

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: P417251

Luminaire Tested: **LXF.LXT-PA1-90-750-U-T4W-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P417251  
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-PA1-90-750-U-T4W-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 5000K, 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: 7445 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

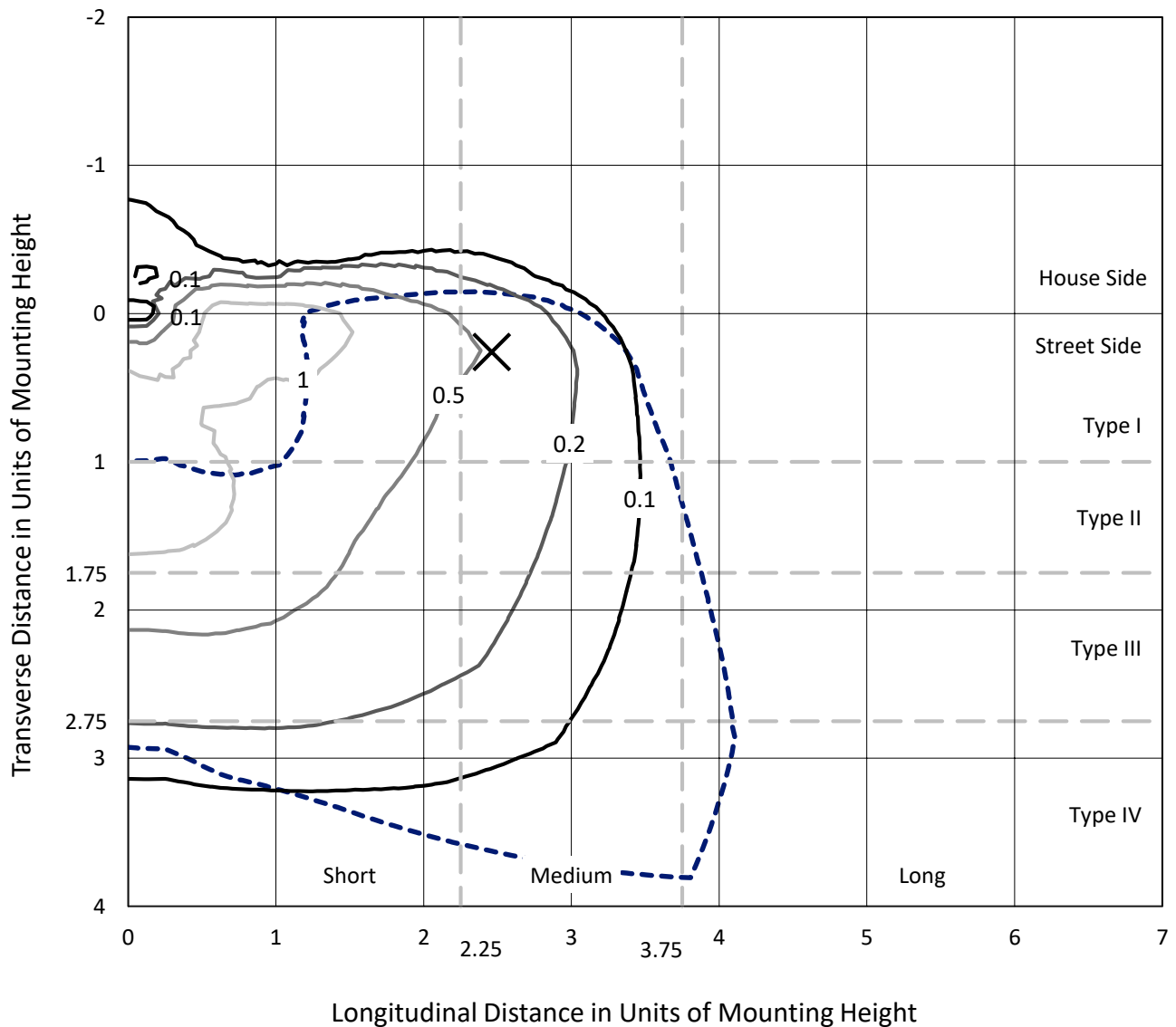
Input Watts (W): 94  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

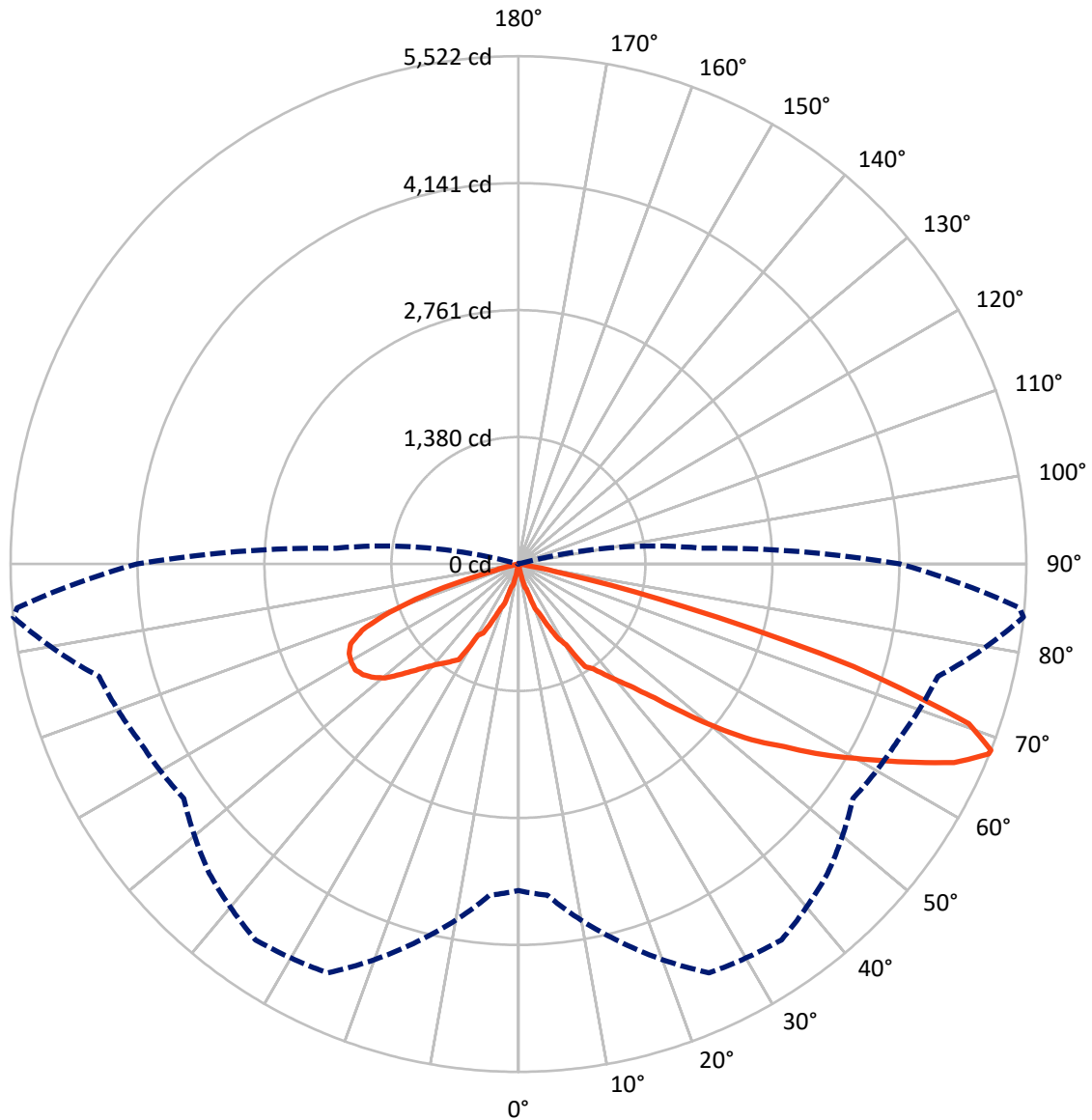
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



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



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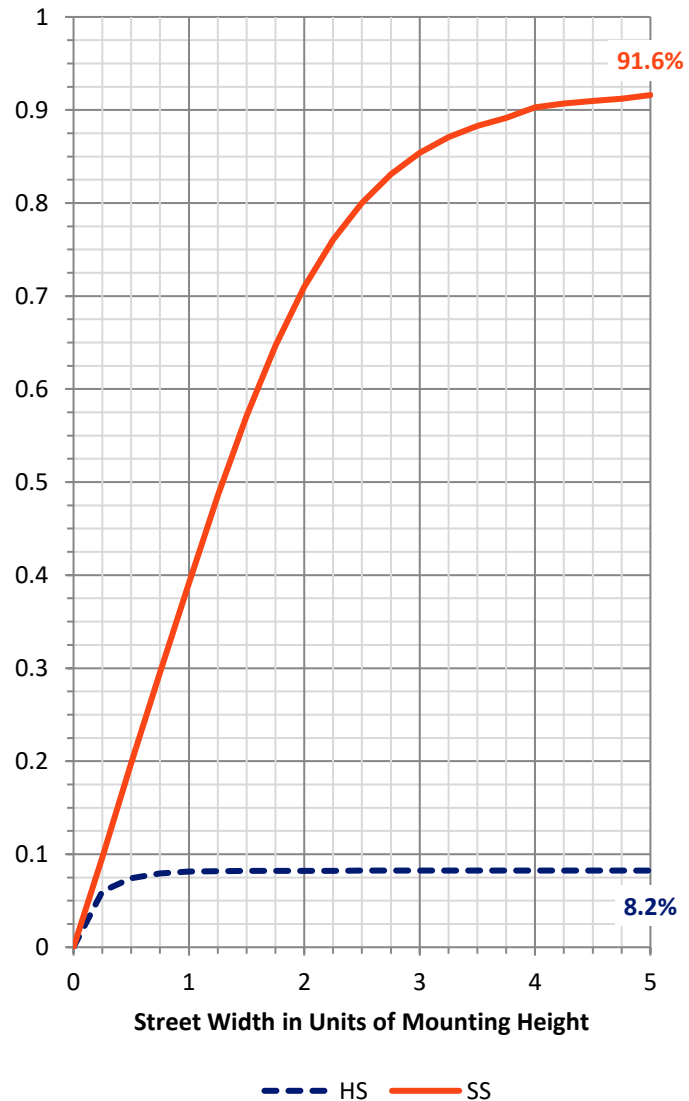
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	618.7	0.0	618.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	6826.3	0.0	6826.3
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	7445.0	0.0	7445.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.9	0.1
10°-20°	67.4	0.9
20°-30°	241.4	3.2
30°-40°	515.5	6.9
40°-50°	921.2	12.4
50°-60°	1634.5	22.0
60°-70°	2348.9	31.6
70°-80°	1581.3	21.2
80°-90°	129.9	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°	7445.0	100.0
0°-180°	7445.0	100.0



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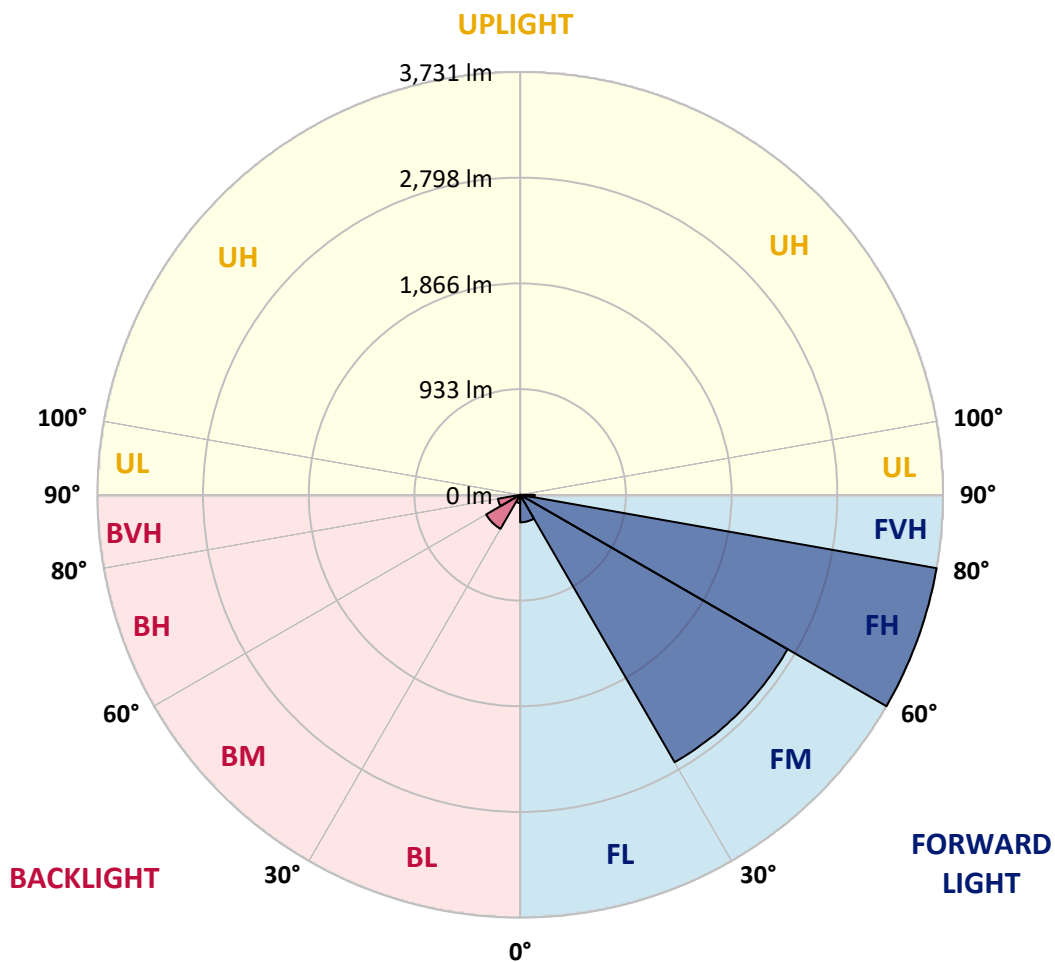
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	242.7	3.3			
FM	(30°-60°)	2724.6	36.6			
FH	(60°-80°)	3731.1	50.1			G2/5000
FVH	(80°-90°)	128.0	1.7			G2/225
BL	(0°-30°)	71.0	1.0	B0/110		
BM	(30°-60°)	346.6	4.7	B1/1000		
BH	(60°-80°)	199.1	2.7	B1/500		G1/500
BVH	(80°-90°)	2.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	1.1	1.1	0.0	1.1	1.1	2.2	2.2	3.2	3.2	3.2	3.2
5°	57.1	48.5	47.4	42.1	30.2	7.5	2.2	3.2	3.2	3.2	3.2
7.5°	204.9	201.6	199.5	195.2	190.9	146.6	29.1	3.2	3.2	3.2	3.2
10°	220.0	215.7	212.4	207.0	200.6	193.0	184.4	23.7	3.2	3.2	3.2
12.5°	455.0	449.6	311.6	257.7	212.4	201.6	195.2	101.4	93.8	106.7	121.8
15°	478.8	474.4	462.6	447.5	402.2	227.5	306.2	380.6	248.0	264.2	264.2
17.5°	533.7	525.1	484.1	461.5	443.2	487.4	447.5	407.6	267.4	283.6	283.6
20°	747.2	745.1	733.2	512.2	465.8	616.8	487.4	434.5	493.9	515.4	490.6
22.5°	753.7	751.6	742.9	713.8	732.2	634.0	699.8	656.7	673.9	588.7	584.4
25°	999.6	990.9	793.6	726.8	826.0	676.1	832.4	724.6	711.7	735.4	735.4
27.5°	1017.9	1015.7	1009.3	967.2	847.5	957.5	857.2	938.1	956.4	909.0	933.8
30°	1159.2	1088.0	1050.2	1025.4	998.5	1005.0	1000.6	1079.4	996.3	1015.7	1005.0
32.5°	1348.9	1342.5	1323.1	1093.4	1109.6	1049.2	1166.7	1154.8	1288.5	1330.6	1324.1
35°	1613.1	1509.6	1383.4	1264.8	1151.6	1246.5	1205.5	1343.5	1377.0	1396.4	1436.3
37.5°	1844.9	1811.5	1694.0	1341.4	1275.6	1283.2	1379.1	1439.5	1489.1	1523.6	1540.9
40°	2057.4	2032.6	1953.8	1567.8	1342.5	1393.1	1471.9	1505.3	1603.4	1667.0	1668.1
42.5°	2372.2	2387.3	2314.0	1772.7	1523.6	1547.3	1614.2	1619.6	1706.9	1834.2	1838.5
45°	2765.8	2745.3	2727.0	2070.3	1696.1	1681.0	1773.8	1760.8	1895.6	2074.6	2096.2
47.5°	3145.3	3116.2	3066.6	2413.2	1935.5	1830.9	1960.3	1971.1	2181.4	2410.0	2418.6
50°	3438.6	3427.9	3378.3	2812.2	2253.6	2038.0	2167.3	2294.6	2517.8	2792.7	2811.1
52.5°	3762.1	3737.3	3650.0	3186.3	2662.3	2349.6	2415.4	2638.6	2872.5	3174.5	3172.3
55°	3977.8	3981.0	3898.0	3568.0	3033.2	2702.2	2728.1	3070.9	3196.0	3504.4	3527.1
57.5°	4264.6	4240.9	4263.5	4016.6	3535.7	3060.2	3120.5	3417.1	3529.2	3909.8	3924.9
60°	4478.1	4486.7	4598.9	4430.7	3924.9	3424.6	3476.4	3699.6	3861.3	4306.7	4354.1
62.5°	4485.7	4532.0	4833.9	4845.8	4346.6	3819.3	3785.8	3988.6	4130.9	4738.0	4795.1
65°	4074.8	4102.9	4783.3	4955.8	4738.0	4206.4	4080.2	4232.3	4397.2	5204.9	5215.6
67.5°	3662.9	3671.5	4328.2	4923.4	4973.0	4671.1	4394.0	4498.6	4658.2	5512.2	5474.4
68°	3550.8	3615.5	4249.5	4905.1	4988.1	4755.2	4441.4	4549.3	4721.8	5521.9	5469.0
70°	3218.7	3287.7	3871.0	4700.2	4980.6	5072.2	4701.3	4716.4	4761.7	5196.2	5026.9
72.5°	2164.1	2210.5	3063.4	4000.4	4818.8	5441.0	4991.4	4617.2	4272.2	3809.6	3659.7
75°	832.4	837.8	1544.1	2749.6	4166.5	5256.6	4685.1	3892.6	2901.7	1854.6	1741.4
77.5°	310.5	305.2	447.5	1274.5	2645.0	4084.5	3497.9	2386.2	1208.8	486.3	475.5
80°	110.0	113.2	173.6	383.9	1075.0	2386.2	1947.4	971.5	355.8	107.8	99.2
82.5°	43.1	46.4	88.4	182.2	461.5	1001.7	831.4	413.0	208.1	41.0	38.8
85°	9.7	10.8	34.5	90.6	175.8	290.1	292.2	252.3	172.5	19.4	18.3
87.5°	1.1	2.2	9.7	11.9	14.0	7.5	24.8	25.9	47.4	7.5	7.5
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°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	3.2	3.2	3.2	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0
5°	3.2	3.2	3.2	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0
7.5°	3.2	3.2	3.2	2.2	1.1	1.1	0.0	94.9	98.1	101.4	102.4
10°	3.2	3.2	3.2	2.2	2.2	99.2	116.5	112.1	104.6	101.4	102.4
12.5°	117.5	114.3	36.7	7.5	90.6	108.9	89.5	74.4	66.9	61.5	61.5
15°	256.6	246.9	206.0	157.4	147.7	84.1	57.1	48.5	71.2	86.3	86.3
17.5°	272.8	260.9	230.8	228.6	149.9	73.3	59.3	76.6	80.9	85.2	85.2
20°	528.4	473.4	325.6	218.9	110.0	89.5	74.4	73.3	76.6	81.9	83.0
22.5°	566.1	539.1	409.7	265.3	100.3	97.0	86.3	81.9	110.0	119.7	119.7
25°	719.2	693.3	441.0	211.3	121.8	99.2	108.9	102.4	104.6	113.2	113.2
27.5°	919.8	872.3	579.0	177.9	113.2	107.8	111.1	102.4	120.8	143.4	143.4
30°	1019.0	924.1	554.2	157.4	115.4	117.5	106.7	125.1	125.1	133.7	134.8
32.5°	1359.7	1293.9	624.3	132.6	115.4	107.8	116.5	118.6	116.5	151.0	152.0
35°	1447.1	1368.3	534.8	138.0	110.0	104.6	104.6	117.5	125.1	132.6	133.7
37.5°	1553.8	1451.4	420.5	129.4	114.3	101.4	96.0	100.3	110.0	129.4	130.5
40°	1689.7	1541.9	323.5	121.8	106.7	92.7	87.3	91.7	91.7	97.0	98.1
42.5°	1873.0	1649.8	239.4	116.5	100.3	85.2	76.6	71.2	67.9	66.9	67.9
45°	2124.2	1787.8	179.0	111.1	96.0	75.5	63.6	51.8	43.1	43.1	44.2
47.5°	2422.9	1942.0	145.6	102.4	89.5	64.7	48.5	33.4	27.0	28.0	29.1
50°	2741.0	2104.8	127.2	94.9	81.9	52.8	32.3	20.5	17.3	18.3	19.4
52.5°	3035.4	2210.5	119.7	87.3	72.2	41.0	20.5	14.0	12.9	12.9	14.0
55°	3330.8	2290.3	113.2	79.8	58.2	27.0	11.9	10.8	10.8	9.7	9.7
57.5°	3605.8	2337.7	102.4	69.0	41.0	16.2	8.6	8.6	7.5	7.5	7.5
60°	3858.1	2332.3	81.9	51.8	25.9	9.7	6.5	6.5	5.4	5.4	5.4
62.5°	4115.8	2308.6	58.2	36.7	17.3	6.5	4.3	4.3	3.2	2.2	3.2
65°	4271.1	2241.7	38.8	25.9	10.8	4.3	3.2	2.2	1.1	0.0	1.1
67.5°	4206.4	2047.7	29.1	19.4	7.5	3.2	2.2	1.1	0.0	0.0	0.0
68°	4147.1	1986.2	27.0	18.3	6.5	3.2	2.2	1.1	0.0	0.0	0.0
70°	3680.2	1655.2	23.7	15.1	5.4	3.2	2.2	1.1	0.0	0.0	0.0
72.5°	2455.2	1075.0	19.4	11.9	4.3	2.2	2.2	1.1	0.0	0.0	0.0
75°	1132.2	345.1	15.1	9.7	3.2	2.2	2.2	1.1	0.0	0.0	0.0
77.5°	301.9	73.3	9.7	6.5	3.2	2.2	2.2	1.1	1.1	1.1	0.0
80°	72.2	22.6	6.5	5.4	3.2	2.2	2.2	1.1	1.1	1.1	0.0
82.5°	27.0	11.9	4.3	4.3	3.2	2.2	2.2	1.1	2.2	2.2	0.0
85°	11.9	7.5	4.3	4.3	3.2	2.2	2.2	2.2	2.2	3.2	0.0
87.5°	5.4	5.4	4.3	4.3	4.3	2.2	3.2	3.2	3.2	3.2	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)