

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: P253990

Luminaire Tested: **LXF.LXT-AF24-60-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-60-D-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6738.2 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

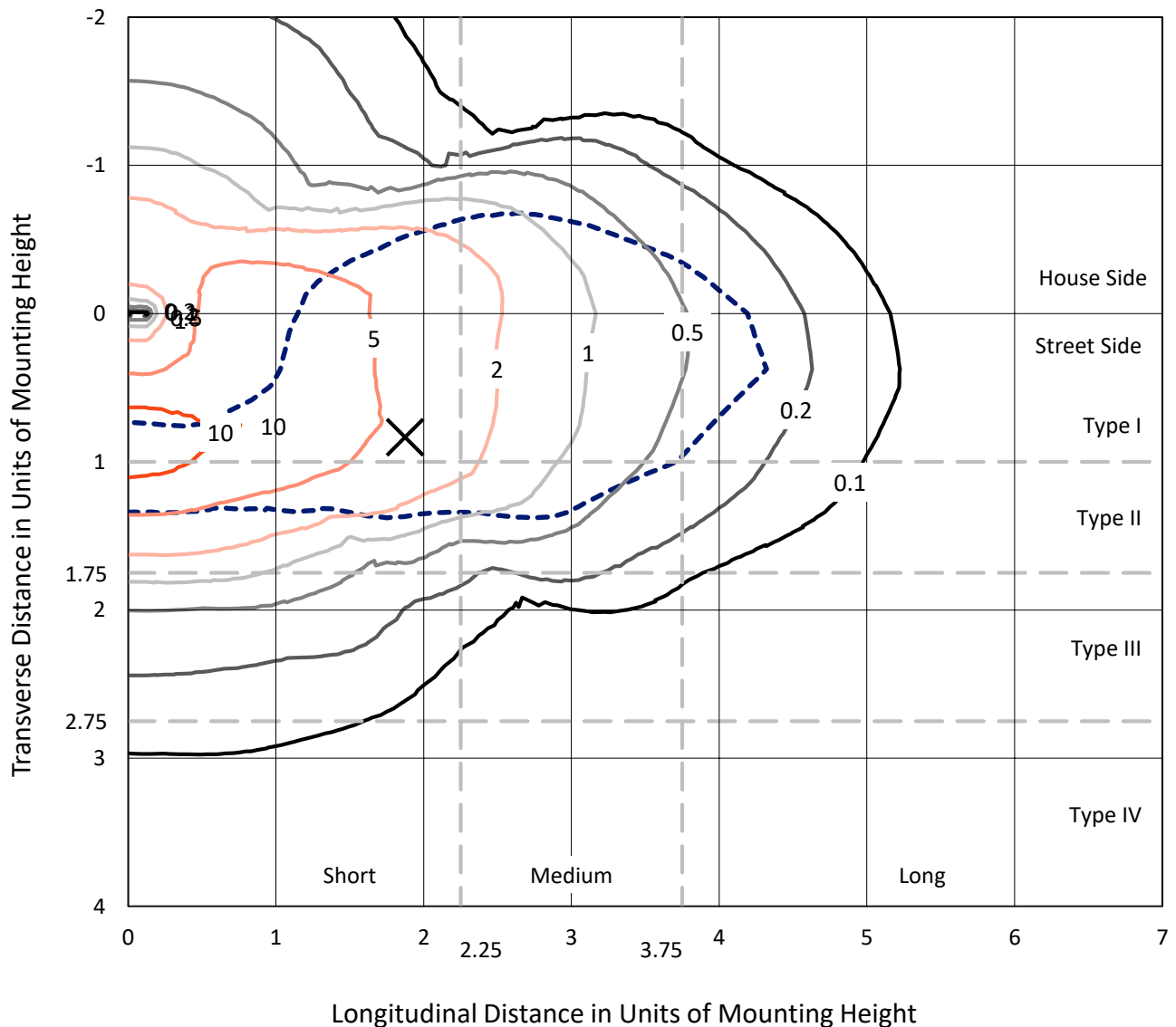
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

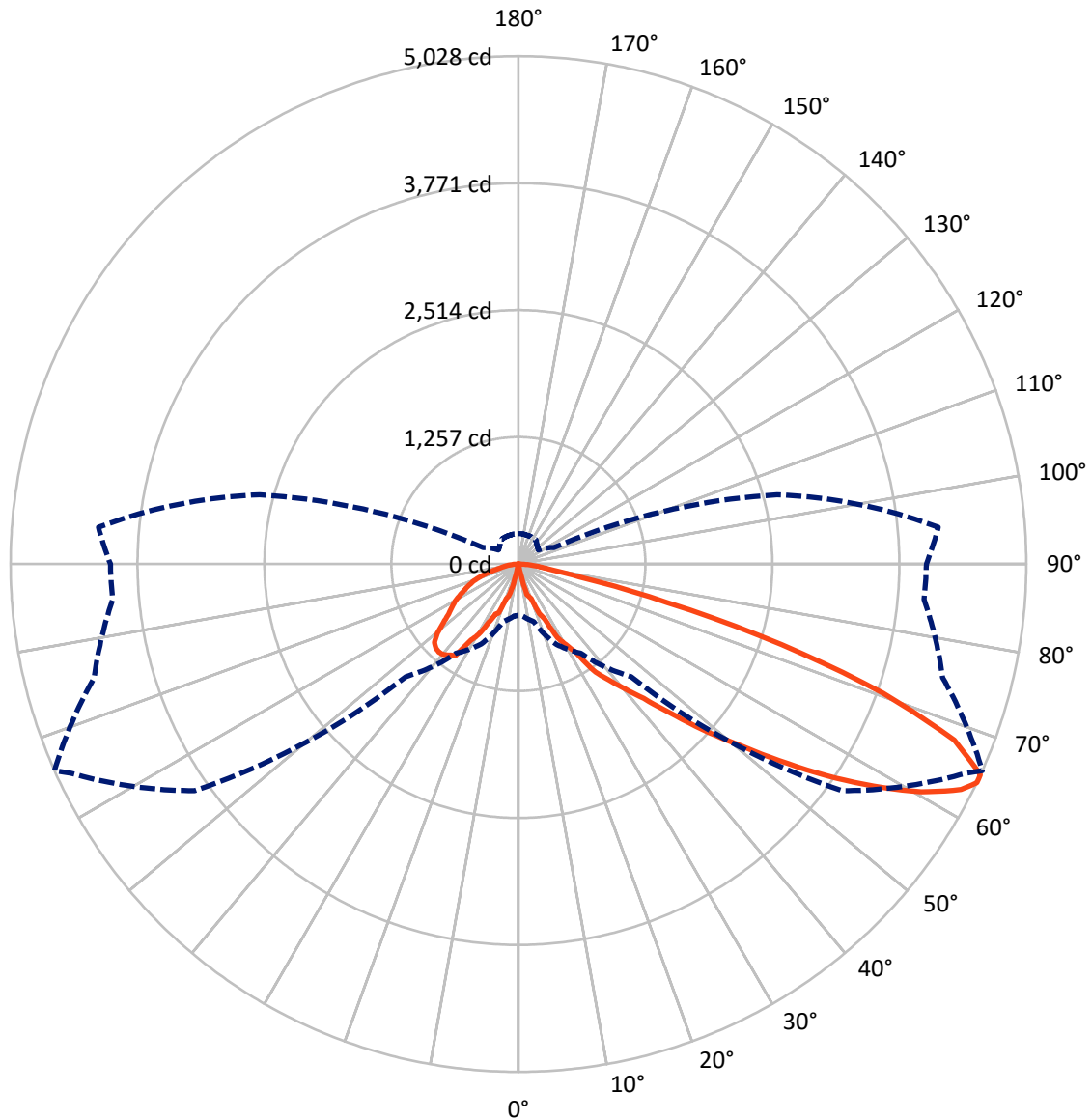
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - Horizontal Cone Through 64-Deg Vertical



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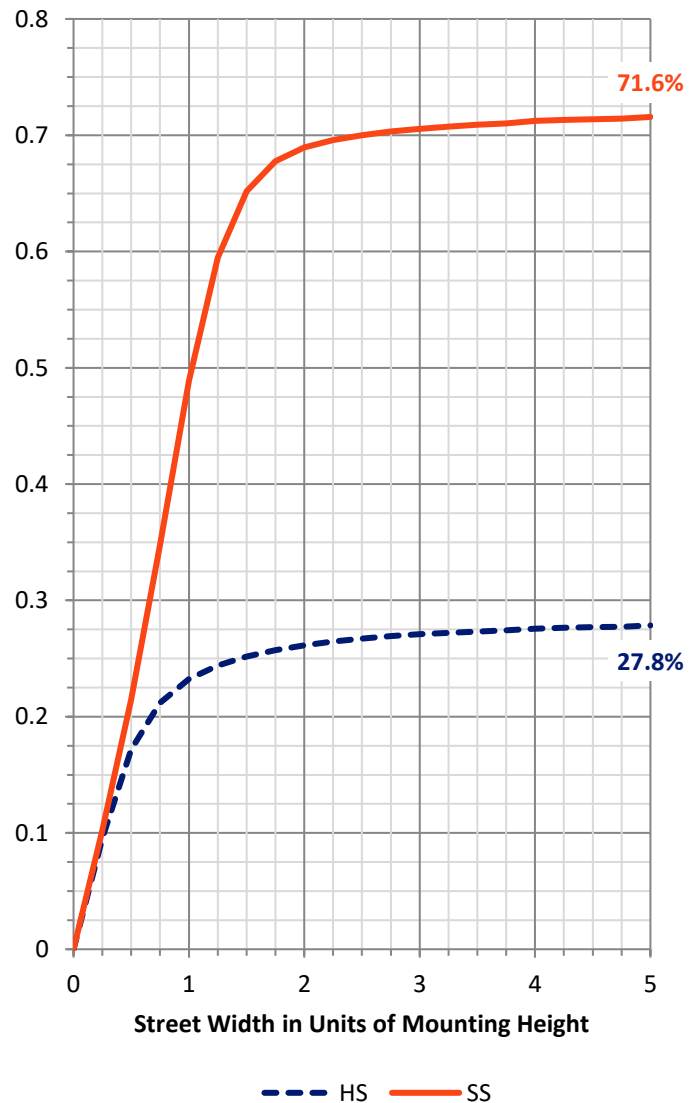
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1897.8	0.0	1897.8
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	4840.4	0.0	4840.4
	% Fixture	71.8	0.0	71.8
Total	Lumens	6738.2	0.0	6738.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.1	0.1
10°-20°	74.3	1.1
20°-30°	288.7	4.3
30°-40°	714.1	10.6
40°-50°	1343.2	19.9
50°-60°	1781.9	26.4
60°-70°	1604.3	23.8
70°-80°	819.2	12.2
80°-90°	107.4	1.6
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°	6738.2	100.0
0°-180°	6738.2	100.0



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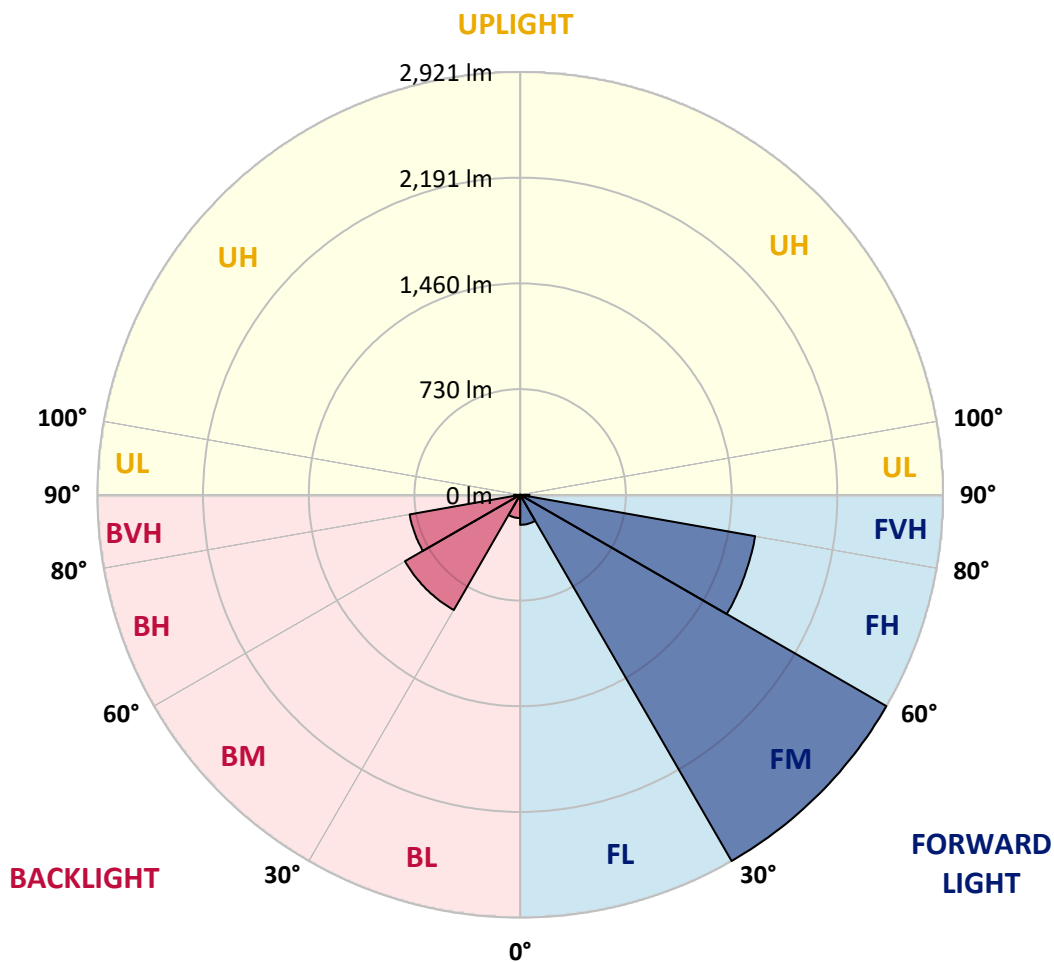
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.4	3.1			
FM	(30°-60°)	2920.7	43.3			
FH	(60°-80°)	1648.1	24.5			G1/1800
FVH	(80°-90°)	64.2	1.0			G1/100
BL	(0°-30°)	160.6	2.4	B1/500		
BM	(30°-60°)	918.5	13.6	B1/1000		
BH	(60°-80°)	775.4	11.5	B2/1000		G2/1000
BVH	(80°-90°)	43.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	3.1	2.3	3.1	3.8	3.8	3.1	2.3	0.7	0.7	0.0	0.0
5°	143.7	140.7	97.9	38.3	19.8	10.7	5.3	2.3	1.5	0.7	0.7
7.5°	149.9	149.9	149.9	151.4	148.3	143.7	24.4	5.3	4.6	1.5	0.7
10°	152.9	152.1	150.6	152.1	150.6	150.6	147.5	19.1	17.6	6.1	4.6
12.5°	287.4	285.9	276.7	178.9	156.7	156.7	157.5	128.5	129.2	41.3	106.3
15°	300.4	299.7	295.8	297.4	288.3	172.1	241.6	309.6	312.7	217.1	245.4
17.5°	334.1	328.8	316.5	312.7	308.8	352.4	337.9	337.2	337.2	253.1	266.8
20°	516.8	509.9	503.1	406.7	339.4	448.8	415.1	364.7	367.8	431.2	457.2
22.5°	594.0	588.7	578.0	555.8	579.5	484.0	507.6	531.3	534.4	563.4	519.9
25°	808.8	813.5	756.9	648.3	698.8	602.4	650.6	586.4	602.4	612.3	642.9
27.5°	1046.6	1030.5	1012.9	922.0	795.0	847.1	717.1	766.8	826.4	834.8	782.9
30°	1332.5	1310.4	1170.5	1160.5	1017.5	953.3	927.3	941.1	925.1	876.9	877.7
32.5°	1681.1	1668.1	1607.0	1418.9	1287.4	1093.2	1129.1	1031.3	1040.4	1139.9	1156.7
35°	2165.8	2143.7	1851.6	1750.7	1490.0	1402.9	1262.9	1303.4	1314.2	1295.1	1272.9
37.5°	2721.7	2701.7	2472.4	2061.9	1801.2	1600.9	1558.9	1487.0	1458.6	1462.5	1470.2
40°	3049.6	3035.8	2833.3	2490.8	2116.2	1905.1	1768.3	1669.7	1625.4	1681.1	1665.1
42.5°	3284.3	3264.4	3148.2	2814.1	2545.8	2335.6	2021.4	1891.4	1819.5	1939.5	1885.3
45°	3424.9	3395.2	3337.8	3034.3	2897.5	2823.3	2361.6	2149.8	2096.2	2186.5	2146.8
47.5°	3382.2	3333.3	3369.2	3189.6	3183.4	3254.5	2759.1	2447.9	2446.4	2478.5	2448.7
50°	3116.9	3081.7	3188.7	3208.6	3360.8	3596.2	3243.8	2783.6	2801.9	2789.7	2755.3
52.5°	2626.1	2633.7	2803.4	2967.1	3345.5	3799.5	3724.0	3178.8	3229.3	3094.7	3038.2
55°	2117.7	2143.7	2326.4	2530.5	3103.1	3848.5	4141.3	3615.3	3699.4	3391.4	3304.2
57.5°	1607.0	1642.1	1860.0	2013.0	2620.0	3679.6	4389.1	4025.9	4149.0	3674.2	3551.9
60°	1023.0	1044.3	1312.7	1569.5	1954.0	3107.7	4447.2	4444.1	4580.9	3961.7	3772.0
62.5°	662.1	674.3	788.2	1131.5	1358.5	2169.7	4257.5	4780.5	4920.4	4241.5	3960.9
64°	506.9	517.6	590.2	873.1	1078.0	1577.2	3912.8	4895.8	5028.1	4347.7	4031.2
65°	440.4	447.2	500.7	711.8	917.4	1237.0	3573.3	4898.9	5025.9	4378.3	4043.4
67.5°	366.2	368.5	388.4	450.3	648.3	689.6	2255.3	4535.0	4654.3	4312.6	3946.3
70°	331.8	336.3	362.3	366.9	500.7	477.0	840.1	3731.5	3827.9	4136.0	3730.8
72.5°	285.9	291.2	324.9	352.4	387.6	378.4	425.0	2620.7	2723.2	3580.9	3485.4
75°	233.1	238.6	270.7	311.2	324.9	297.4	334.1	1346.3	1518.3	2646.7	3119.2
77.5°	185.1	190.4	215.6	244.7	292.8	227.8	266.8	516.1	616.9	1644.5	2320.3
80°	131.4	134.5	161.3	185.1	221.0	197.2	194.2	282.1	296.7	817.2	1168.2
82.5°	81.0	83.4	107.8	123.9	147.5	197.2	139.1	194.2	198.8	343.3	357.8
85°	45.1	46.6	65.0	70.4	81.8	100.1	93.3	106.3	109.4	152.9	90.2
87.5°	5.3	6.9	15.2	16.8	15.2	16.8	16.8	15.2	16.1	13.8	7.7
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	0.7	0.7	0.7	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0
5°	0.7	0.7	1.5	1.5	2.3	2.3	3.1	4.6	4.6	4.6	5.3
7.5°	0.7	0.7	1.5	2.3	3.1	7.7	38.3	132.3	149.0	154.5	154.5
10°	4.6	4.6	4.6	5.3	15.2	149.0	167.5	172.8	175.0	175.0	176.6
12.5°	116.9	116.9	62.7	24.4	139.9	174.3	178.1	182.0	184.2	186.6	189.6
15°	246.9	247.7	240.8	236.2	249.2	188.0	190.4	306.6	319.6	324.9	325.7
17.5°	268.3	266.8	268.3	341.8	360.1	281.3	314.3	335.6	337.9	338.7	338.7
20°	481.6	479.4	380.7	361.6	369.3	467.1	338.7	339.4	380.7	441.9	461.0
22.5°	516.8	512.2	484.7	528.3	484.7	477.0	430.5	445.0	458.7	457.2	456.4
25°	651.3	638.3	534.4	545.8	613.9	483.1	516.8	429.6	437.3	439.6	440.4
27.5°	801.2	785.9	751.5	642.2	626.1	604.0	484.0	448.8	498.5	500.0	496.9
30°	856.2	835.6	785.9	803.5	669.7	569.6	464.0	474.8	449.5	448.8	449.5
32.5°	1163.6	1126.2	1029.8	870.7	707.2	515.3	457.2	423.5	451.8	459.5	459.5
35°	1272.9	1224.0	1140.7	1092.5	678.1	500.0	400.6	409.0	410.5	409.0	409.8
37.5°	1416.6	1352.4	1276.7	1113.1	698.8	435.0	382.3	379.2	409.0	414.4	416.6
40°	1584.0	1522.9	1452.6	1130.0	626.9	399.9	366.2	379.2	387.6	389.1	390.7
42.5°	1796.6	1711.7	1617.7	1126.9	533.7	383.8	363.1	363.1	373.1	370.0	370.0
45°	2038.9	1930.4	1772.9	1097.8	441.9	369.3	355.5	350.2	354.8	348.6	348.6
47.5°	2311.1	2191.9	1889.1	1052.7	389.1	356.3	348.6	331.8	342.5	340.9	340.9
50°	2599.3	2474.7	1997.6	951.0	356.3	344.8	331.0	327.2	340.9	337.9	337.2
52.5°	2876.0	2768.3	2080.2	812.6	328.0	334.1	324.9	323.4	335.6	332.6	331.8
55°	3141.4	3078.7	2183.4	695.7	302.8	315.0	322.6	322.6	330.3	327.2	327.2
57.5°	3399.8	3412.0	2305.7	615.4	283.7	299.7	319.6	318.8	323.4	321.1	321.8
60°	3662.8	3742.3	2428.1	539.7	268.3	282.1	313.4	311.9	314.3	313.4	314.3
62.5°	3912.0	4042.7	2576.4	442.6	251.5	268.3	303.5	305.0	304.2	306.6	306.6
64°	4039.6	4173.4	2649.7	386.1	241.6	259.9	295.8	298.2	297.4	302.0	301.3
65°	4089.3	4221.6	2675.7	352.4	235.5	254.6	290.5	293.6	292.8	298.2	295.8
67.5°	4075.5	4165.0	2644.4	290.5	219.4	240.1	276.0	281.3	279.1	286.7	281.3
70°	3931.1	3856.9	2396.0	253.1	206.4	224.0	257.7	264.5	260.6	268.3	259.2
72.5°	3660.4	3328.7	1864.6	219.4	191.9	208.0	237.0	243.9	240.8	243.9	233.9
75°	3061.1	2567.2	1091.0	190.4	172.8	185.8	212.6	219.4	216.4	209.5	205.6
77.5°	2128.4	1623.0	431.2	166.6	155.2	162.9	181.2	187.3	182.7	169.7	167.5
80°	1015.3	723.9	207.1	144.4	134.5	139.1	148.3	150.6	149.9	136.9	130.7
82.5°	311.2	237.0	143.0	116.2	109.4	107.8	116.9	114.0	112.4	103.2	81.0
85°	70.4	69.6	80.3	71.9	68.8	61.9	70.4	68.0	66.5	49.7	42.9
87.5°	2.3	4.6	3.8	9.9	10.7	8.4	13.8	14.5	10.7	4.6	0.7
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)