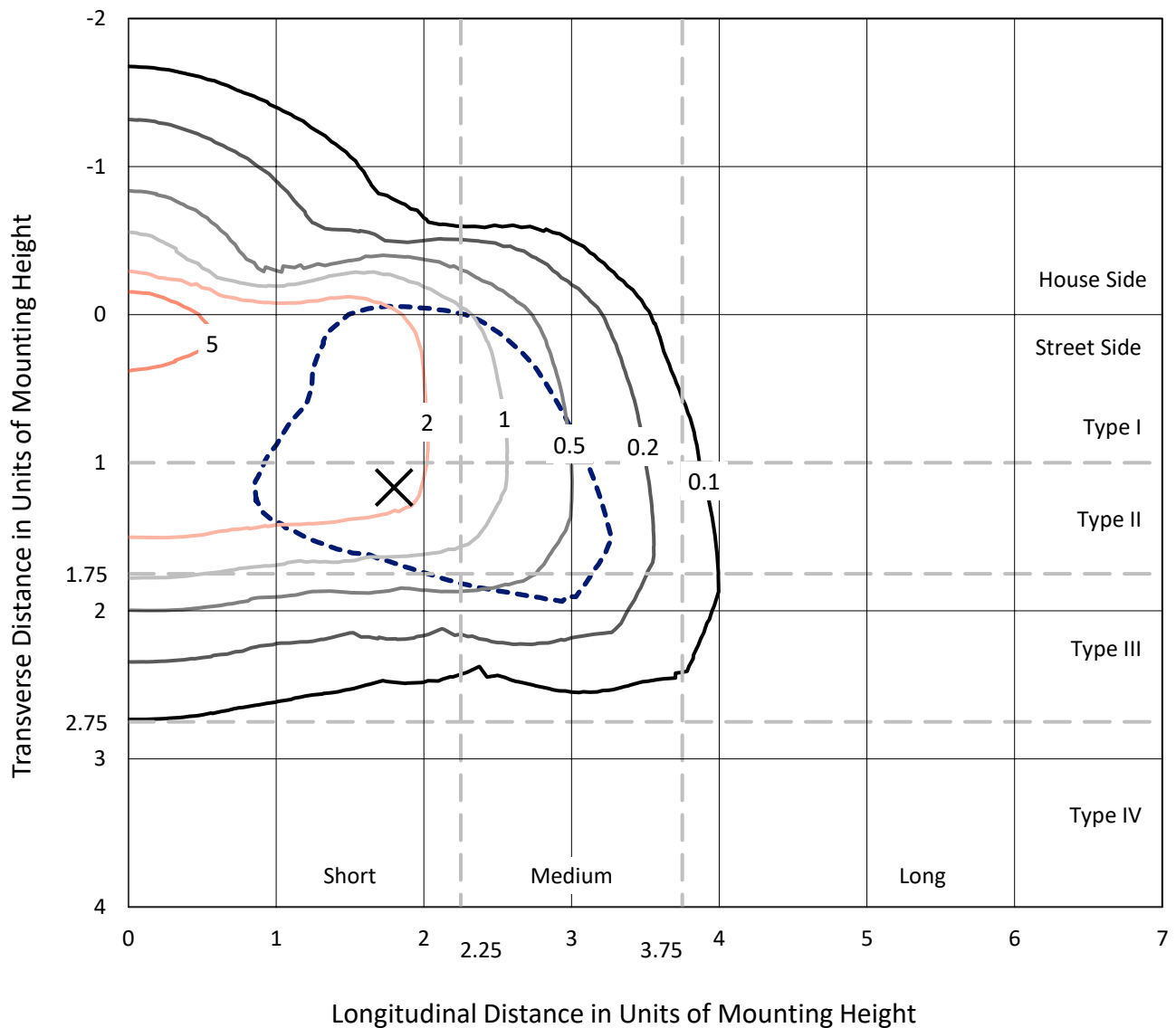
Lumens per Lamp: N/A
Luminaire Lumens: 21161.5 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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: P480667
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

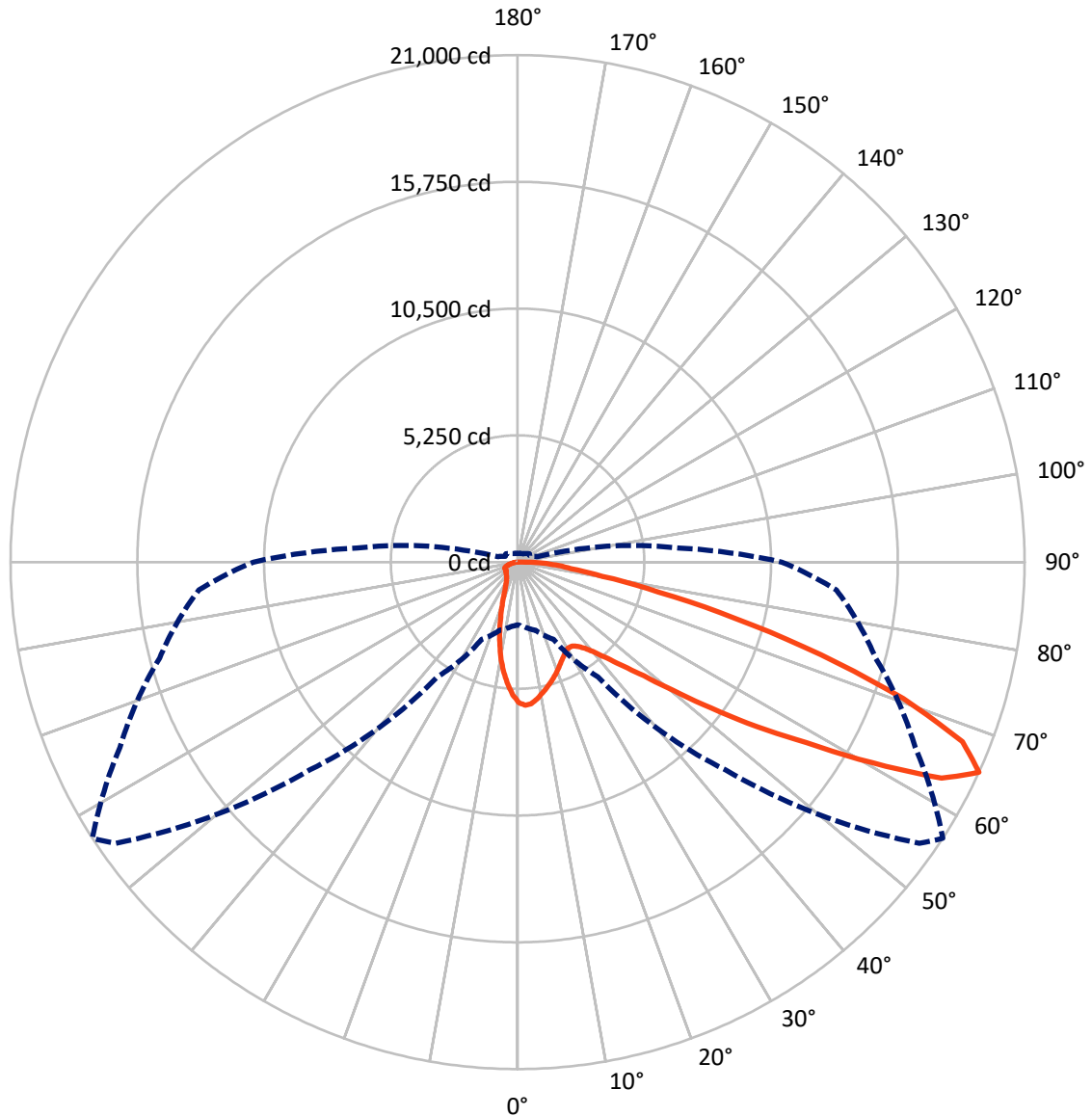
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

REPORT NUMBER: P480667
CATALOG NUMBER: IFLD-S-SA6A-830-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480667
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SL3

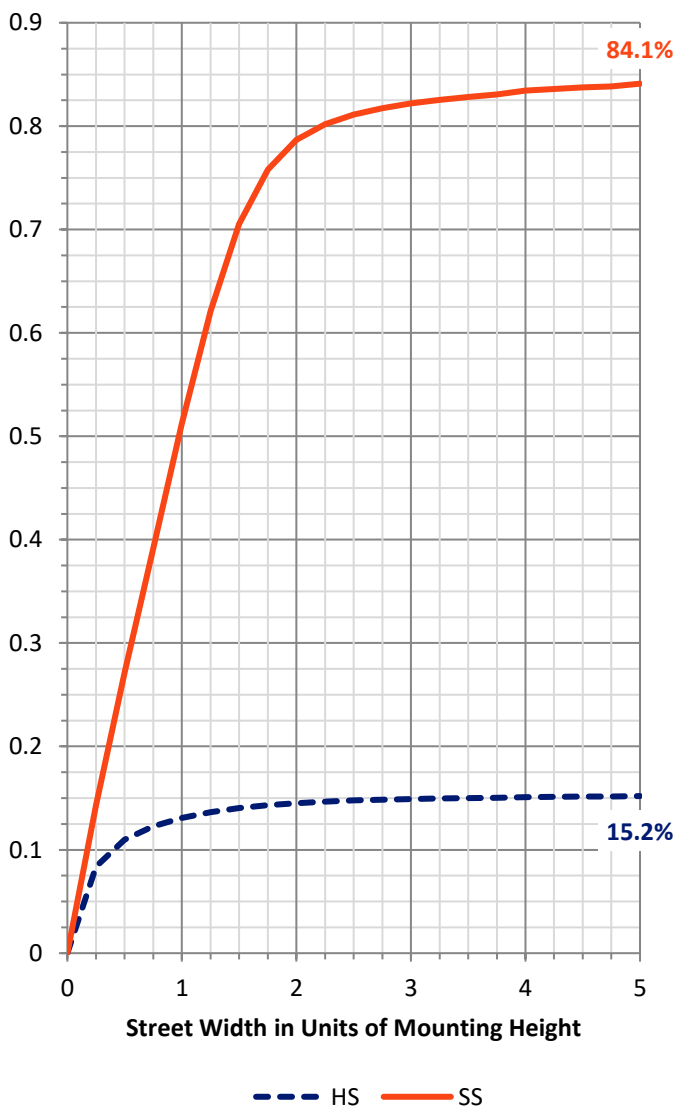
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3245.3	0.0	3245.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17916.2	0.0	17916.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	21161.5	0.0	21161.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	2.3
10°-20°	1048.8	5.0
20°-30°	1356.0	6.4
30°-40°	1824.7	8.6
40°-50°	2909.5	13.7
50°-60°	5138.9	24.3
60°-70°	5653.5	26.7
70°-80°	2364.9	11.2
80°-90°	378.0	1.8
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°	21161.5	100.0
0°-180°	21161.5	100.0

Coefficient of Utilization

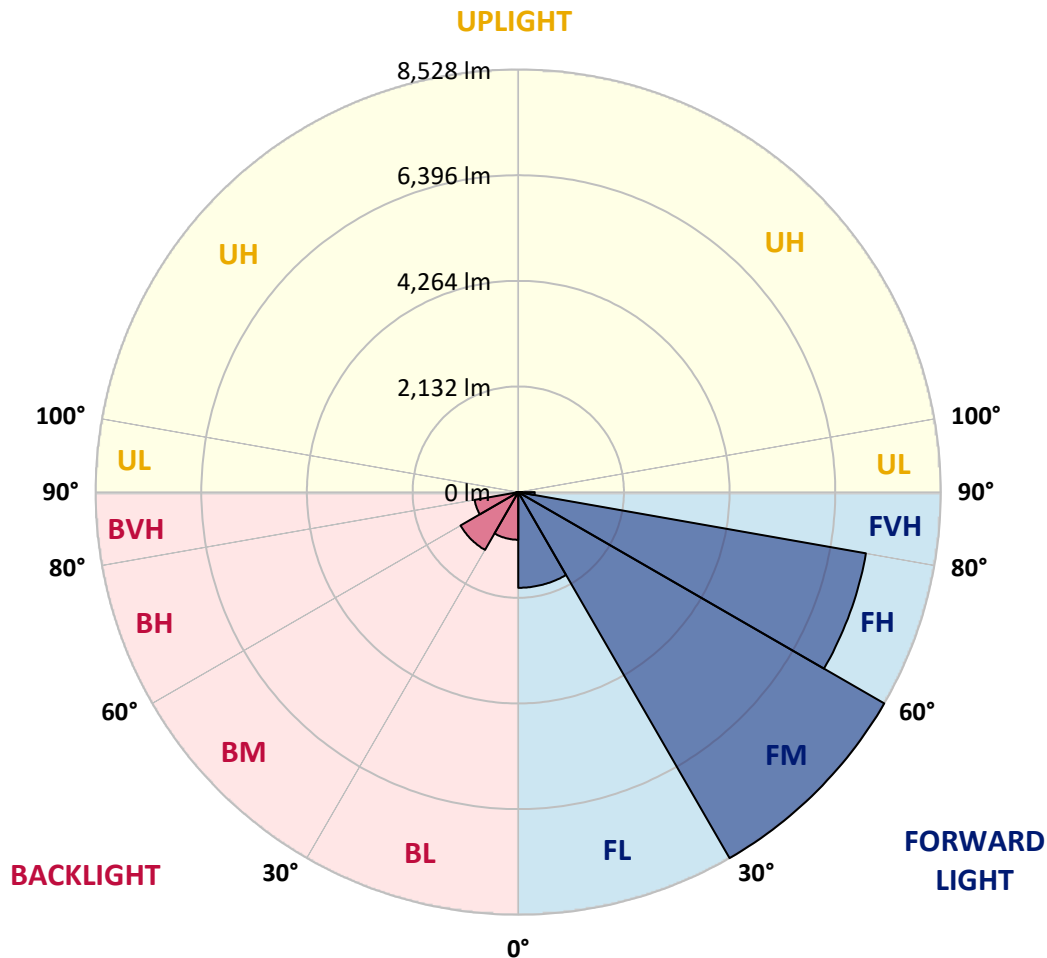


REPORT NUMBER: P480667
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.9	9.1			
FM (30°-60°)	8528.1	40.3			
FH (60°-80°)	7123.6	33.7			G3/7500
FVH (80°-90°)	333.6	1.6			G3/500
BL (0°-30°)	961.1	4.5	B2/1000		
BM (30°-60°)	1345.0	6.4	B2/2500		
BH (60°-80°)	894.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	44.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





REPORT NUMBER: P480667

CATALOG NUMBER: IFLD-S-SA6A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1
2.5°	5976.3	5985.8	5985.8	6004.8	5940.6	5971.5	5966.7	5938.2	5947.7	5897.7	5847.7
5°	5807.2	5800.1	5838.2	5842.9	5892.9	5907.2	5919.1	5900.1	5904.8	5795.3	5747.7
7.5°	5373.9	5371.5	5435.8	5490.5	5595.3	5692.9	5757.2	5738.2	5764.4	5695.3	5583.4
10°	4859.6	4914.3	4981.0	5035.8	5228.6	5352.4	5519.1	5535.8	5635.8	5619.1	5416.7
12.5°	4473.9	4497.7	4547.7	4704.8	4881.0	5085.8	5323.9	5345.3	5442.9	5490.5	5314.4
15°	4157.2	4178.6	4242.9	4359.6	4557.2	4800.1	5102.4	5157.2	5352.4	5369.1	5181.0
17.5°	3926.2	3942.9	3985.8	4102.4	4264.3	4576.2	4862.0	4959.6	5216.7	5297.7	5042.9
20°	3835.8	3800.0	3823.9	3897.7	4059.6	4300.1	4669.1	4754.8	5083.4	5242.9	4912.0
22.5°	3795.3	3764.3	3778.6	3773.9	3902.4	4073.9	4462.0	4552.4	4957.2	5178.6	4795.3
25°	3826.2	3826.2	3812.0	3800.0	3814.3	3926.2	4238.1	4378.6	4788.2	5123.9	4676.2
27.5°	3992.9	3928.6	3935.8	3885.8	3871.5	3871.5	4138.1	4221.5	4733.4	5092.9	4578.6
30°	4100.1	4131.0	4133.4	4059.6	3985.8	3852.4	4045.3	4126.2	4688.2	5131.0	4521.5
32.5°	4373.9	4359.6	4319.1	4304.8	4195.3	4045.3	4090.5	4145.3	4662.0	5216.7	4538.2
35°	4647.7	4640.5	4642.9	4635.8	4521.5	4300.1	4212.0	4285.8	4709.6	5366.7	4595.3
37.5°	4931.0	4950.1	5031.0	5031.0	4909.6	4669.1	4552.4	4531.0	4883.4	5612.0	4731.0
40°	5214.4	5262.0	5364.4	5526.3	5354.8	5131.0	4942.9	4909.6	5092.9	5940.6	5057.2
42.5°	5485.8	5564.4	5766.7	6007.2	5950.1	5726.3	5476.3	5438.2	5523.9	6428.7	5512.0
45°	5833.4	5900.1	6219.1	6588.2	6666.7	6469.1	6176.3	6145.3	6140.6	7142.9	6138.2
47.5°	6362.0	6433.4	6752.5	7123.9	7366.8	7397.7	7069.1	7035.8	6921.5	8107.2	7054.8
50°	7023.9	7140.6	7409.6	7843.0	8195.3	8526.3	8433.4	8335.8	8112.0	9228.7	8216.8
52.5°	7507.2	7650.1	8014.4	8569.2	9190.6	9716.8	10050.1	10050.1	9535.8	10459.7	9614.4
55°	7635.8	7721.5	8181.1	8983.4	10047.7	11378.7	12076.3	12024.0	11231.1	11754.9	11240.6
57.5°	7123.9	7235.8	7793.0	8633.4	10497.7	12933.5	14088.3	14100.2	13083.5	13259.7	12845.4
60°	5714.4	5750.1	6407.2	7531.0	10064.4	14185.9	16835.9	16881.2	15190.7	14600.2	13662.1
62.5°	3950.0	4064.3	4559.6	5545.3	8338.2	14045.4	19486.0	19709.8	16878.8	15307.3	13790.6
65°	2600.0	2669.1	2933.4	3533.4	5804.8	12174.0	20309.8	21000.3	18169.3	15347.8	13252.5
67.5°	1885.7	1897.6	1976.2	2285.7	3488.1	8754.9	18902.6	19876.4	18652.6	15009.7	11990.6
70°	1523.8	1533.4	1561.9	1759.5	2252.4	5478.6	15416.9	16943.1	17202.6	13407.3	9657.3
72.5°	1238.1	1250.0	1285.7	1471.4	1857.2	3047.7	11274.0	13133.5	13993.0	9919.2	6419.1
75°	973.8	983.3	1069.1	1252.4	1745.3	2092.9	7478.7	9300.1	9416.8	5797.7	3004.8
77.5°	666.7	683.3	788.1	1061.9	1642.9	1831.0	4662.0	5957.2	5345.3	2269.1	1033.3
80°	423.8	447.6	509.5	804.8	1452.4	1747.6	2900.0	3557.2	2340.5	776.2	497.6
82.5°	250.0	273.8	335.7	521.4	1140.5	1621.4	2042.9	2226.2	1097.6	397.6	300.0
85°	138.1	154.8	202.4	314.3	669.1	1440.5	1635.7	1597.6	628.6	211.9	188.1
87.5°	45.2	52.4	73.8	126.2	276.2	678.6	981.0	921.4	326.2	97.6	73.8
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: P480667
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1	5819.1
2.5°	5814.4	5807.2	5700.1	5619.1	5481.0	5366.7	5321.5	5259.6	5257.2	5212.0	5200.1
5°	5673.9	5600.1	5435.8	5278.6	5033.4	4869.1	4719.1	4614.3	4571.5	4478.6	4457.2
7.5°	5492.9	5395.3	5142.9	4847.7	4559.6	4302.4	4069.1	3835.8	3704.8	3659.6	3609.6
10°	5304.8	5133.4	4759.6	4428.6	4026.2	3631.0	3264.3	2935.8	2757.2	2631.0	2576.2
12.5°	5154.8	4926.3	4450.1	3954.8	3423.9	2895.3	2469.1	2123.8	1921.5	1826.2	1783.4
15°	4985.8	4683.4	4112.0	3485.8	2823.8	2223.8	1807.2	1535.7	1454.8	1409.5	1402.4
17.5°	4807.2	4457.2	3745.3	3023.8	2238.1	1673.8	1404.8	1295.3	1259.5	1240.5	1231.0
20°	4640.5	4254.8	3369.1	2509.6	1752.4	1342.9	1216.7	1159.5	1157.2	1166.7	1164.3
22.5°	4404.8	3990.5	2997.7	2033.4	1400.0	1169.1	1088.1	1073.8	1088.1	1100.0	1104.8
25°	4271.5	3773.9	2583.4	1614.3	1157.2	1038.1	1011.9	1007.2	1028.6	1042.9	1040.5
27.5°	4133.4	3550.0	2197.6	1292.9	1014.3	945.2	940.5	945.2	966.7	988.1	985.7
30°	4026.2	3371.5	1835.7	1081.0	904.8	878.6	873.8	878.6	890.5	892.9	892.9
32.5°	3938.1	3159.6	1528.6	938.1	838.1	816.7	821.4	819.1	821.4	823.8	826.2
35°	3885.8	3033.4	1276.2	850.0	783.3	766.7	764.3	757.2	759.5	761.9	759.5
37.5°	3997.7	2971.5	1076.2	788.1	745.2	731.0	726.2	721.4	714.3	714.3	714.3
40°	4166.7	2938.1	954.8	747.6	716.7	700.0	685.7	681.0	681.0	683.3	685.7
42.5°	4502.4	2992.9	871.4	716.7	681.0	661.9	647.6	650.0	657.2	664.3	659.5
45°	4988.2	3159.6	833.3	692.9	659.5	633.3	623.8	621.4	628.6	640.5	650.0
47.5°	5623.9	3419.1	819.1	671.4	645.2	609.5	597.6	604.8	614.3	631.0	623.8
50°	6664.4	4002.4	831.0	652.4	623.8	597.6	583.3	576.2	583.3	595.2	600.0
52.5°	8023.9	5062.0	876.2	642.9	609.5	588.1	564.3	552.4	559.5	569.1	569.1
55°	9650.1	6509.6	1002.4	631.0	585.7	573.8	547.6	523.8	528.6	528.6	526.2
57.5°	11083.5	7602.5	1152.4	614.3	571.4	554.8	521.4	492.9	488.1	490.5	492.9
60°	11726.3	7893.0	1223.8	609.5	571.4	531.0	485.7	457.1	450.0	445.2	445.2
62.5°	11614.4	7390.6	1078.6	588.1	585.7	511.9	452.4	421.4	411.9	402.4	404.8
65°	10938.2	6673.9	850.0	559.5	588.1	500.0	419.1	388.1	371.4	359.5	357.1
67.5°	9702.5	5697.7	673.8	538.1	564.3	478.6	390.5	354.8	340.5	328.6	323.8
70°	7590.6	4466.7	585.7	509.5	507.1	426.2	357.1	326.2	304.8	290.5	290.5
72.5°	4921.5	2823.8	502.4	452.4	438.1	357.1	309.5	290.5	273.8	261.9	261.9
75°	2228.6	1311.9	404.8	378.6	357.1	285.7	261.9	252.4	238.1	226.2	226.2
77.5°	800.0	559.5	302.4	297.6	266.7	221.4	211.9	204.8	195.2	183.3	183.3
80°	447.6	354.8	226.2	216.7	185.7	164.3	152.4	152.4	147.6	140.5	138.1
82.5°	283.3	231.0	166.7	145.2	121.4	109.5	104.8	102.4	100.0	90.5	88.1
85°	178.6	157.1	109.5	85.7	71.4	54.8	52.4	50.0	45.2	40.5	40.5
87.5°	81.0	90.5	42.9	26.2	19.0	11.9	7.1	2.4	0.0	0.0	0.0
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)