

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: P417355

Luminaire Tested: **LXF.LXT-PA1-90-827-U-T4W-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-27)  
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-T4W-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5473 lumens  
Efficiency: N/A  
Efficacy: 58.2 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2

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

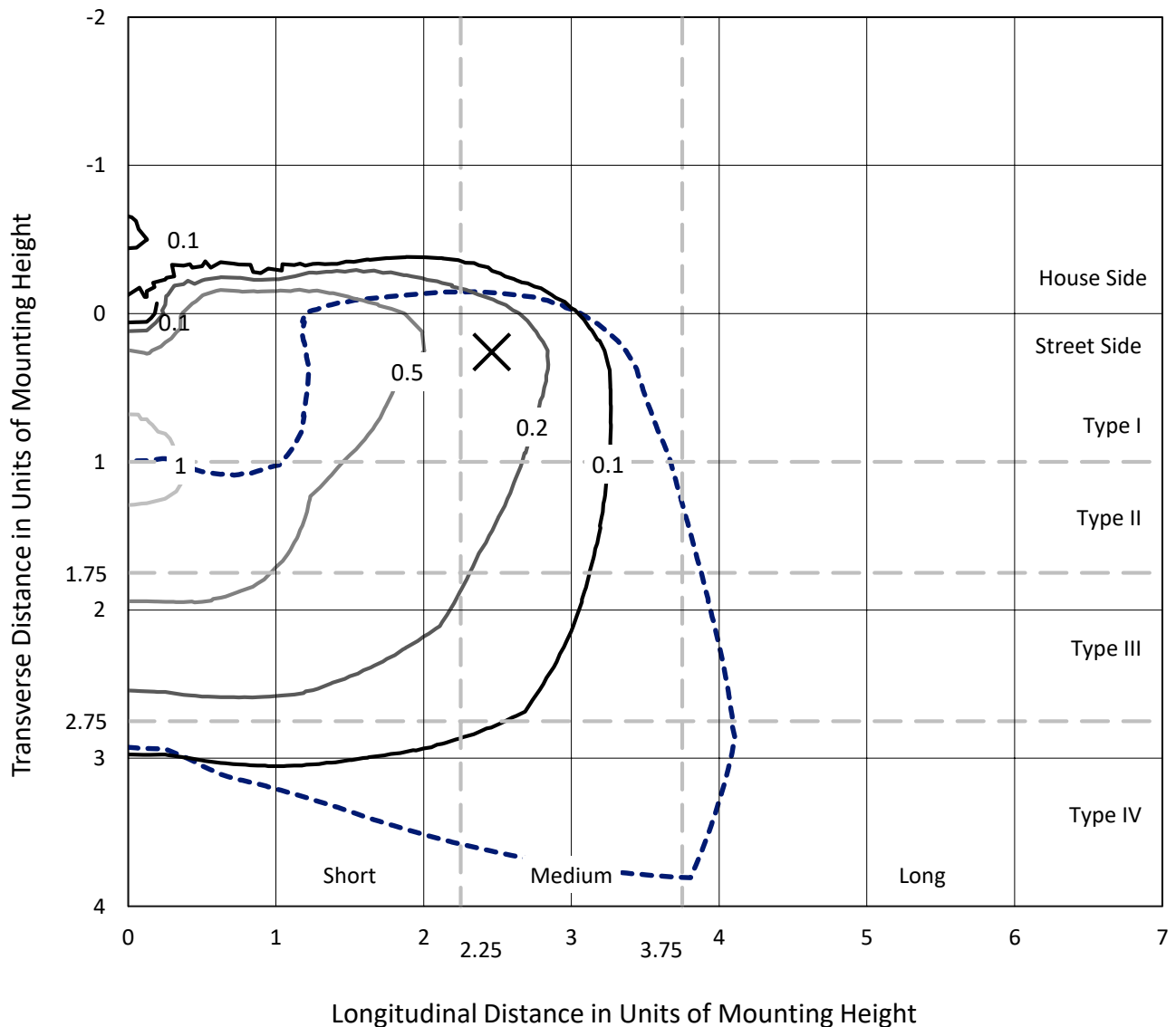


REPORT NUMBER: P417355

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

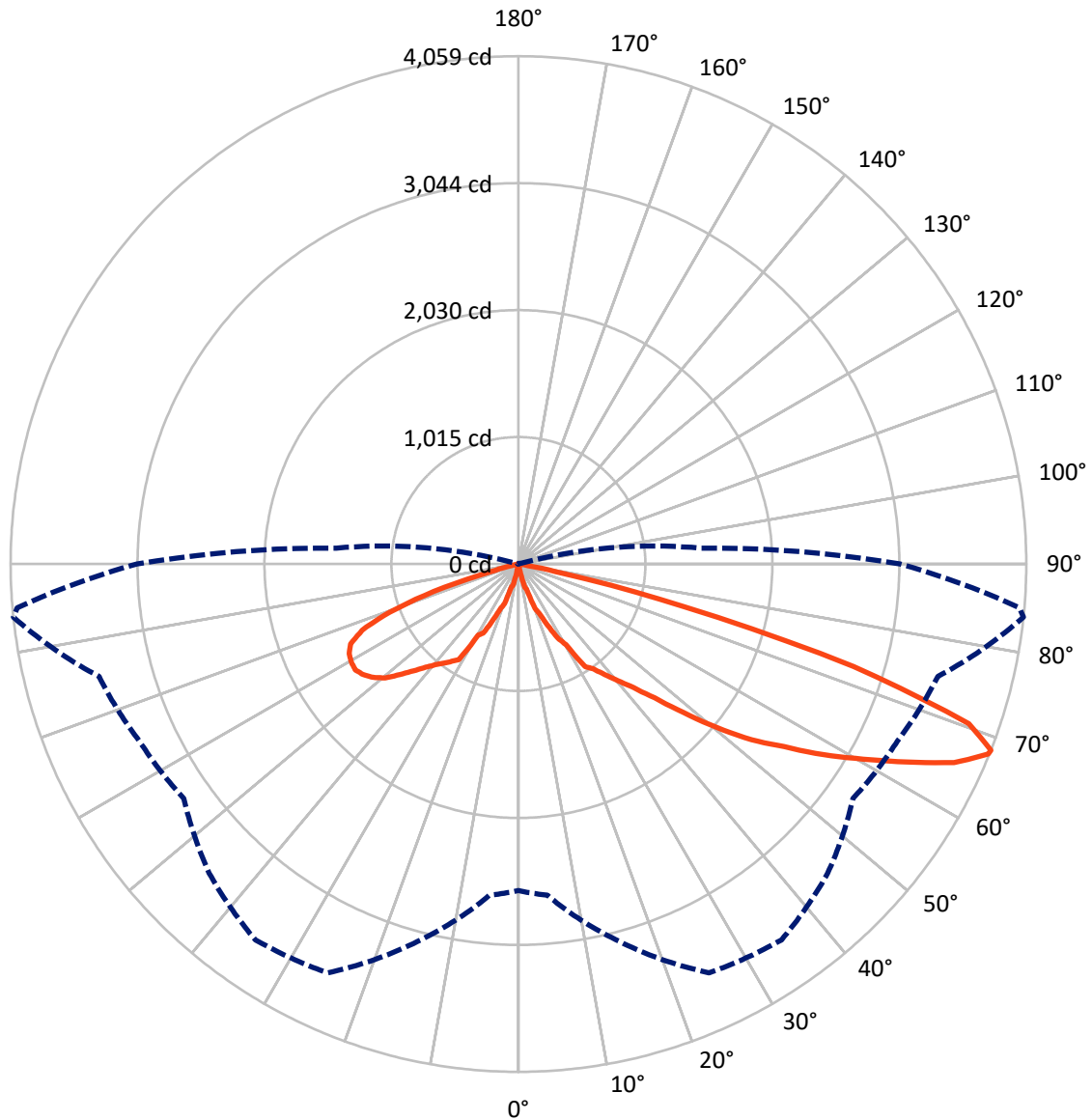
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P417355  
CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 68-Deg Vertical



REPORT NUMBER: P417355

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T4W-HSS

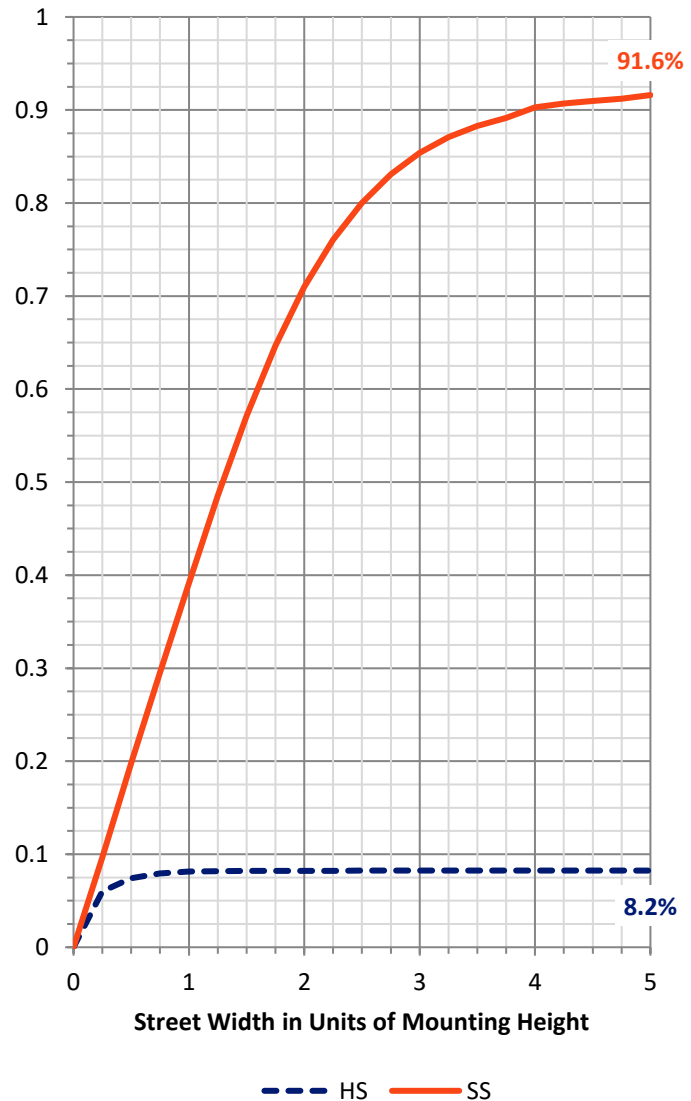
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	454.8	0.0	454.8
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	5018.2	0.0	5018.2
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	5473.0	0.0	5473.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	49.5	0.9
20°-30°	177.4	3.2
30°-40°	379.0	6.9
40°-50°	677.2	12.4
50°-60°	1201.5	22.0
60°-70°	1726.8	31.6
70°-80°	1162.4	21.2
80°-90°	95.5	1.7
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°	5473.0	100.0
0°-180°	5473.0	100.0



REPORT NUMBER: P417355

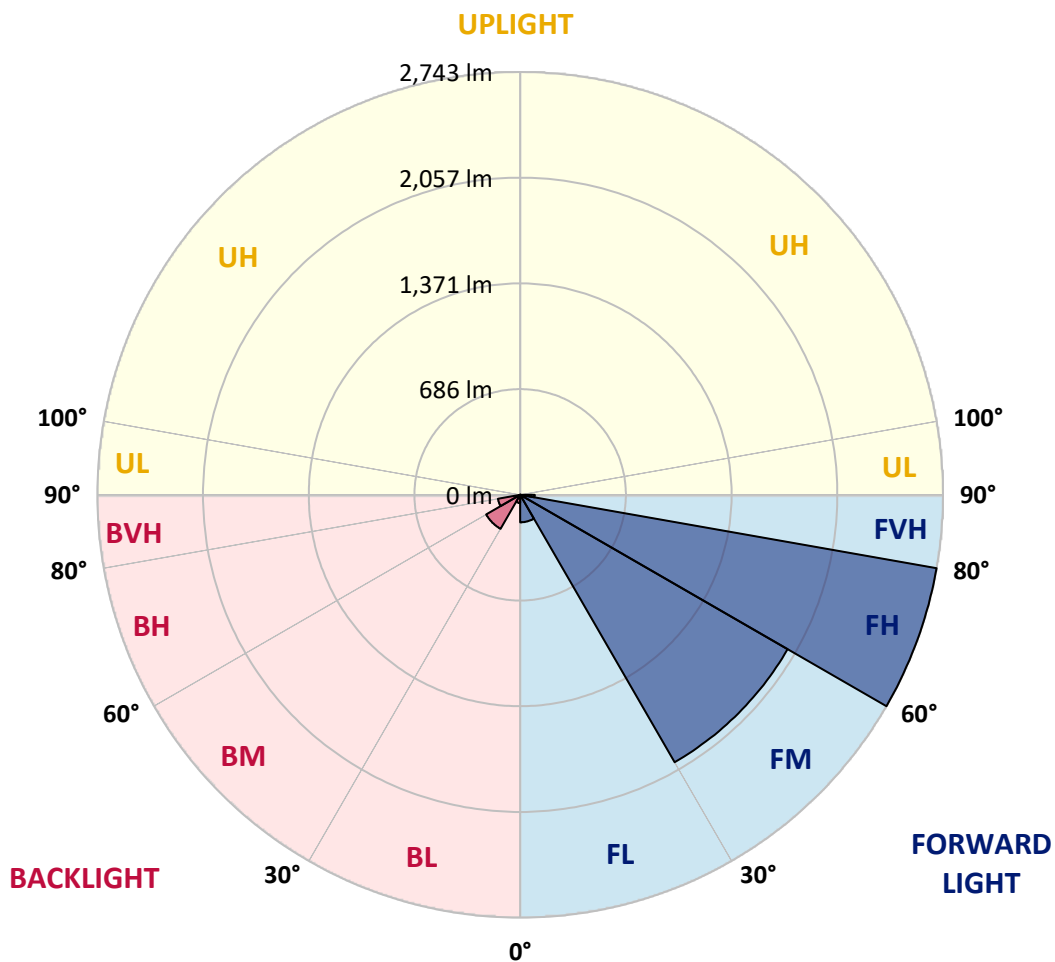
CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T4W-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.4	3.3			
FM	(30°-60°)	2002.9	36.6			
FH	(60°-80°)	2742.8	50.1			G2/5000
FVH	(80°-90°)	94.1	1.7			G1/100
BL	(0°-30°)	52.2	1.0	B0/110		
BM	(30°-60°)	254.8	4.7	B1/1000		
BH	(60°-80°)	146.4	2.7	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Medium





REPORT NUMBER: P417355

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.0	0.8	0.8	1.6	1.6	2.4	2.4	2.4	2.4
5°	42.0	35.7	34.9	30.9	22.2	5.5	1.6	2.4	2.4	2.4	2.4
7.5°	150.6	148.2	146.6	143.5	140.3	107.8	21.4	2.4	2.4	2.4	2.4
10°	161.7	158.5	156.2	152.2	147.4	141.9	135.5	17.4	2.4	2.4	2.4
12.5°	334.5	330.5	229.1	189.4	156.2	148.2	143.5	74.5	69.0	78.5	89.6
15°	351.9	348.8	340.1	329.0	295.7	167.3	225.1	279.8	182.3	194.2	194.2
17.5°	392.4	386.0	355.9	339.3	325.8	358.3	329.0	299.6	196.6	208.5	208.5
20°	549.3	547.7	539.0	376.5	342.4	453.4	358.3	319.4	363.0	378.9	360.7
22.5°	554.1	552.5	546.2	524.7	538.2	466.1	514.4	482.7	495.4	432.8	429.6
25°	734.8	728.5	583.4	534.3	607.2	497.0	611.9	532.7	523.2	540.6	540.6
27.5°	748.3	746.7	741.9	711.0	623.0	703.9	630.2	689.6	703.1	668.2	686.5
30°	852.1	799.8	772.1	753.8	734.0	738.8	735.6	793.5	732.4	746.7	738.8
32.5°	991.6	986.9	972.6	803.8	815.7	771.3	857.7	849.0	947.2	978.2	973.4
35°	1185.8	1109.7	1017.0	929.8	846.6	916.3	886.2	987.7	1012.2	1026.5	1055.8
37.5°	1356.3	1331.7	1245.3	986.1	937.7	943.3	1013.8	1058.2	1094.7	1120.0	1132.7
40°	1512.4	1494.2	1436.3	1152.5	986.9	1024.1	1082.0	1106.6	1178.7	1225.5	1226.3
42.5°	1743.9	1755.0	1701.1	1303.2	1120.0	1137.5	1186.6	1190.6	1254.8	1348.3	1351.5
45°	2033.2	2018.1	2004.7	1521.9	1246.9	1235.8	1303.9	1294.4	1393.5	1525.1	1541.0
47.5°	2312.2	2290.8	2254.4	1774.0	1422.8	1346.0	1441.1	1449.0	1603.6	1771.6	1778.0
50°	2527.8	2519.9	2483.4	2067.3	1656.7	1498.1	1593.3	1686.8	1850.9	2053.0	2066.5
52.5°	2765.6	2747.4	2683.2	2342.3	1957.1	1727.2	1775.6	1939.7	2111.7	2333.6	2332.0
55°	2924.2	2926.5	2865.5	2622.9	2229.8	1986.4	2005.5	2257.5	2349.5	2576.2	2592.8
57.5°	3135.0	3117.6	3134.2	2952.7	2599.2	2249.6	2294.0	2512.0	2594.4	2874.2	2885.3
60°	3292.0	3298.3	3380.7	3257.1	2885.3	2517.5	2555.6	2719.7	2838.6	3165.9	3200.8
62.5°	3297.5	3331.6	3553.5	3562.3	3195.3	2807.6	2783.1	2932.1	3036.7	3483.0	3525.0
65°	2995.5	3016.1	3516.3	3643.1	3483.0	3092.2	2999.5	3111.2	3232.5	3826.2	3834.1
67.5°	2692.7	2699.0	3181.8	3619.3	3655.8	3433.9	3230.1	3307.0	3424.3	4052.1	4024.4
68°	2610.3	2657.8	3123.9	3605.9	3666.9	3495.7	3265.0	3344.3	3471.1	4059.3	4020.4
70°	2366.1	2416.9	2845.7	3455.3	3661.3	3728.7	3456.0	3467.1	3500.4	3819.9	3695.4
72.5°	1590.9	1625.0	2252.0	2940.8	3542.4	3999.8	3669.3	3394.2	3140.6	2800.5	2690.3
75°	611.9	615.9	1135.1	2021.3	3062.9	3864.3	3444.2	2861.5	2133.1	1363.4	1280.2
77.5°	228.3	224.3	329.0	936.9	1944.4	3002.6	2571.4	1754.2	888.6	357.5	349.6
80°	80.9	83.2	127.6	282.2	790.3	1754.2	1431.6	714.2	261.6	79.3	72.9
82.5°	31.7	34.1	65.0	134.0	339.3	736.4	611.1	303.6	153.0	30.1	28.5
85°	7.1	7.9	25.4	66.6	129.2	213.2	214.8	185.5	126.8	14.3	13.5
87.5°	0.8	1.6	7.1	8.7	10.3	5.5	18.2	19.0	34.9	5.5	5.5
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: P417355

CATALOG NUMBER: LXF.LXT-PA1-90-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	2.4	2.4	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
5°	2.4	2.4	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
7.5°	2.4	2.4	2.4	1.6	0.8	0.8	0.0	69.8	72.1	74.5	75.3
10°	2.4	2.4	2.4	1.6	1.6	72.9	85.6	82.4	76.9	74.5	75.3
12.5°	86.4	84.0	27.0	5.5	66.6	80.1	65.8	54.7	49.1	45.2	45.2
15°	188.7	181.5	151.4	115.7	108.6	61.8	42.0	35.7	52.3	63.4	63.4
17.5°	200.5	191.8	169.6	168.0	110.2	53.9	43.6	56.3	59.5	62.6	62.6
20°	388.4	348.0	239.4	160.9	80.9	65.8	54.7	53.9	56.3	60.2	61.0
22.5°	416.2	396.3	301.2	195.0	73.7	71.3	63.4	60.2	80.9	88.0	88.0
25°	528.7	509.7	324.2	155.4	89.6	72.9	80.1	75.3	76.9	83.2	83.2
27.5°	676.1	641.3	425.7	130.8	83.2	79.3	81.6	75.3	88.8	105.4	105.4
30°	749.1	679.3	407.4	115.7	84.8	86.4	78.5	91.9	91.9	98.3	99.1
32.5°	999.6	951.2	459.0	97.5	84.8	79.3	85.6	87.2	85.6	111.0	111.8
35°	1063.8	1005.9	393.2	101.5	80.9	76.9	76.9	86.4	91.9	97.5	98.3
37.5°	1142.2	1066.9	309.1	95.1	84.0	74.5	70.5	73.7	80.9	95.1	95.9
40°	1242.1	1133.5	237.8	89.6	78.5	68.2	64.2	67.4	67.4	71.3	72.1
42.5°	1376.9	1212.8	176.0	85.6	73.7	62.6	56.3	52.3	49.9	49.1	49.9
45°	1561.6	1314.2	131.6	81.6	70.5	55.5	46.8	38.0	31.7	31.7	32.5
47.5°	1781.1	1427.6	107.0	75.3	65.8	47.6	35.7	24.6	19.8	20.6	21.4
50°	2015.0	1547.3	93.5	69.8	60.2	38.8	23.8	15.1	12.7	13.5	14.3
52.5°	2231.4	1625.0	88.0	64.2	53.1	30.1	15.1	10.3	9.5	9.5	10.3
55°	2448.6	1683.6	83.2	58.7	42.8	19.8	8.7	7.9	7.9	7.1	7.1
57.5°	2650.7	1718.5	75.3	50.7	30.1	11.9	6.3	6.3	5.5	5.5	5.5
60°	2836.2	1714.5	60.2	38.0	19.0	7.1	4.8	4.8	4.0	4.0	4.0
62.5°	3025.6	1697.1	42.8	27.0	12.7	4.8	3.2	3.2	2.4	1.6	2.4
65°	3139.8	1648.0	28.5	19.0	7.9	3.2	2.4	1.6	0.8	0.0	0.8
67.5°	3092.2	1505.3	21.4	14.3	5.5	2.4	1.6	0.8	0.0	0.0	0.0
68°	3048.6	1460.1	19.8	13.5	4.8	2.4	1.6	0.8	0.0	0.0	0.0
70°	2705.4	1216.7	17.4	11.1	4.0	2.4	1.6	0.8	0.0	0.0	0.0
72.5°	1804.9	790.3	14.3	8.7	3.2	1.6	1.6	0.8	0.0	0.0	0.0
75°	832.3	253.7	11.1	7.1	2.4	1.6	1.6	0.8	0.0	0.0	0.0
77.5°	221.9	53.9	7.1	4.8	2.4	1.6	1.6	0.8	0.8	0.8	0.0
80°	53.1	16.6	4.8	4.0	2.4	1.6	1.6	0.8	0.8	0.8	0.0
82.5°	19.8	8.7	3.2	3.2	2.4	1.6	1.6	0.8	1.6	1.6	0.0
85°	8.7	5.5	3.2	3.2	2.4	1.6	1.6	1.6	1.6	2.4	0.0
87.5°	4.0	4.0	3.2	3.2	3.2	1.6	2.4	2.4	2.4	2.4	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)