

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: P416236

Luminaire Tested: **LXF.LXT-PA1-70-727-U-T2R-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/26/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: LXF.LXT-PA1-70-727-U-T2R-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5554 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B0 - U0 - G1

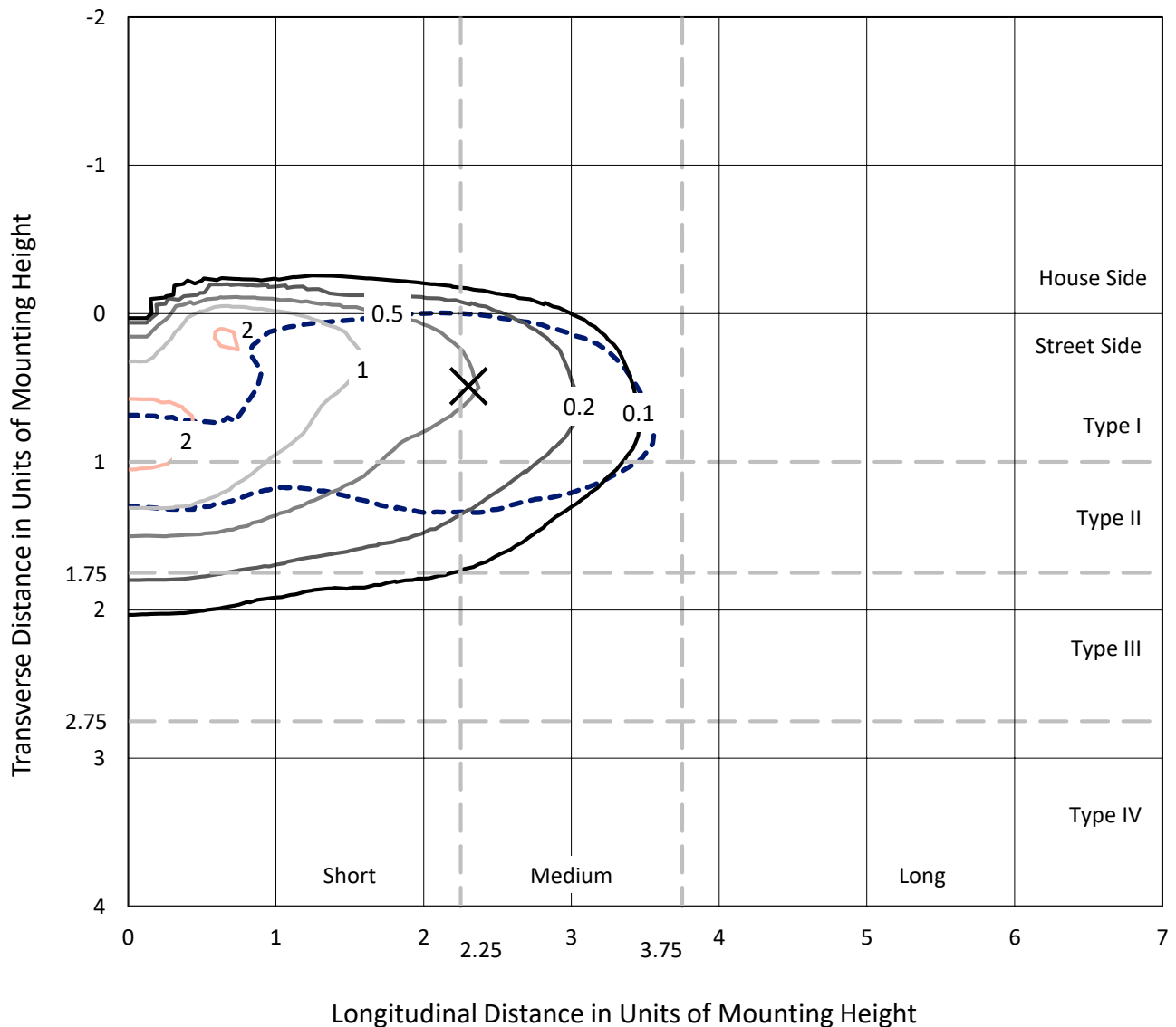
Input Watts (W): 74  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

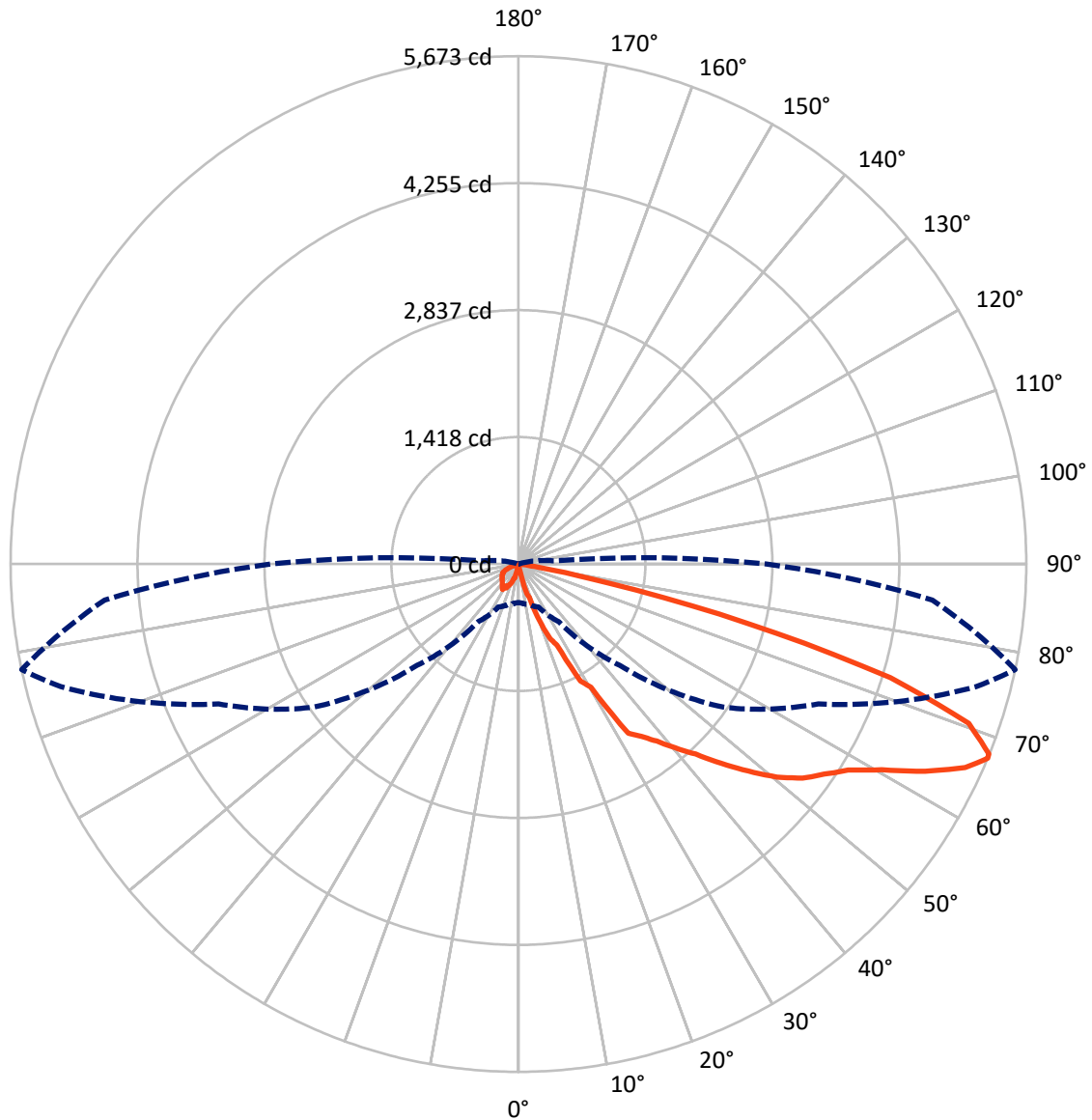
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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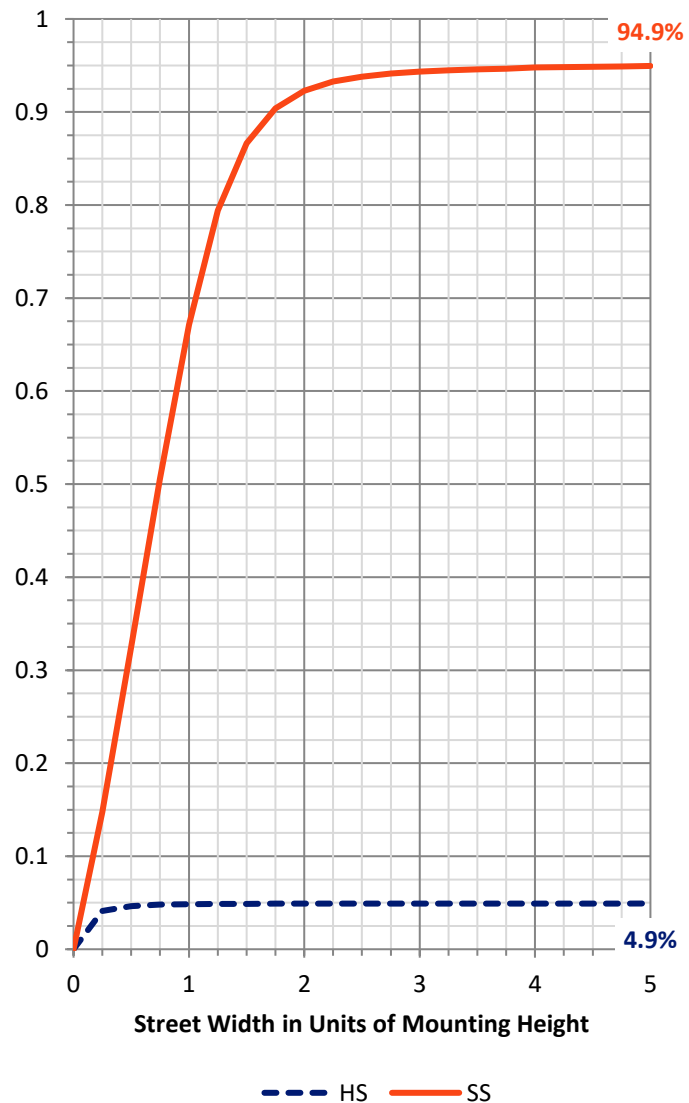
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	275.0	0.0	275.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5279.0	0.0	5279.0
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5554.0	0.0	5554.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.3	0.1
10°-20°	75.7	1.4
20°-30°	301.6	5.4
30°-40°	767.2	13.8
40°-50°	1256.1	22.6
50°-60°	1416.4	25.5
60°-70°	1221.4	22.0
70°-80°	491.3	8.8
80°-90°	19.3	0.3
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°	5554.0	100.0
0°-180°	5554.0	100.0

**Coefficient of Utilization**



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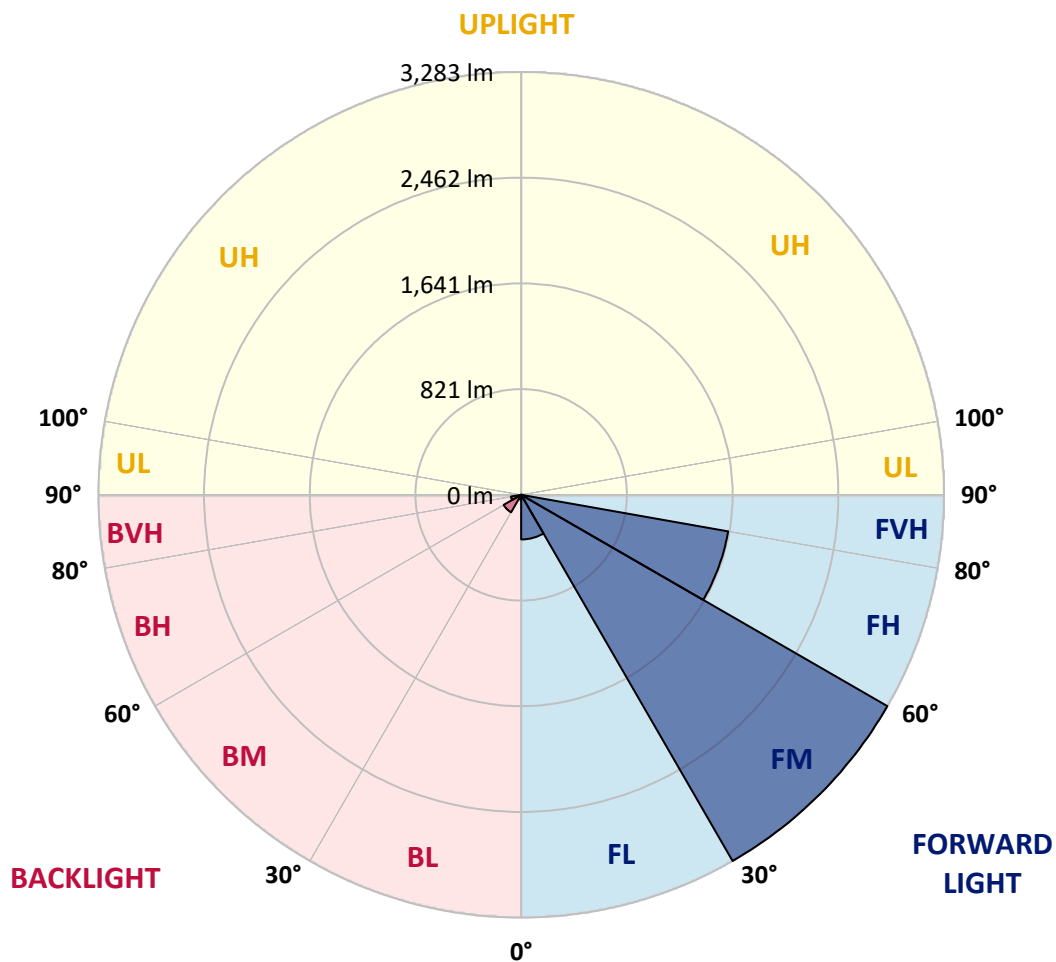
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	346.4	6.2			
FM (30°-60°)	3283.0	59.1			
FH (60°-80°)	1632.3	29.4			G1/1800
FVH (80°-90°)	17.3	0.3			G1/100
BL (0°-30°)	36.1	0.6	B0/110		
BM (30°-60°)	156.6	2.8	B0/220		
BH (60°-80°)	80.4	1.4	B0/110		G0/110
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: B0-U0-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	0.8	0.8	1.5	1.5	3.1	3.1	2.3	2.3	2.3	2.3	2.3
5°	232.6	182.1	129.3	37.5	14.5	6.9	3.1	2.3	2.3	2.3	1.5
7.5°	259.4	257.1	254.0	252.5	247.9	240.2	16.8	3.1	2.3	2.3	2.3
10°	277.7	273.1	272.4	271.6	268.6	262.4	251.0	14.5	2.3	2.3	2.3
12.5°	557.8	555.5	546.3	319.8	287.7	281.6	271.6	195.1	15.3	128.5	139.3
15°	550.9	549.4	555.5	567.7	579.2	309.1	441.5	557.0	342.0	327.5	341.2
17.5°	570.0	569.2	559.3	569.2	586.8	684.8	630.5	607.5	379.5	396.3	364.2
20°	853.9	852.3	860.8	809.5	609.0	853.1	791.9	658.0	745.2	684.8	687.8
22.5°	896.7	899.8	897.5	915.1	1057.4	881.4	985.5	1023.0	1035.2	906.7	782.7
25°	1316.0	1296.9	1257.1	971.7	1140.0	1093.4	1251.7	1105.6	1113.2	1003.1	1003.1
27.5°	1474.4	1474.4	1441.5	1404.0	1209.7	1404.0	1317.5	1452.2	1583.8	1479.7	1256.3
30°	2000.8	1985.5	1653.4	1606.0	1505.8	1485.9	1590.7	1704.7	1646.5	1597.6	1413.2
32.5°	2378.8	2380.3	2296.1	2039.0	1790.4	1657.2	1842.4	1880.7	2195.1	2252.5	1915.9
35°	3035.2	2997.0	2585.3	2352.0	2107.1	2018.4	2009.2	2202.8	2383.3	2363.5	2076.5
37.5°	3452.2	3425.4	3226.5	2702.4	2388.7	2189.8	2309.1	2318.3	2610.6	2510.4	2268.6
40°	3643.5	3631.3	3462.9	3017.6	2635.8	2423.9	2462.2	2492.0	2838.6	2700.9	2430.0
42.5°	3798.1	3786.6	3633.5	3176.0	2873.0	2648.1	2634.3	2639.7	3023.0	2902.1	2593.0
45°	3872.3	3865.4	3799.6	3316.0	2976.3	2793.4	2821.8	2787.3	3183.7	3176.0	2773.6
47.5°	3800.3	3804.2	3822.5	3440.0	3052.1	2908.2	3003.9	2948.8	3374.9	3455.3	2977.1
50°	3547.1	3545.6	3650.4	3458.3	3095.7	3000.0	3164.5	3101.0	3602.2	3741.4	3160.7
52.5°	2767.4	2869.2	3248.7	3260.9	3085.7	3045.9	3285.4	3276.2	3816.4	3974.0	3344.3
55°	2082.7	2124.0	2484.3	2828.6	2957.2	3040.6	3328.3	3394.1	3974.8	4143.9	3488.2
57.5°	1636.6	1622.8	1820.2	2280.1	2632.8	2950.3	3318.3	3440.0	4129.3	4342.8	3677.9
60°	1197.4	1209.7	1366.5	1653.4	2165.3	2745.2	3287.7	3514.2	4374.2	4664.2	3960.3
62.5°	868.4	868.4	976.3	1151.5	1658.8	2416.2	3221.2	3618.2	4757.5	5100.3	4296.1
65°	584.6	580.7	661.1	750.6	1136.2	1999.3	3042.1	3715.4	5124.8	5483.6	4584.6
67°	430.0	438.4	471.3	530.2	785.8	1601.4	2786.6	3696.3	5293.9	5673.4	4641.2
67.5°	402.5	406.3	451.4	503.4	724.6	1495.8	2713.9	3673.3	5312.2	5668.8	4612.1
70°	292.3	298.4	322.9	338.2	438.4	987.0	2166.1	3312.2	5044.4	5336.7	4193.6
72.5°	156.8	169.9	234.9	233.4	272.4	602.1	1472.9	2458.3	4146.2	4344.3	3218.9
75°	122.4	123.9	140.0	172.9	176.0	335.1	708.5	1428.5	2622.8	2637.4	1787.3
77.5°	89.5	93.3	103.3	109.4	114.8	190.5	247.9	567.7	1161.5	1014.5	669.5
80°	60.4	62.7	68.1	81.1	94.1	107.9	80.3	151.5	273.1	211.9	100.2
82.5°	26.0	25.2	47.4	68.1	67.3	44.4	40.6	47.4	54.3	49.7	30.6
85°	1.5	2.3	24.5	32.9	28.3	19.1	25.2	19.9	20.7	19.9	15.3
87.5°	0.8	0.8	2.3	3.1	3.8	3.8	4.6	4.6	6.1	6.9	6.1
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	2.3	2.3	2.3	2.3	2.3	0.8	0.8	0.0	0.0	0.0	0.0
5°	2.3	2.3	2.3	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0
7.5°	2.3	2.3	2.3	2.3	2.3	0.8	0.0	8.4	23.0	24.5	23.7
10°	2.3	2.3	2.3	2.3	1.5	19.9	27.5	26.0	25.2	24.5	24.5
12.5°	139.3	117.8	21.4	4.6	19.9	25.2	22.2	22.2	21.4	21.4	21.4
15°	304.5	255.5	120.1	40.6	31.4	21.4	19.9	19.9	32.9	36.0	35.2
17.5°	319.1	257.8	117.8	55.1	45.1	27.5	27.5	35.2	34.4	32.9	32.9
20°	606.7	397.9	136.2	54.3	41.3	43.6	32.9	30.6	29.1	27.5	27.5
22.5°	648.8	467.5	146.1	68.9	44.4	43.6	33.7	28.3	36.0	35.2	35.2
25°	837.8	564.7	132.4	64.3	57.4	39.8	36.0	31.4	30.6	29.1	29.1
27.5°	1038.3	667.9	146.1	66.6	52.0	39.0	33.7	27.5	29.1	32.1	32.1
30°	1138.5	668.7	115.5	68.1	49.7	39.8	29.8	30.6	29.1	28.3	27.5
32.5°	1527.9	858.5	110.9	65.0	46.7	34.4	30.6	26.8	24.5	26.8	26.8
35°	1596.8	828.6	96.4	65.8	42.1	31.4	26.0	24.5	24.5	23.7	23.7
37.5°	1672.5	796.5	84.9	58.1	40.6	28.3	22.2	22.2	21.4	23.0	23.0
40°	1755.9	762.8	75.7	50.5	34.4	23.7	19.9	19.1	19.9	19.9	19.1
42.5°	1853.1	729.9	68.1	44.4	29.1	19.9	16.1	16.1	16.1	15.3	15.3
45°	1957.2	703.9	62.7	38.3	24.5	16.8	13.0	12.2	11.5	11.5	11.5
47.5°	2080.4	693.2	58.1	32.1	20.7	13.0	9.9	9.2	8.4	7.7	7.7
50°	2183.6	688.6	51.3	26.8	17.6	10.7	6.9	6.1	5.4	4.6	4.6
52.5°	2274.7	668.7	44.4	21.4	13.8	7.7	4.6	3.1	2.3	2.3	2.3
55°	2365.0	650.4	38.3	18.4	9.9	4.6	2.3	0.8	0.8	1.5	1.5
57.5°	2476.7	629.7	32.9	15.3	7.7	3.1	1.5	0.0	0.8	0.8	1.5
60°	2651.9	608.3	29.1	13.0	5.4	2.3	0.8	0.0	0.0	0.8	0.8
62.5°	2808.8	570.8	25.2	11.5	4.6	2.3	0.8	0.0	0.0	0.0	0.8
65°	2876.8	493.5	22.2	9.9	4.6	2.3	0.8	0.0	0.0	0.0	0.0
67°	2762.8	399.4	19.9	9.2	3.8	1.5	0.8	0.0	0.0	0.0	0.0
67.5°	2709.3	372.6	19.9	8.4	3.8	1.5	0.8	0.8	0.0	0.0	0.0
70°	2299.9	247.1	17.6	7.7	3.8	1.5	1.5	0.8	0.0	0.0	0.0
72.5°	1765.1	143.8	15.3	6.9	3.8	1.5	1.5	0.8	0.8	0.0	0.0
75°	987.0	72.7	12.2	6.9	3.8	2.3	2.3	1.5	1.5	1.5	0.0
77.5°	316.0	39.8	9.2	6.1	3.8	2.3	2.3	1.5	2.3	2.3	0.8
80°	49.7	20.7	6.9	4.6	3.8	1.5	2.3	2.3	3.1	3.1	0.8
82.5°	18.4	11.5	5.4	4.6	3.8	1.5	2.3	2.3	3.1	3.8	0.0
85°	8.4	6.9	5.4	4.6	3.8	1.5	2.3	2.3	3.1	3.8	0.0
87.5°	3.8	5.4	4.6	4.6	3.8	1.5	2.3	2.3	3.1	3.1	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)