

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: P417337

Luminaire Tested: **LXF.LXT-PA1-90-827-U-T2U-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-90-827-U-T2U-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5358 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

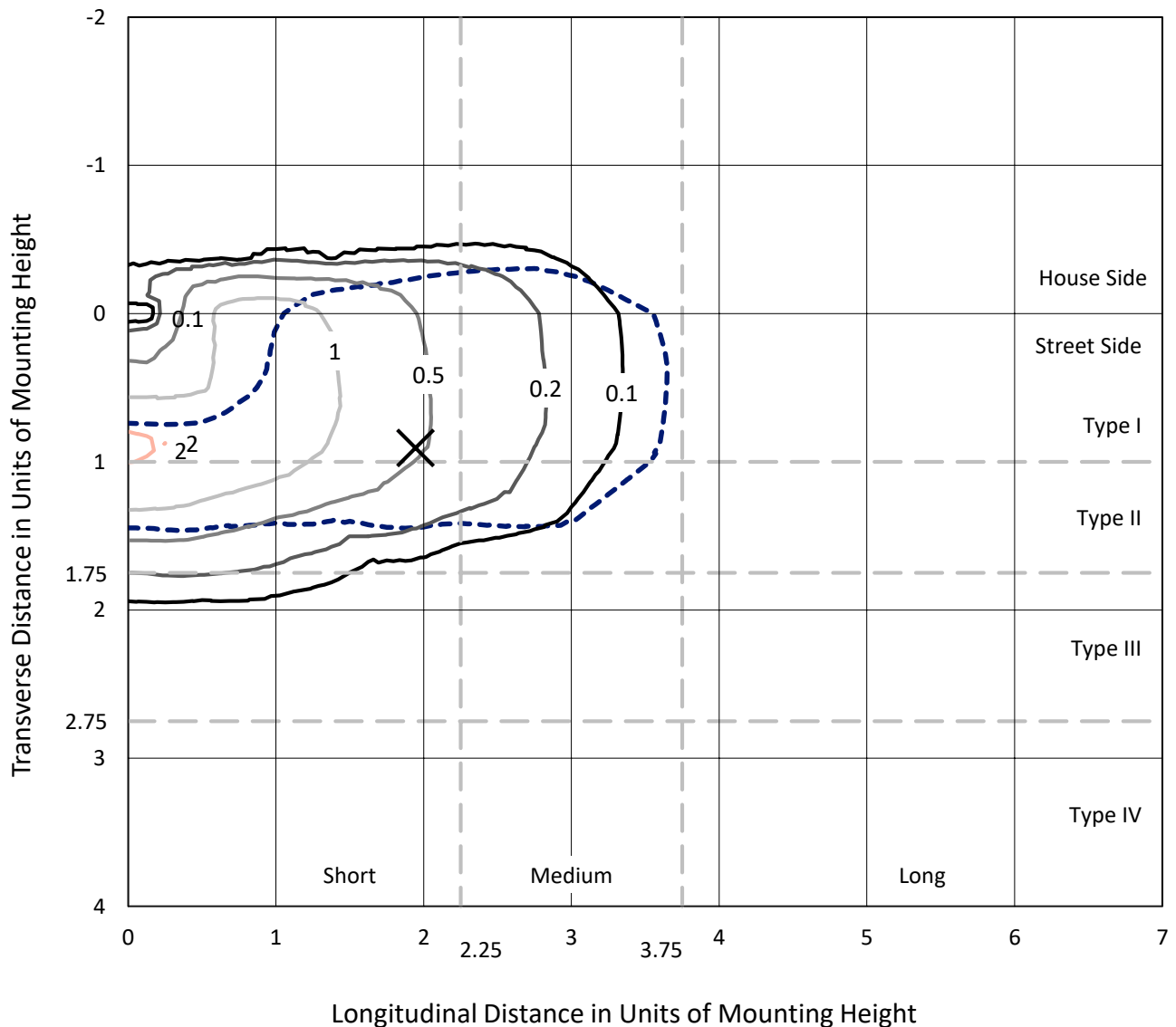
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

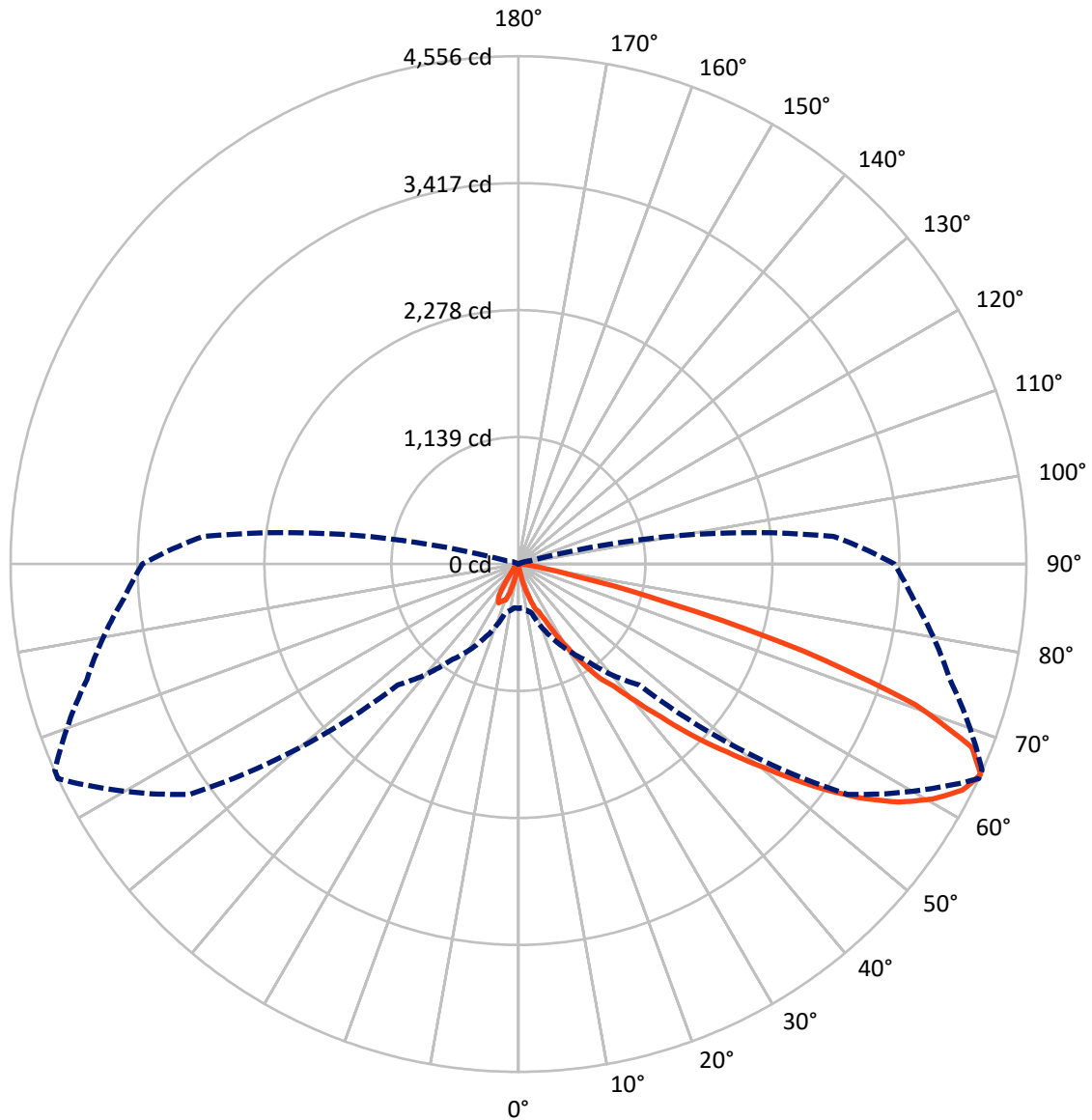
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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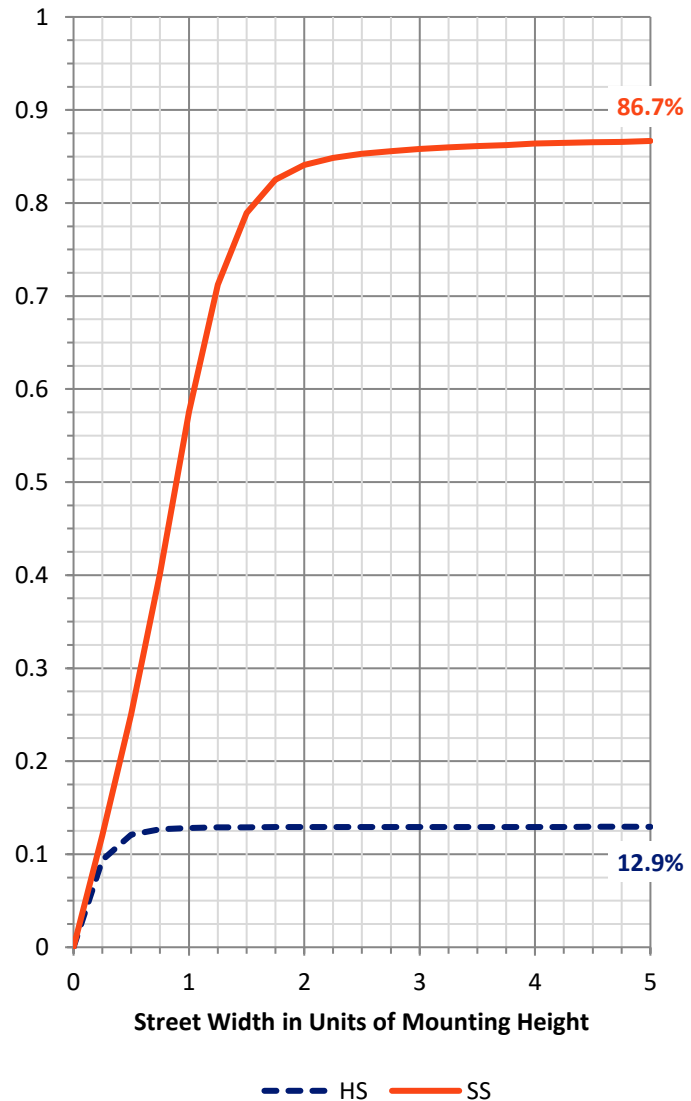
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	703.0	0.0	703.0
	% Fixture	13.1	0.0	13.1
<b>Street Side</b>	Lumens	4655.0	0.0	4655.0
	% Fixture	86.9	0.0	86.9
<b>Total</b>	Lumens	5358.0	0.0	5358.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	55.7	1.0
20°-30°	189.0	3.5
30°-40°	531.6	9.9
40°-50°	1179.5	22.0
50°-60°	1581.7	29.5
60°-70°	1260.0	23.5
70°-80°	519.1	9.7
80°-90°	37.2	0.7
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°	5358.0	100.0
0°-180°	5358.0	100.0



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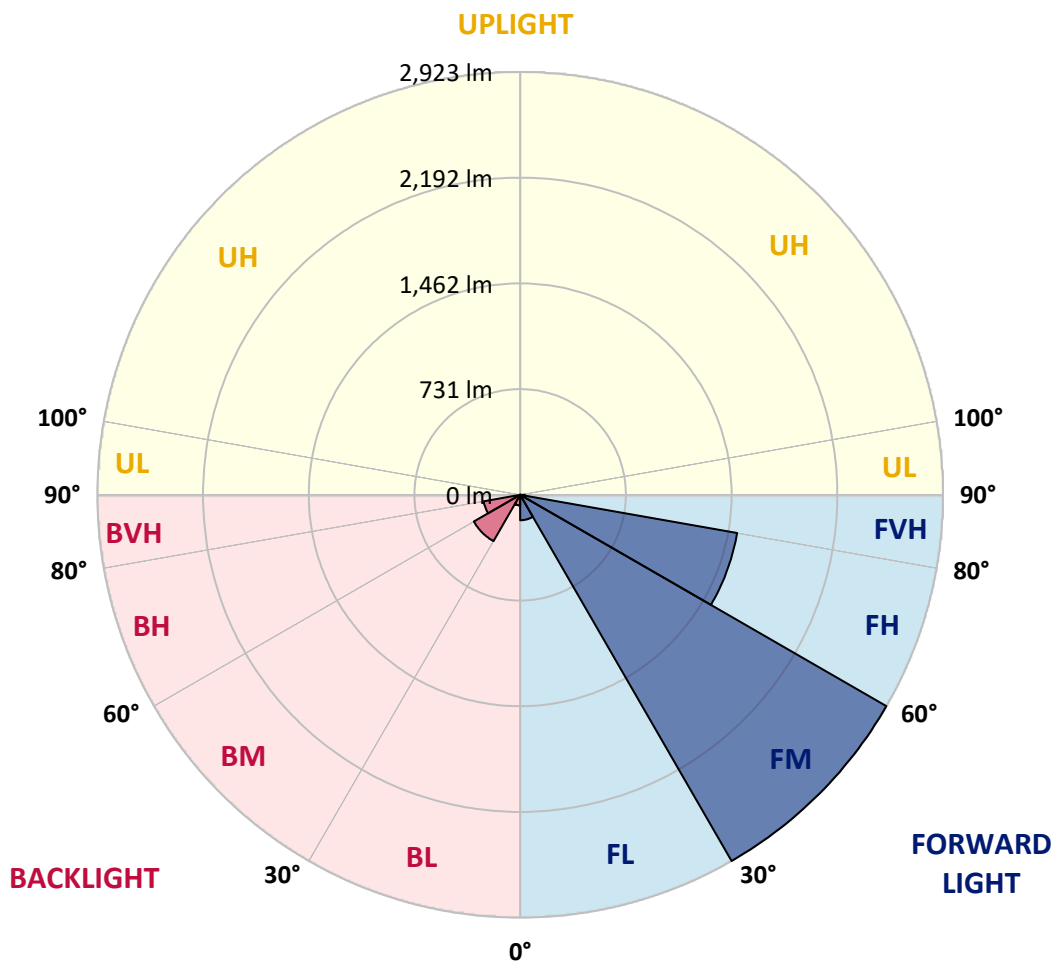
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	175.7	3.3			
FM	(30°-60°)	2923.1	54.6			
FH	(60°-80°)	1523.1	28.4			G1/1800
FVH	(80°-90°)	33.1	0.6			G1/100
BL	(0°-30°)	73.1	1.4	B0/110		
BM	(30°-60°)	369.7	6.9	B1/1000		
BH	(60°-80°)	256.1	4.8	B1/500		G1/500
BVH	(80°-90°)	4.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	0.8	0.8	0.8	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6
5°	23.0	21.4	15.9	8.7	4.8	3.2	2.4	1.6	1.6	1.6	1.6
7.5°	160.1	159.3	159.3	160.9	161.7	57.9	5.5	2.4	2.4	1.6	1.6
10°	153.8	153.0	153.0	155.3	157.7	158.5	152.2	4.0	3.2	1.6	1.6
12.5°	286.9	282.2	179.9	157.7	153.8	155.3	156.1	134.7	62.6	96.7	119.7
15°	287.7	285.3	287.7	291.7	233.0	162.5	237.0	231.4	231.4	170.4	233.8
17.5°	290.9	287.7	289.3	294.8	286.1	336.0	317.0	328.1	328.1	242.5	258.4
20°	429.6	428.8	435.1	318.6	355.9	416.9	345.6	424.0	431.9	360.6	373.3
22.5°	438.3	437.5	447.8	446.2	436.7	447.8	505.7	464.4	466.8	545.3	493.0
25°	610.3	596.0	483.5	474.7	573.8	531.8	606.3	559.5	554.8	659.4	625.3
27.5°	698.2	691.9	699.0	677.6	607.9	652.3	656.2	720.4	687.9	755.3	770.4
30°	848.8	852.8	817.1	781.5	796.5	756.9	789.4	875.8	871.8	856.0	971.7
32.5°	1355.3	1314.1	1244.3	968.5	907.5	878.9	969.3	1066.8	1027.2	1085.8	1201.5
35°	1793.6	1701.6	1585.9	1389.4	1127.0	1050.9	1161.1	1257.0	1232.4	1350.5	1343.4
37.5°	2524.3	2481.5	2281.0	1779.3	1517.8	1310.9	1364.0	1387.0	1415.5	1550.2	1547.1
40°	2956.2	2907.1	2765.2	2368.2	1915.6	1626.3	1603.3	1615.2	1624.7	1760.3	1769.8
42.5°	3319.2	3297.0	3159.1	2778.7	2408.6	2137.5	1922.7	1876.0	1893.4	2030.5	2012.3
45°	3565.7	3539.6	3415.1	3149.6	2842.9	2703.4	2293.7	2202.5	2207.3	2283.4	2269.1
47.5°	3619.6	3588.7	3533.2	3385.8	3282.0	3168.7	2758.1	2518.0	2571.9	2575.8	2527.5
50°	3427.8	3389.8	3436.5	3401.7	3560.2	3617.2	3228.1	2885.7	2978.4	2893.6	2759.7
52.5°	2953.1	2965.0	3109.2	3214.6	3570.5	3931.1	3733.0	3307.4	3370.0	3156.0	2979.2
55°	2345.2	2374.5	2613.1	2806.5	3328.0	4019.1	4098.3	3698.1	3722.7	3435.0	3156.8
57.5°	1727.0	1766.6	2059.9	2275.4	2858.0	3829.6	4277.4	4030.2	4078.5	3636.3	3280.4
60°	1062.8	1099.3	1431.4	1759.5	2193.8	3285.2	4301.2	4279.0	4334.5	3778.1	3404.8
62.5°	647.5	678.4	823.5	1222.1	1576.4	2483.1	4103.1	4470.0	4497.8	3921.6	3494.4
65°	398.7	393.1	451.8	742.6	1051.7	1535.2	3602.2	4556.4	4553.3	4008.0	3554.6
67.5°	263.9	268.7	290.9	408.2	716.5	829.8	2583.0	4386.8	4371.0	4050.0	3530.9
70°	233.8	235.4	257.6	289.3	516.0	483.5	1303.8	3776.5	3754.4	3936.6	3382.6
72.5°	183.1	188.6	225.1	262.3	372.5	354.3	491.4	2674.9	2703.4	3346.2	2976.9
75°	130.0	133.9	170.4	229.0	278.2	271.1	277.4	1379.1	1463.1	2221.5	2181.1
77.5°	81.6	84.8	110.2	169.6	236.2	199.7	194.2	541.3	606.3	1086.6	1091.4
80°	56.3	57.1	68.2	114.1	169.6	164.1	131.6	216.4	218.7	393.9	378.1
82.5°	33.3	33.3	45.2	70.5	103.8	133.9	84.8	108.6	112.5	145.8	83.2
85°	11.9	12.7	24.6	40.4	57.9	70.5	50.7	59.4	61.8	75.3	39.6
87.5°	0.8	1.6	7.9	12.7	15.9	14.3	16.6	18.2	20.6	24.6	14.3
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°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
2.5°	1.6	1.6	2.4	2.4	2.4	1.6	0.8	0.8	0.8	0.8	0.8
5°	1.6	1.6	2.4	2.4	2.4	1.6	0.8	0.8	0.8	0.8	0.8
7.5°	1.6	1.6	2.4	2.4	2.4	1.6	22.2	123.6	129.2	133.2	133.9
10°	4.8	3.2	2.4	2.4	2.4	128.4	133.2	130.0	127.6	125.2	126.0
12.5°	121.3	121.3	110.2	71.3	119.7	131.6	124.4	116.5	110.2	103.0	103.8
15°	233.0	231.4	204.5	175.9	201.3	129.2	107.0	141.9	121.3	107.0	104.6
17.5°	259.2	251.2	219.5	280.6	249.7	147.4	123.6	84.0	60.2	54.7	53.9
20°	373.3	363.0	320.2	340.0	228.3	170.4	74.5	47.6	42.8	51.5	53.1
22.5°	480.3	466.0	400.2	351.9	256.8	104.6	52.3	52.3	51.5	49.9	49.1
25°	617.4	592.0	536.6	368.5	203.7	69.0	57.1	46.8	42.0	38.8	38.8
27.5°	758.5	724.4	615.0	392.3	133.9	64.2	50.7	39.6	42.0	40.4	40.4
30°	964.5	917.8	716.5	367.0	87.2	59.4	42.8	38.8	34.1	32.5	31.7
32.5°	1177.7	1092.1	816.3	319.4	69.0	50.7	39.6	31.7	30.9	31.7	31.7
35°	1314.1	1234.0	924.1	232.2	60.2	44.4	32.5	29.3	26.9	26.2	26.2
37.5°	1477.3	1378.3	933.6	150.6	52.3	36.5	27.7	24.6	24.6	25.4	25.4
40°	1673.1	1564.5	895.6	92.7	45.2	30.1	23.8	22.2	21.4	21.4	21.4
42.5°	1892.6	1755.5	842.5	69.7	38.0	25.4	19.8	19.0	18.2	18.2	18.2
45°	2127.2	1948.1	769.6	57.9	31.7	21.4	16.6	15.9	15.9	15.1	15.1
47.5°	2370.5	2154.2	659.4	50.7	26.2	17.4	14.3	13.5	12.7	12.7	12.7
50°	2579.0	2342.8	524.7	43.6	22.2	15.1	11.1	10.3	10.3	9.5	9.5
52.5°	2768.4	2502.9	416.1	37.3	18.2	11.9	8.7	7.9	7.9	7.1	7.1
55°	2914.2	2621.8	310.7	30.9	15.1	9.5	6.3	5.5	5.5	4.8	5.5
57.5°	3037.1	2694.7	235.4	25.4	12.7	7.1	4.8	4.0	3.2	3.2	3.2
60°	3153.6	2753.4	173.6	19.8	10.3	5.5	3.2	2.4	1.6	1.6	1.6
62.5°	3278.8	2805.7	137.1	15.9	8.7	4.0	1.6	1.6	0.0	0.0	0.0
65°	3373.1	2838.2	106.2	12.7	7.1	2.4	1.6	0.8	0.0	0.0	0.0
67.5°	3376.3	2796.9	83.2	10.3	6.3	2.4	0.8	0.0	0.0	0.0	0.0
70°	3255.0	2621.8	61.8	9.5	5.5	2.4	1.6	0.8	0.0	0.0	0.0
72.5°	2820.7	2058.3	44.4	7.9	4.8	2.4	1.6	0.8	0.8	0.0	0.0
75°	2040.0	1216.6	30.9	7.1	4.8	2.4	2.4	1.6	1.6	1.6	0.0
77.5°	1046.2	505.7	20.6	6.3	4.0	1.6	3.2	2.4	2.4	2.4	0.8
80°	306.7	174.4	12.7	5.5	4.0	1.6	3.2	3.2	3.2	3.2	0.8
82.5°	58.6	34.1	7.9	5.5	4.0	1.6	3.2	3.2	3.2	4.0	0.0
85°	23.0	13.5	5.5	4.8	4.0	1.6	3.2	3.2	4.0	4.0	0.0
87.5°	7.9	6.3	4.8	4.0	4.0	1.6	3.2	3.2	3.2	4.0	0.8
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)