

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: P254202

Luminaire Tested: **LXF.LXT-AF24-20-D-U-T2U-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P254202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-17-90°)  
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-T2U-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 4000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U 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: 1691 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B0 - U0 - G0  
  
Input Watts (W): 21  
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

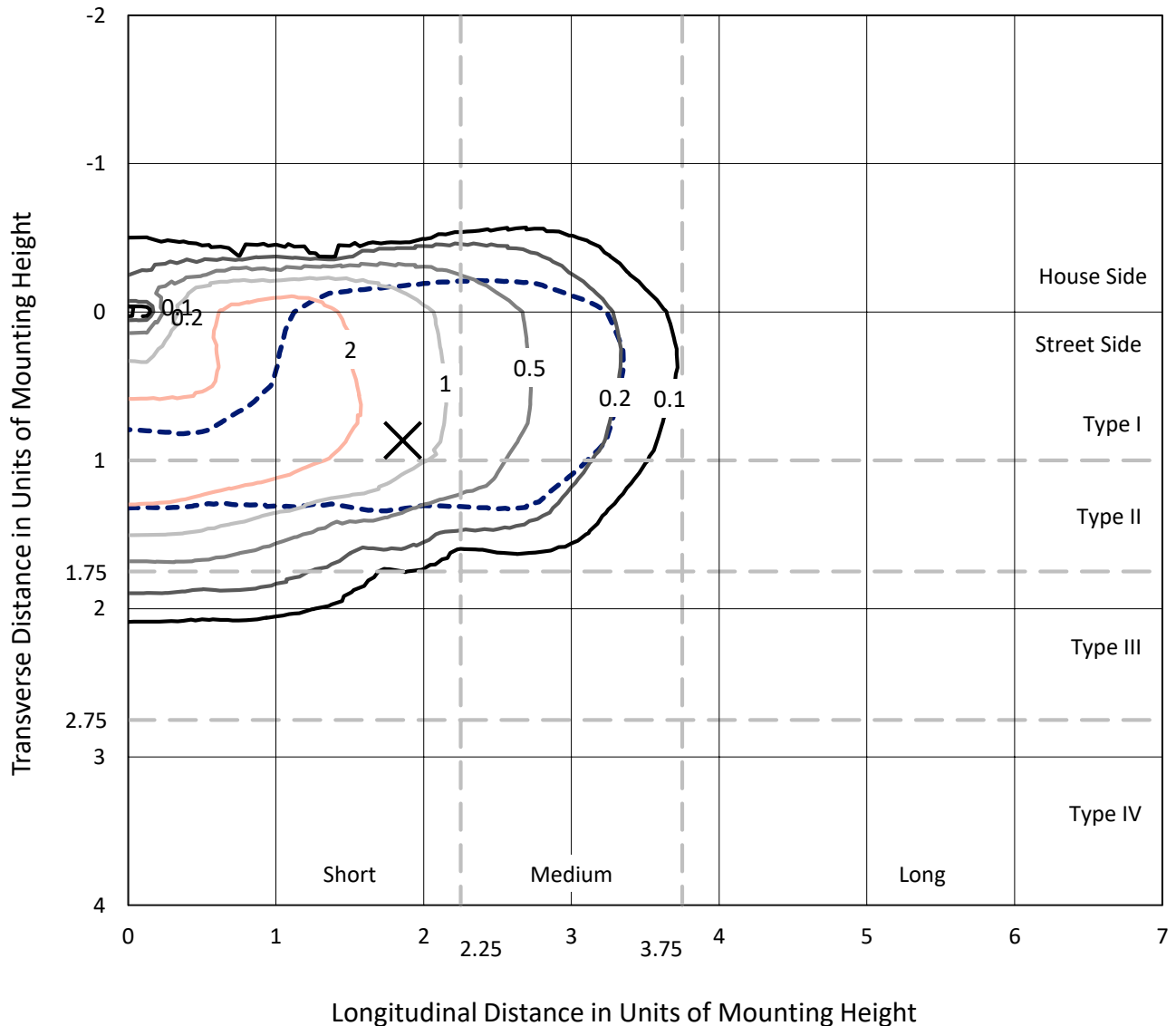


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

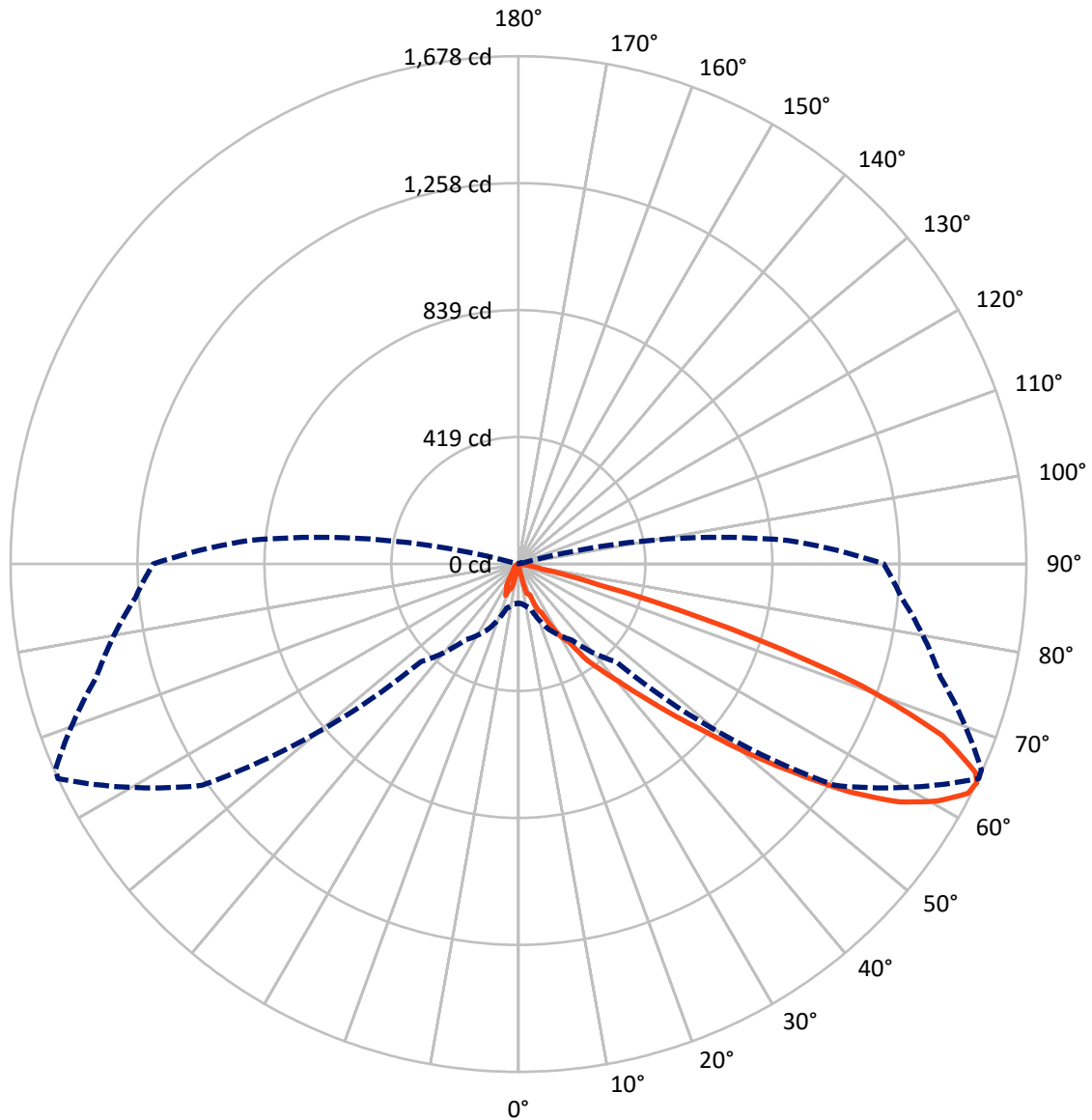


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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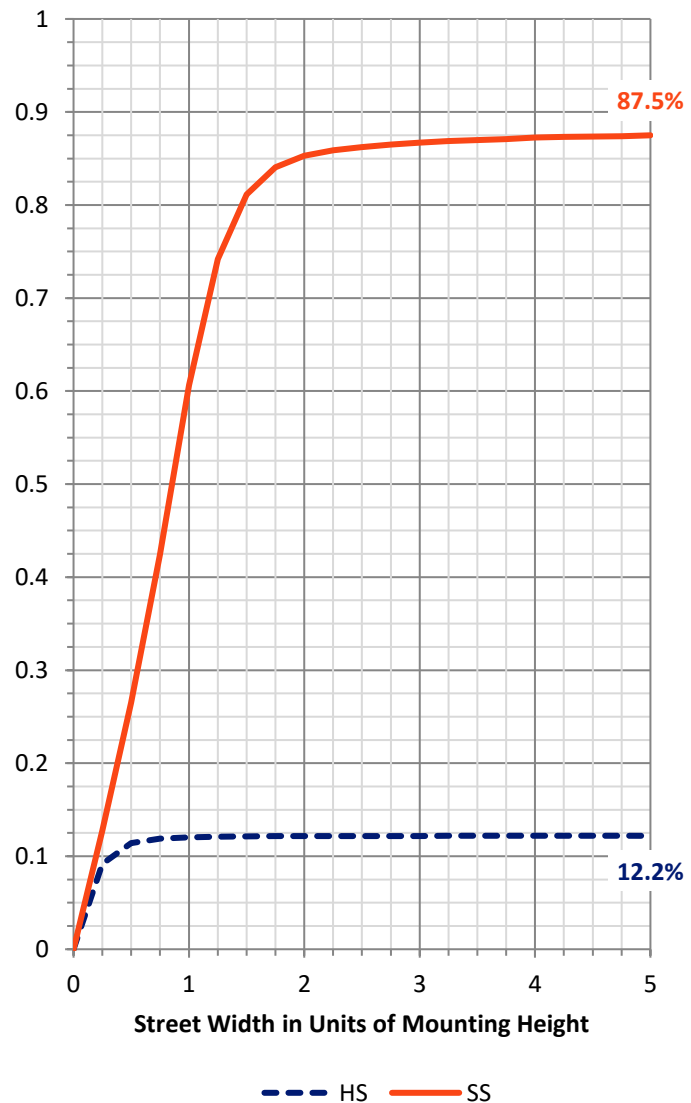
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	208.5	0.0	208.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	1482.5	0.0	1482.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	1691.0	0.0	1691.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.3	0.1
10°-20°	16.9	1.0
20°-30°	57.4	3.4
30°-40°	161.0	9.5
40°-50°	373.9	22.1
50°-60°	522.6	30.9
60°-70°	412.3	24.4
70°-80°	138.1	8.2
80°-90°	7.5	0.4
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°	1691.0	100.0
0°-180°	1691.0	100.0



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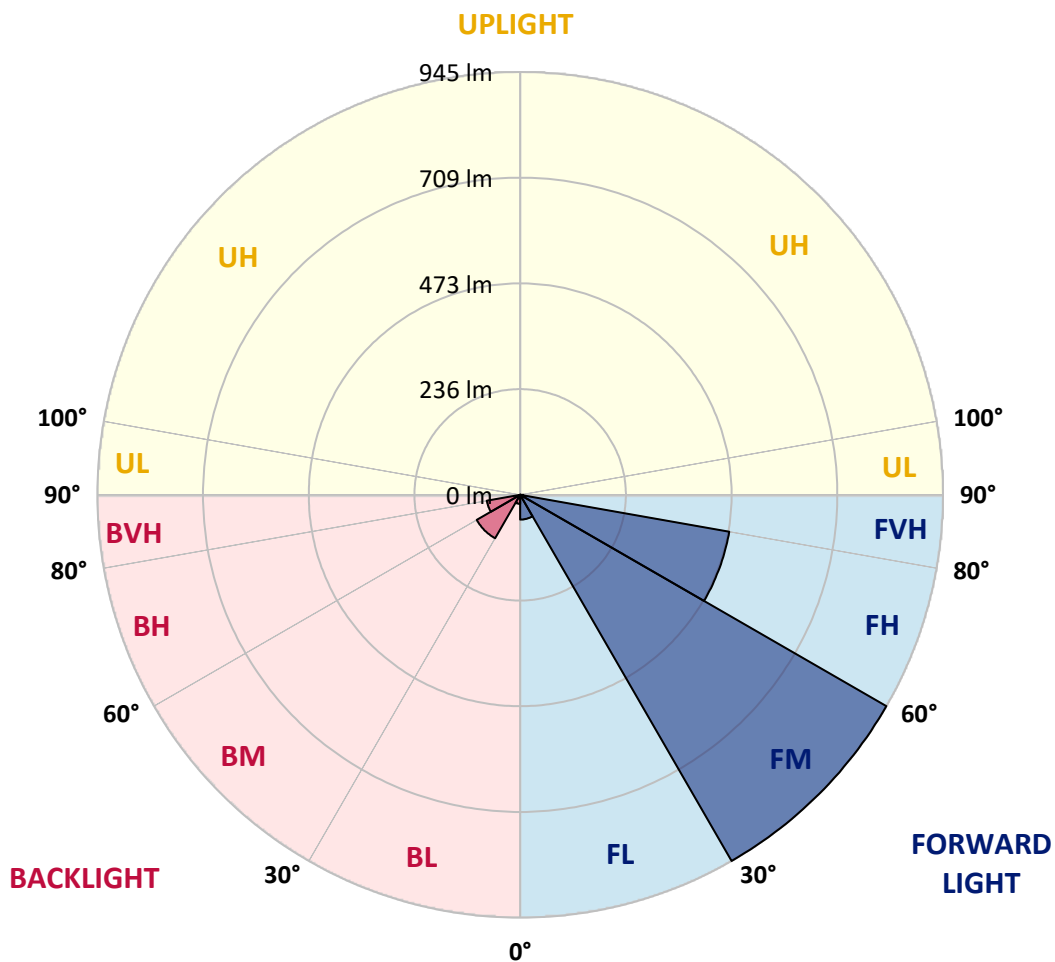
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	55.4	3.3			
FM (30°-60°)	945.3	55.9			
FH (60°-80°)	474.6	28.1			G0/660
FVH (80°-90°)	7.2	0.4			G0/10
BL (0°-30°)	20.2	1.2	B0/110		
BM (30°-60°)	112.2	6.6	B0/220		
BH (60°-80°)	75.7	4.5	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	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	0.0	0.0
5°	33.3	13.8	10.4	6.4	1.9	0.6	0.3	0.0	0.0	0.0	0.0
7.5°	48.0	47.7	47.7	48.3	48.8	44.6	3.4	0.3	0.0	0.0	0.0
10°	45.7	45.4	45.4	46.3	47.2	48.0	48.3	1.7	1.1	0.0	0.0
12.5°	91.5	90.9	87.5	52.2	47.2	47.5	48.6	33.0	19.7	7.4	35.0
15°	90.0	89.8	90.0	92.1	92.1	49.1	73.3	99.1	98.8	64.3	75.4
17.5°	92.3	90.9	90.3	91.8	94.0	108.6	107.5	104.1	104.4	68.3	77.3
20°	133.0	133.2	135.2	103.3	97.4	137.5	121.9	109.6	111.2	131.2	142.3
22.5°	135.2	134.9	137.5	142.3	167.7	141.2	163.5	164.3	168.0	172.0	152.7
25°	186.9	186.6	152.7	149.7	179.2	158.4	195.6	177.8	181.0	181.5	187.2
27.5°	211.4	208.9	210.6	211.4	189.1	222.4	202.6	234.9	224.9	248.7	237.4
30°	269.3	261.4	241.9	245.0	234.1	237.1	245.6	280.6	271.3	263.6	259.4
32.5°	393.7	389.0	369.8	305.1	284.0	258.0	298.1	307.1	308.2	360.8	359.7
35°	575.3	541.4	473.6	426.0	340.1	337.1	330.5	388.1	391.0	411.0	410.7
37.5°	809.9	803.1	706.9	549.0	449.4	395.2	411.3	445.2	434.4	476.5	477.0
40°	952.7	946.2	868.3	732.2	574.2	496.8	477.3	510.0	492.0	564.9	550.8
42.5°	1055.7	1048.9	992.2	865.7	756.5	669.0	581.2	595.1	583.5	648.7	642.5
45°	1117.3	1107.7	1083.4	976.1	906.4	869.4	731.1	700.9	703.7	753.9	747.2
47.5°	1113.9	1099.2	1105.4	1039.9	1033.2	1053.7	917.7	821.1	853.3	880.1	862.7
50°	1025.8	1014.3	1049.2	1057.9	1116.1	1199.1	1115.3	981.2	1021.5	1004.6	968.2
52.5°	862.7	864.9	915.7	975.0	1130.6	1299.4	1305.0	1148.6	1203.4	1117.3	1064.2
55°	689.9	696.1	751.7	823.4	1042.5	1332.1	1463.3	1328.7	1376.4	1210.2	1133.6
57.5°	507.3	517.1	586.9	647.8	857.5	1248.5	1541.5	1483.4	1511.9	1290.0	1188.2
60°	300.6	306.0	398.5	486.9	621.3	1001.0	1538.4	1589.8	1599.4	1372.7	1231.5
62.5°	177.6	180.3	211.4	328.6	409.3	656.3	1421.3	1667.4	1664.5	1425.5	1261.5
64°	129.6	131.6	150.8	238.6	306.0	457.1	1274.5	1677.8	1674.5	1443.3	1270.0
65°	108.4	110.1	123.7	188.3	254.6	349.4	1111.6	1659.2	1657.0	1452.3	1269.4
67.5°	87.0	87.3	91.1	110.4	173.3	183.5	643.6	1510.5	1503.7	1461.6	1248.5
70°	77.9	79.1	86.1	87.0	126.7	120.5	226.4	1203.1	1188.4	1387.6	1199.9
72.5°	61.8	63.5	74.8	85.2	91.5	90.3	103.3	733.7	739.6	1019.6	1005.8
75°	43.2	44.9	56.5	70.6	72.2	66.1	74.5	275.5	271.8	503.6	584.9
77.5°	26.8	27.6	35.3	50.8	67.2	43.8	52.0	79.9	85.5	156.1	159.8
80°	17.8	18.1	22.3	33.6	46.5	39.5	31.1	40.4	41.2	49.1	24.2
82.5°	9.9	10.1	14.1	21.2	27.9	35.0	20.0	24.2	25.7	30.5	13.0
85°	3.4	3.7	7.4	11.9	17.0	17.0	13.0	14.6	14.9	19.2	6.8
87.5°	0.0	0.0	1.7	3.1	2.9	1.1	2.9	2.3	1.9	3.1	1.1
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°	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	0.3	0.0	0.0	0.0	0.0	35.6	39.3	39.5	40.1
10°	0.0	0.0	0.3	0.3	0.0	37.8	40.1	39.3	37.2	36.7	36.1
12.5°	36.1	34.7	4.8	1.1	31.9	39.5	35.6	30.5	25.7	24.2	23.1
15°	74.5	73.7	65.8	72.2	44.9	33.9	25.2	27.1	22.9	21.5	20.9
17.5°	75.7	74.5	70.3	85.0	70.0	34.5	23.1	18.6	17.0	16.4	16.1
20°	143.7	139.4	102.2	83.6	53.6	35.0	17.8	14.9	13.8	15.2	16.1
22.5°	147.9	143.1	123.4	112.1	44.9	22.9	17.0	16.4	17.2	16.4	16.4
25°	186.6	172.5	135.5	92.1	39.8	20.4	19.2	14.9	13.8	13.3	13.3
27.5°	231.8	221.1	187.2	86.3	26.8	21.5	16.7	13.0	14.4	14.4	14.4
30°	247.9	232.9	189.1	75.7	23.7	19.4	14.1	14.1	12.7	12.2	12.2
32.5°	356.0	334.2	242.7	53.1	21.5	16.4	14.1	11.9	11.6	12.4	12.4
35°	396.6	371.2	236.5	39.3	18.9	14.9	12.2	11.6	11.0	11.0	11.0
37.5°	450.8	420.8	217.1	29.1	17.8	12.7	10.7	10.1	10.4	11.0	11.3
40°	521.6	485.5	201.2	24.0	15.2	11.0	9.6	9.9	9.9	9.9	9.9
42.5°	605.2	555.3	177.8	21.5	13.0	9.9	8.8	8.8	9.0	9.0	9.0
45°	701.1	631.5	145.1	18.9	11.3	8.5	7.9	7.9	7.9	7.7	7.9
47.5°	802.8	713.9	110.1	16.7	9.6	7.7	7.1	6.8	6.8	6.4	6.8
50°	903.9	790.6	80.4	14.4	8.5	6.8	5.9	5.9	5.9	5.6	5.6
52.5°	984.6	842.6	57.0	12.4	7.4	5.9	5.1	4.8	4.8	4.5	4.5
55°	1052.3	873.7	41.7	10.4	6.4	5.1	4.2	4.0	4.0	3.7	4.0
57.5°	1104.6	893.1	31.6	8.5	5.6	4.2	3.4	3.1	3.1	3.1	3.1
60°	1148.6	899.6	24.2	7.1	4.8	3.4	2.9	2.6	2.6	2.3	2.6
62.5°	1189.5	897.9	20.0	6.2	4.2	2.9	2.3	1.9	1.7	1.4	1.7
64°	1207.0	893.4	18.1	5.3	4.0	2.6	1.9	1.7	1.4	0.8	1.1
65°	1214.3	886.4	16.7	4.8	3.7	2.3	1.9	1.7	0.8	0.6	0.8
67.5°	1208.1	850.0	13.0	4.2	2.9	1.7	1.4	1.1	0.3	0.3	0.6
70°	1139.0	772.6	9.9	3.7	2.6	1.4	1.1	0.8	0.6	0.3	0.6
72.5°	894.6	555.6	7.7	2.9	1.9	0.8	1.1	0.8	0.6	0.3	0.0
75°	479.9	208.6	5.6	2.3	1.7	0.8	0.8	0.6	0.3	0.3	0.0
77.5°	123.7	65.8	4.0	1.4	1.4	0.6	0.6	0.6	0.3	0.3	0.0
80°	19.2	9.3	1.7	1.1	0.8	0.3	0.6	0.3	0.3	0.6	0.0
82.5°	7.9	3.7	1.1	0.8	0.8	0.0	0.6	0.3	0.3	0.3	0.0
85°	1.9	1.4	0.8	0.6	0.6	0.0	0.3	0.0	0.3	0.3	0.0
87.5°	0.3	0.6	0.6	0.6	0.6	0.0	0.3	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)