

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: P266000

Luminaire Tested: **LXF.LXT-AF24-20-D-U-SL3-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
 Report Number: P266000  
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-15-90°)  
 Test Lab: INNOVATION CENTER(G2)  
 Issue Date: 3/3/2020  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: LXF.LXT-AF24-20-D-U-SL3-7027-HSS  
 Description: DECORATIVE POST TOP LUMINAIRE  
 (1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
 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: 1694 lumens  
 Efficiency: N/A  
 Efficacy: 80.7 lumens/watt  
 Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
 IES Classification: Type III - Medium - Non-Cutoff  
 BUG Rating: B0 - U0 - G1

Input Watts (W): 21  
 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





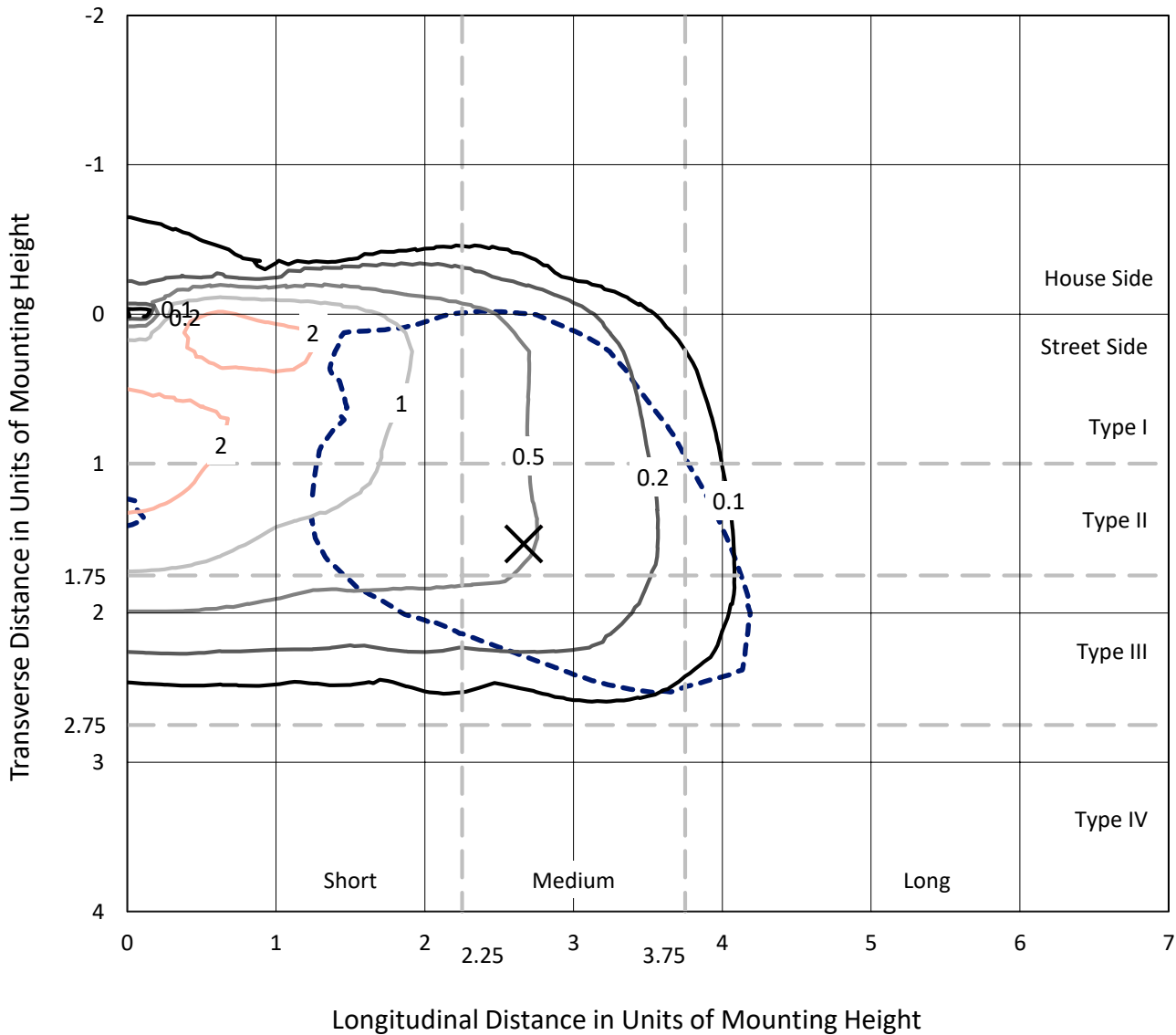
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

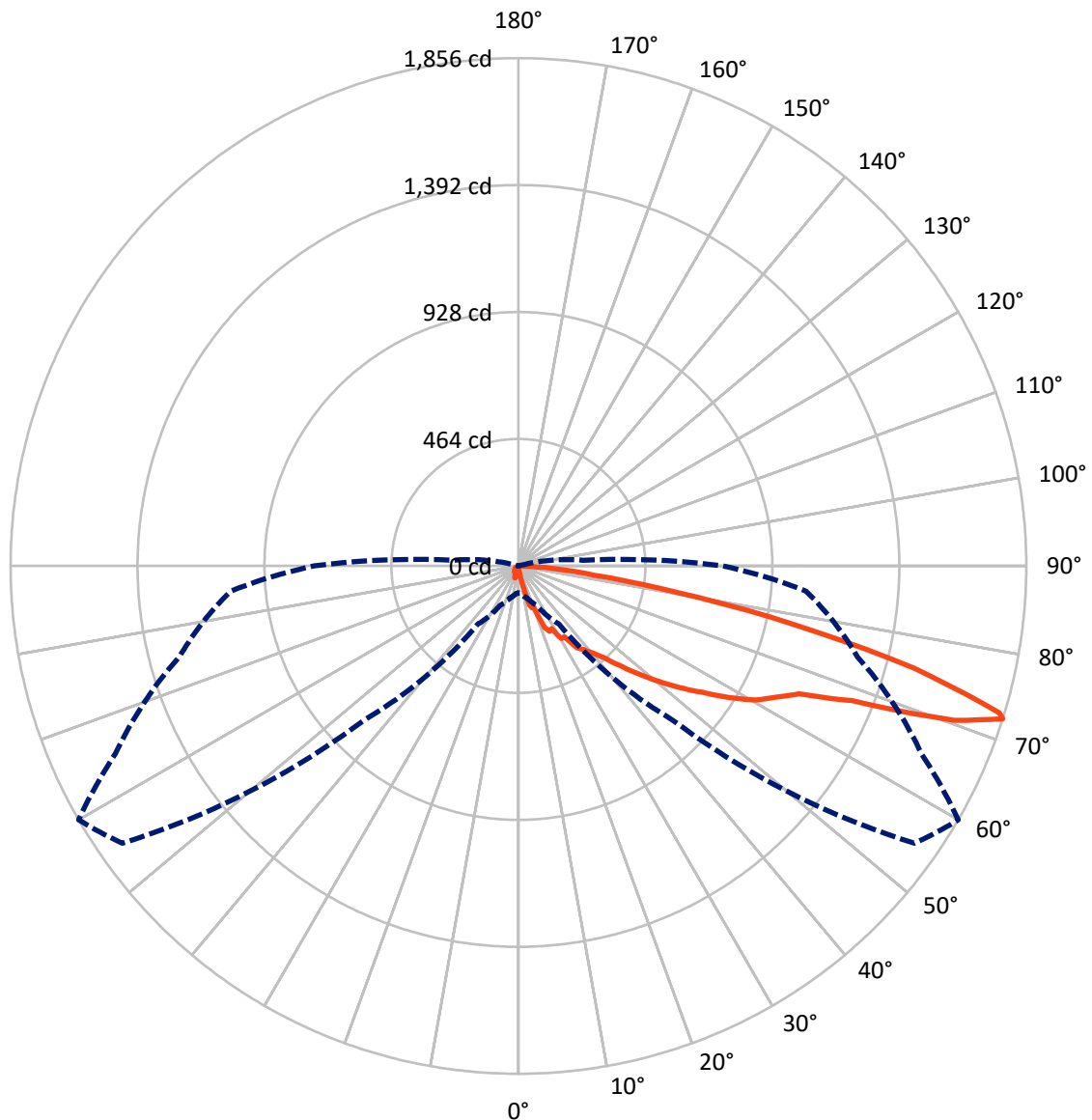
--- 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc  
Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical



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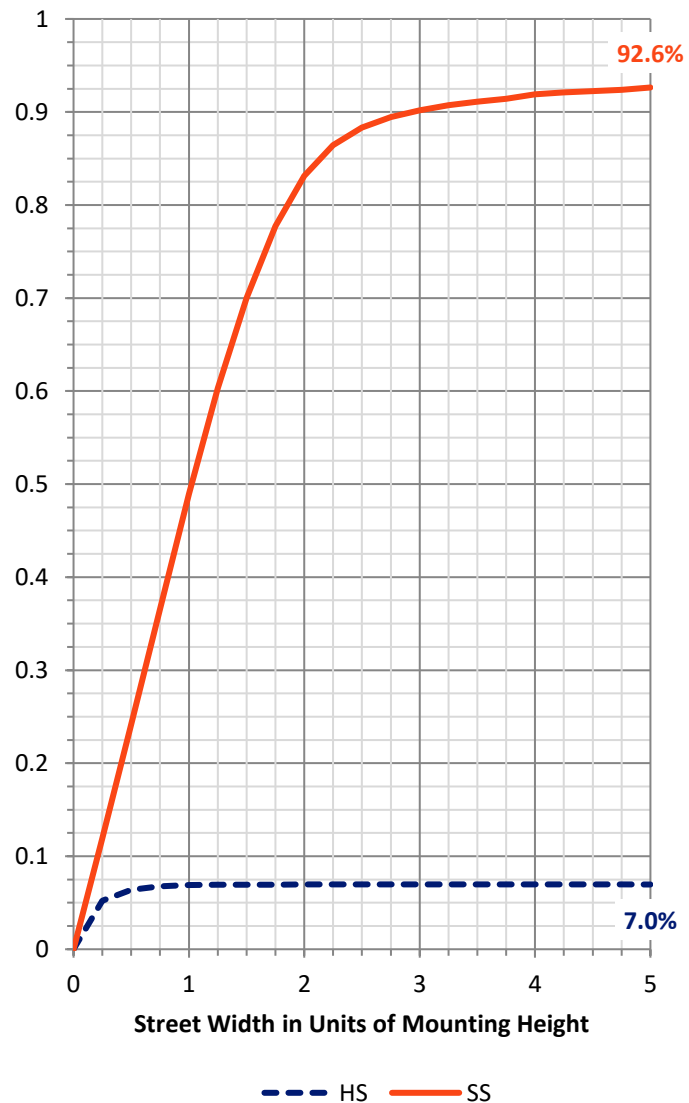
**FLUX DISTRIBUTION:**

		<b>Downward</b>	<b>Upward</b>	<b>Total</b>
<b>House Side</b>	Lumens	118.7	0.0	118.7
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	1575.3	0.0	1575.3
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	1694.0	0.0	1694.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

<b>Zone</b>	<b>Lumens</b>	<b>% Fixture</b>
0°-10°	2.0	0.1
10°-20°	22.8	1.3
20°-30°	69.9	4.1
30°-40°	146.4	8.6
40°-50°	258.7	15.3
50°-60°	396.4	23.4
60°-70°	460.5	27.2
70°-80°	306.3	18.1
80°-90°	31.1	1.8
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°	1694.0	100.0
0°-180°	1694.0	100.0

**Coefficient of Utilization**





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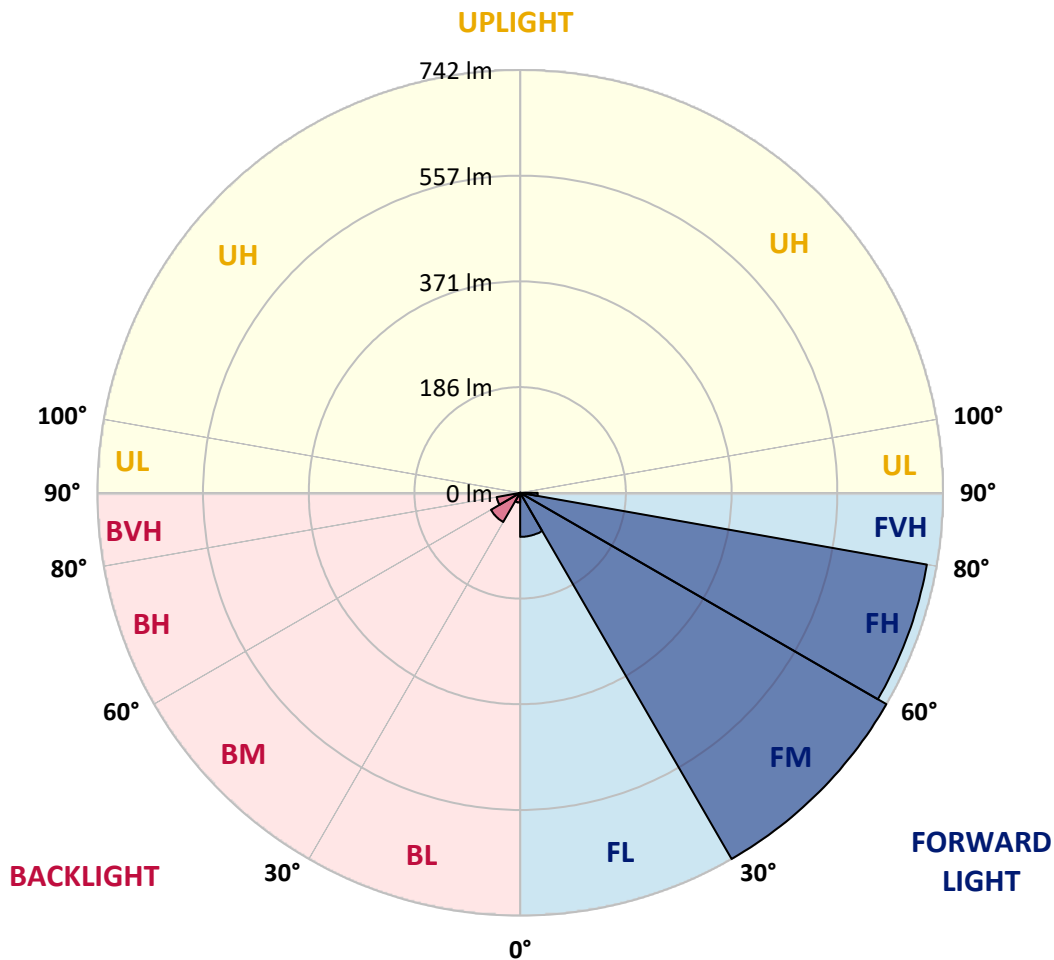
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	77.4	4.6			
FM	(30°-60°)	742.2	43.8			
FH	(60°-80°)	724.9	42.8			G1/1800
FVH	(80°-90°)	30.8	1.8			G1/100
BL	(0°-30°)	17.2	1.0	B0/110		
BM	(30°-60°)	59.3	3.5	B0/220		
BH	(60°-80°)	41.9	2.5	B0/110		G0/110
BVH	(80°-90°)	0.3	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
5°	39.0	44.1	14.2	8.9	5.7	1.2	0.0	0.0	0.2	0.2	0.0
7.5°	86.1	85.6	85.3	86.1	87.0	80.6	6.6	2.2	0.2	0.2	0.0
10°	82.3	82.0	81.7	82.7	83.7	84.7	85.9	35.8	4.9	0.2	0.2
12.5°	154.0	154.0	146.8	90.9	82.7	82.3	82.7	71.2	49.1	4.9	50.1
15°	146.8	146.8	147.2	150.8	152.5	84.7	118.7	145.3	163.0	108.7	118.4
17.5°	147.5	147.1	140.8	143.6	147.2	171.2	166.1	160.9	163.0	112.0	118.4
20°	200.7	200.7	200.2	163.5	143.2	199.6	180.1	161.2	165.2	232.4	220.7
22.5°	196.4	195.7	194.8	195.9	227.1	190.9	201.4	242.5	245.1	275.2	230.8
25°	265.0	261.3	212.0	194.9	222.8	197.5	257.4	264.6	250.5	275.8	270.5
27.5°	287.1	282.0	268.7	260.1	223.0	254.4	249.9	259.7	302.2	372.6	334.1
30°	378.5	359.7	294.7	286.7	264.7	255.2	276.3	307.8	335.2	371.4	347.3
32.5°	449.2	431.9	395.4	341.3	309.3	270.3	306.1	308.4	330.7	469.4	442.7
35°	557.0	526.3	437.5	403.3	358.1	331.1	316.4	367.1	393.9	491.8	463.0
37.5°	576.1	573.2	545.1	462.1	409.4	368.8	375.3	387.8	410.3	527.8	493.4
40°	586.4	590.6	595.1	530.0	468.3	425.8	414.7	418.7	437.7	566.4	528.6
42.5°	625.7	631.7	640.3	583.7	539.6	489.4	473.3	458.0	475.1	615.9	578.0
45°	707.0	706.0	709.4	632.9	598.6	549.9	540.8	519.0	525.7	666.5	637.0
47.5°	814.9	805.1	778.7	689.7	645.8	609.6	607.3	588.7	580.8	726.5	706.2
50°	905.0	889.1	830.8	743.3	690.0	668.9	677.5	662.1	648.9	796.0	782.1
52.5°	929.9	919.1	855.5	771.7	724.9	730.5	748.9	738.6	718.7	862.0	856.9
55°	914.5	906.3	864.0	790.1	750.7	788.5	823.2	815.8	796.3	923.7	912.0
57.5°	872.7	868.3	860.9	808.5	769.6	842.5	908.5	907.2	881.2	967.8	947.5
60°	787.4	787.0	811.1	805.3	803.4	899.4	995.4	995.4	951.8	1000.1	974.7
62.5°	629.1	637.2	696.8	750.9	821.4	980.6	1067.6	1056.9	1004.6	1031.7	1014.8
65°	390.9	408.9	506.0	641.0	778.7	1090.6	1174.7	1126.5	1066.9	1082.7	1103.6
67.5°	192.5	206.3	259.0	418.3	674.4	1128.8	1440.1	1313.7	1202.9	1186.7	1210.3
70°	127.7	133.0	148.8	215.1	435.5	1040.5	1746.6	1690.3	1444.4	1294.7	1207.2
72°	98.5	101.5	121.8	159.0	259.7	794.2	1767.1	1856.2	1625.8	1282.8	1055.1
72.5°	87.6	90.9	115.2	152.7	238.9	708.9	1732.4	1837.9	1650.1	1259.1	1000.1
75°	56.4	58.3	83.5	125.5	200.1	322.3	1373.1	1496.1	1468.9	1018.5	669.7
77.5°	14.5	15.1	24.4	96.7	173.6	207.1	862.0	1029.9	970.0	604.3	271.2
80°	9.2	9.2	11.9	29.6	147.2	199.8	427.1	587.9	483.0	165.0	46.7
82.5°	4.3	4.3	6.5	14.6	60.1	186.0	218.0	276.5	186.6	26.1	21.6
85°	0.0	0.0	1.4	9.6	16.6	121.4	173.6	147.7	96.7	10.8	12.9
87.5°	0.0	0.0	0.0	0.4	1.9	0.7	31.3	20.1	3.7	1.2	1.4
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.1	41.7	42.8	42.8
10°	0.2	0.0	0.0	0.0	0.0	37.6	38.5	34.8	30.7	29.7	29.7
12.5°	43.4	17.4	4.5	0.7	27.4	32.9	24.3	18.8	14.5	13.5	13.5
15°	108.9	98.5	72.9	53.2	29.0	20.7	11.5	11.0	17.2	18.8	18.8
17.5°	106.4	94.2	68.6	57.9	33.1	14.6	14.8	17.4	17.7	17.7	18.0
20°	202.2	174.4	101.9	48.5	21.3	22.1	18.0	16.3	16.6	17.2	18.2
22.5°	201.7	170.3	93.8	46.5	21.1	22.3	19.0	20.1	23.7	24.3	24.3
25°	237.2	170.5	86.9	32.3	26.9	22.5	24.8	21.3	22.1	22.1	22.1
27.5°	288.3	229.7	98.1	28.2	24.0	23.0	22.5	20.1	24.0	25.2	25.2
30°	287.9	222.2	79.1	27.6	22.5	22.5	19.5	20.9	20.7	20.4	20.1
32.5°	373.6	276.8	73.1	26.0	22.1	19.1	18.8	16.6	15.8	17.7	17.4
35°	376.3	266.6	52.0	27.6	20.4	18.2	15.6	14.2	13.5	13.1	12.9
37.5°	386.8	260.1	39.0	25.4	20.7	16.6	13.1	11.3	10.8	11.9	11.8
40°	407.4	258.7	32.9	23.7	19.0	14.5	10.8	9.6	9.3	9.2	9.2
42.5°	439.4	262.8	29.6	22.3	17.2	12.4	8.9	7.6	7.1	6.9	6.9
45°	481.3	273.7	27.8	20.9	15.6	10.2	6.9	5.7	5.5	5.5	5.5
47.5°	531.8	289.8	26.4	19.7	13.7	8.2	5.5	4.5	4.3	4.1	4.3
50°	592.6	310.5	25.0	19.0	11.9	6.6	4.3	3.4	3.4	3.1	3.1
52.5°	650.0	334.6	23.4	19.0	9.8	5.3	3.4	2.3	2.3	2.2	2.3
55°	699.5	352.0	22.1	18.4	7.9	4.1	2.2	1.6	1.4	1.6	1.6
57.5°	737.4	364.7	20.4	15.4	6.0	2.9	1.4	1.0	1.0	1.0	1.2
60°	768.1	375.0	18.0	11.5	4.3	1.6	0.7	0.4	0.4	0.4	0.7
62.5°	821.0	397.0	14.5	8.4	3.1	1.0	0.4	0.0	0.0	0.2	0.4
65°	905.0	428.0	10.6	6.0	1.9	0.7	0.2	0.0	0.0	0.0	0.2
67.5°	971.0	423.0	6.9	4.1	1.2	0.4	0.2	0.0	0.0	0.0	0.2
70°	907.9	349.4	4.5	2.6	0.7	0.2	0.0	0.0	0.0	0.0	0.2
72°	746.5	237.6	3.4	1.6	0.7	0.2	0.0	0.0	0.0	0.0	0.0
72.5°	695.5	207.7	3.1	1.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0
75°	412.1	82.6	2.6	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	130.0	23.0	3.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.9	6.5	3.4	0.4	0.4	0.0	0.0	0.0	0.0	0.2	0.0
82.5°	12.7	2.6	1.2	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.0
85°	8.4	1.6	0.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0	0.0	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)