

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: P266093

Luminaire Tested: **LXF.LXT-AF24-50-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266093  
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-AF24-50-D-U-T2U-7027-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 670mA 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: 3365.4 lumens  
Efficiency: N/A  
Efficacy: 62.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 54  
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

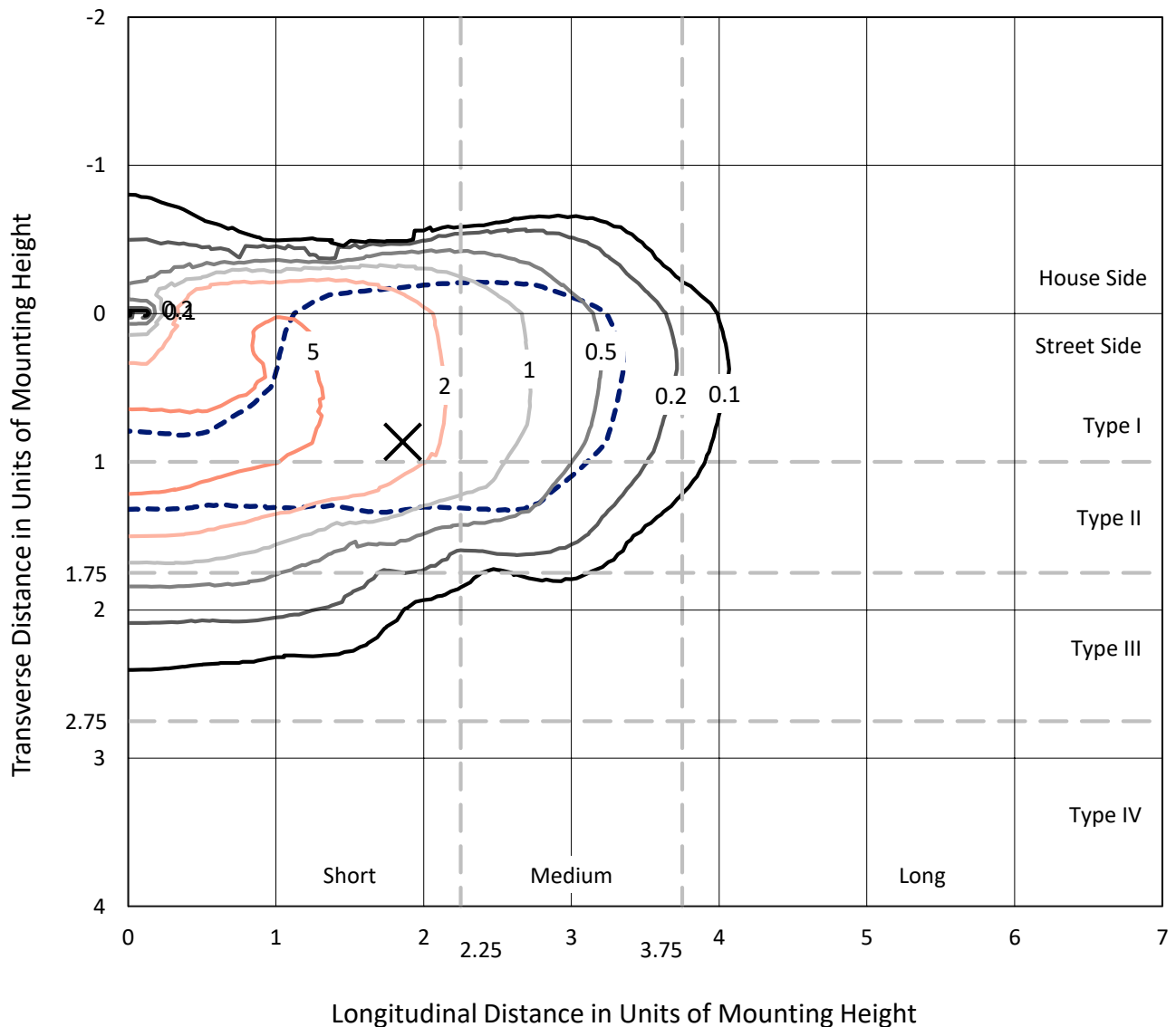


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

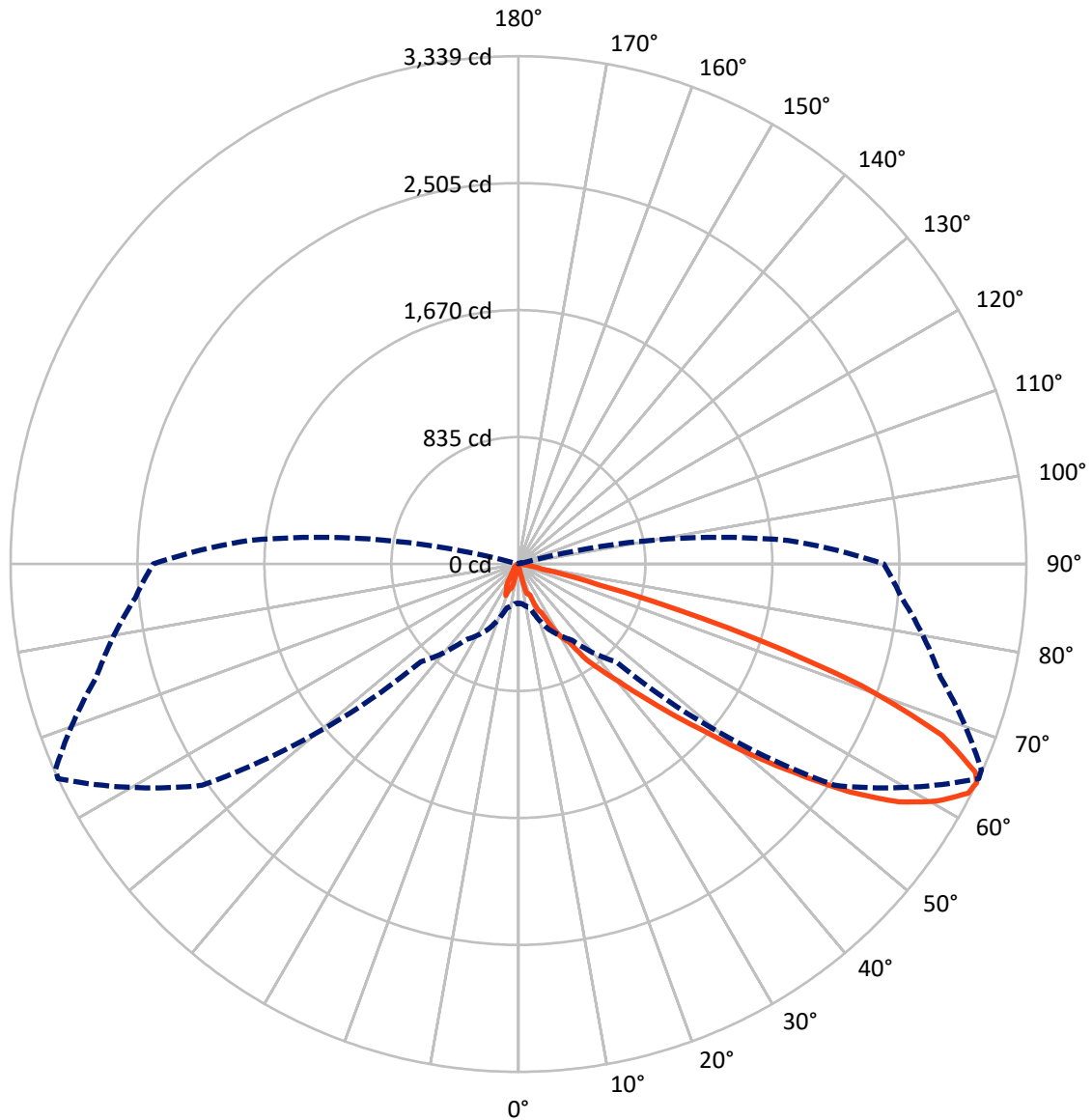


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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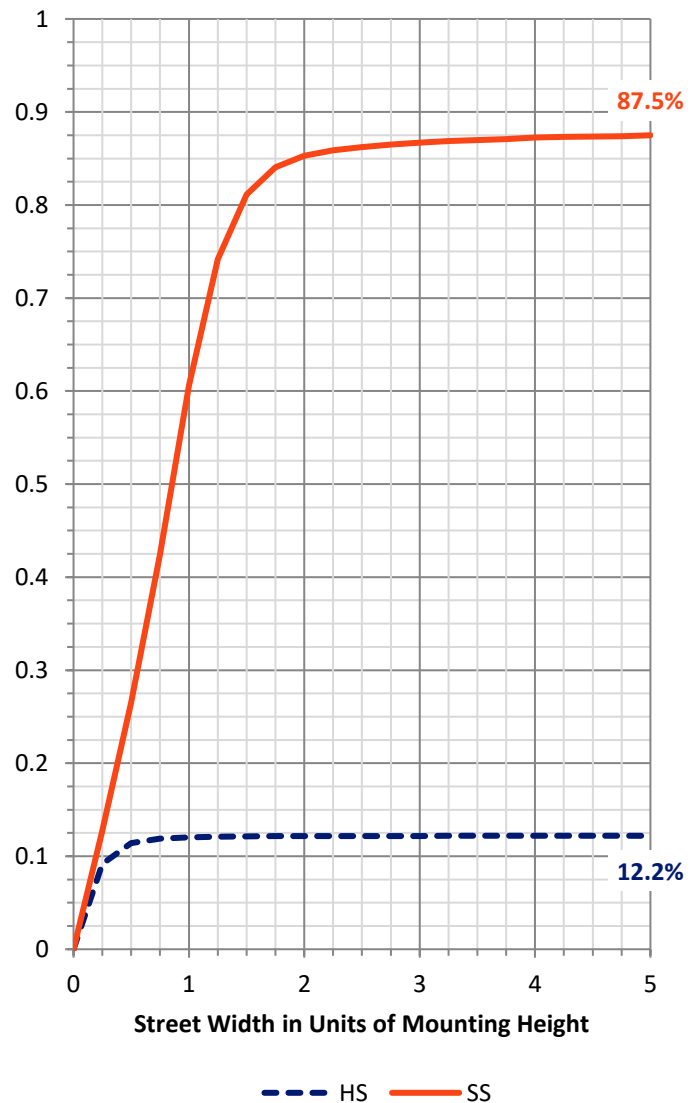
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	414.8	0.0	414.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	2950.6	0.0	2950.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	3365.4	0.0	3365.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.6	0.1
10°-20°	33.6	1.0
20°-30°	114.2	3.4
30°-40°	320.5	9.5
40°-50°	744.1	22.1
50°-60°	1040.2	30.9
60°-70°	820.5	24.4
70°-80°	274.8	8.2
80°-90°	14.9	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°	3365.4	100.0
0°-180°	3365.4	100.0



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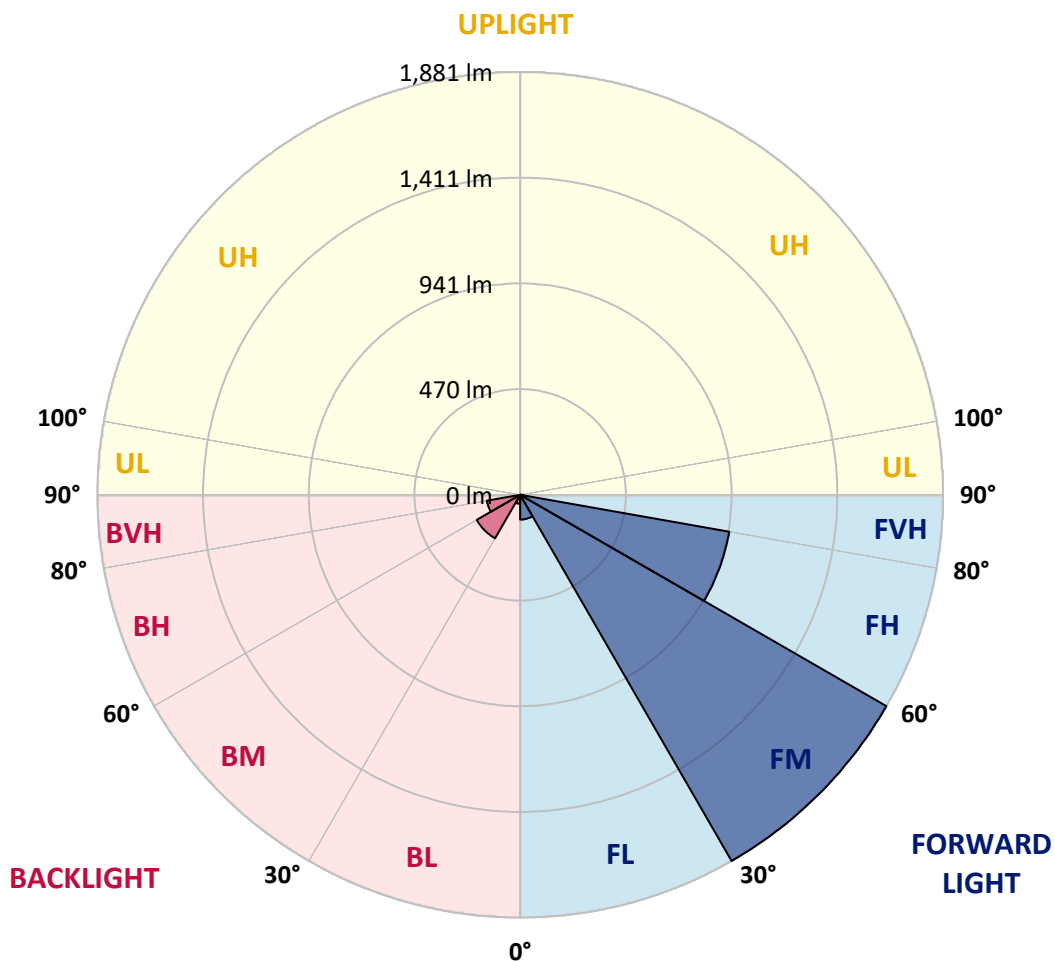
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	110.3	3.3			
FM	(30°-60°)	1881.5	55.9			
FH	(60°-80°)	944.6	28.1			G1/1800
FVH	(80°-90°)	14.2	0.4			G1/100
BL	(0°-30°)	40.2	1.2	B0/110		
BM	(30°-60°)	223.3	6.6	B1/1000		
BH	(60°-80°)	150.6	4.5	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G1**

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°	66.3	27.5	20.8	12.9	4.0	1.1	0.5	0.0	0.0	0.0	0.0
7.5°	95.5	95.0	95.0	96.1	97.1	88.8	6.7	0.5	0.0	0.0	0.0
10°	91.0	90.5	90.5	92.2	93.9	95.5	96.1	3.4	2.2	0.0	0.0
12.5°	182.0	180.9	174.2	103.9	93.9	94.4	96.7	65.8	39.3	14.6	69.7
15°	179.2	178.7	179.2	183.2	183.2	97.7	146.1	197.2	196.5	128.1	149.9
17.5°	183.8	180.9	179.8	182.5	187.0	216.3	214.1	207.2	207.9	136.0	153.9
20°	264.6	265.2	269.1	205.6	193.9	273.7	242.7	218.0	221.3	261.2	283.1
22.5°	269.1	268.6	273.7	283.1	333.7	280.9	325.2	327.1	334.3	342.2	303.9
25°	371.9	371.4	303.9	297.8	356.7	315.1	389.3	353.9	360.1	361.3	372.4
27.5°	420.8	415.7	419.1	420.8	376.4	442.8	403.3	467.5	447.7	495.0	472.5
30°	536.0	520.3	481.5	487.7	465.7	471.9	488.8	558.4	539.9	524.7	516.3
32.5°	783.7	774.2	736.0	607.3	565.3	513.6	593.3	611.2	613.5	718.0	715.8
35°	1145.0	1077.5	942.7	847.8	677.1	670.9	657.9	772.5	778.1	817.9	817.5
37.5°	1611.9	1598.4	1406.7	1092.8	894.4	786.6	818.5	886.0	864.7	948.4	949.5
40°	1896.1	1883.2	1728.2	1457.4	1142.7	988.9	950.0	1015.3	979.2	1124.1	1096.1
42.5°	2101.2	2087.8	1974.8	1723.0	1505.6	1331.5	1156.7	1184.3	1161.2	1291.0	1278.6
45°	2223.8	2204.6	2156.3	1942.8	1804.1	1730.5	1455.2	1395.0	1400.6	1500.6	1487.1
47.5°	2216.9	2187.7	2200.0	2069.8	2056.3	2097.4	1826.4	1634.3	1698.3	1751.8	1716.9
50°	2041.7	2018.6	2088.3	2105.6	2221.5	2386.6	2219.7	1952.8	2033.3	1999.5	1927.0
52.5°	1716.9	1721.4	1822.5	1940.6	2250.2	2586.1	2597.3	2286.0	2395.1	2223.8	2118.1
55°	1373.1	1385.5	1496.1	1638.9	2074.8	2651.3	2912.5	2644.5	2739.4	2408.5	2256.4
57.5°	1009.5	1029.3	1168.1	1289.3	1706.8	2484.9	3068.2	2952.4	3009.1	2567.5	2364.7
60°	598.4	609.1	793.4	969.1	1236.5	1992.3	3062.0	3164.2	3183.4	2732.1	2451.3
62.5°	353.5	359.1	420.8	654.0	814.7	1306.2	2828.9	3318.7	3313.0	2837.1	2510.9
64°	257.9	261.8	300.0	474.8	609.1	909.7	2536.6	3339.4	3332.7	2872.6	2527.7
65°	215.8	219.0	246.0	374.8	506.7	695.6	2212.4	3302.3	3297.9	2890.6	2526.6
67.5°	173.1	173.6	181.5	219.6	344.9	365.3	1281.0	3006.3	2992.9	2909.2	2484.9
70°	155.0	157.4	171.3	173.1	252.2	239.8	450.6	2394.5	2365.2	2761.8	2388.4
72.5°	123.1	126.4	148.8	169.7	182.0	179.8	205.6	1460.1	1472.0	2029.4	2001.8
75°	86.0	89.3	112.4	140.4	143.8	131.4	148.3	548.3	541.0	1002.2	1164.2
77.5°	53.4	55.1	70.2	101.1	133.7	87.0	103.3	159.0	170.1	310.8	318.0
80°	35.5	35.9	44.3	66.8	92.6	78.6	61.9	80.4	82.0	97.7	48.2
82.5°	19.7	20.2	28.0	42.1	55.7	69.7	39.9	48.2	51.2	60.6	25.8
85°	6.7	7.2	14.6	23.5	33.6	33.6	25.8	29.3	29.7	38.2	13.5
87.5°	0.0	0.0	3.4	6.2	5.6	2.2	5.6	4.5	4.0	6.2	2.2
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	0.5	0.0	0.0	0.0	0.0	70.7	78.2	78.6	79.8
10°	0.0	0.0	0.5	0.5	0.0	75.3	79.8	78.2	74.2	73.0	72.0
12.5°	72.0	69.1	9.5	2.2	63.5	78.6	70.7	60.6	51.2	48.2	46.1
15°	148.3	146.7	131.0	143.8	89.3	67.5	49.9	54.0	45.5	42.7	41.6
17.5°	150.6	148.3	139.9	169.2	139.3	68.5	46.1	37.1	33.6	32.6	32.0
20°	286.0	277.5	203.3	166.2	106.8	69.7	35.5	29.7	27.5	30.4	32.0
22.5°	294.4	284.9	245.4	223.0	89.3	45.5	33.6	32.6	34.2	32.6	32.6
25°	371.4	343.3	269.8	183.2	79.2	40.5	38.2	29.7	27.5	26.4	26.4
27.5°	461.3	439.9	372.4	171.9	53.4	42.7	33.1	25.8	28.7	28.7	28.7
30°	493.3	463.4	376.4	150.6	47.3	38.7	28.0	28.0	25.3	24.2	24.2
32.5°	708.5	665.1	483.2	105.6	42.7	32.6	28.0	23.5	23.0	24.8	24.8
35°	789.4	738.8	470.8	78.2	37.6	29.7	24.2	23.0	21.9	21.9	21.9
37.5°	897.2	837.7	432.1	57.9	35.5	25.3	21.4	20.2	20.8	21.9	22.5
40°	1038.3	966.3	400.6	47.8	30.4	21.9	19.1	19.7	19.7	19.7	19.7
42.5°	1204.5	1105.2	353.9	42.7	25.8	19.7	17.3	17.3	18.0	18.0	18.0
45°	1395.5	1256.8	288.7	37.6	22.5	16.9	15.7	15.7	15.7	15.2	15.7
47.5°	1597.8	1420.8	219.0	33.1	19.1	15.2	14.1	13.5	13.5	12.9	13.5
50°	1798.9	1573.7	160.1	28.7	16.9	13.5	11.8	11.8	11.8	11.1	11.1
52.5°	1959.7	1677.0	113.5	24.8	14.6	11.8	10.2	9.5	9.5	9.1	9.1
55°	2094.5	1738.8	83.2	20.8	12.9	10.2	8.4	7.8	7.8	7.2	7.8
57.5°	2198.4	1777.6	62.9	16.9	11.1	8.4	6.7	6.2	6.2	6.2	6.2
60°	2286.0	1790.5	48.2	14.1	9.5	6.7	5.6	5.1	5.1	4.5	5.1
62.5°	2367.6	1787.2	39.9	12.3	8.4	5.6	4.5	4.0	3.4	2.9	3.4
64°	2402.3	1778.1	35.9	10.7	7.8	5.1	4.0	3.4	2.9	1.6	2.2
65°	2417.0	1764.1	33.1	9.5	7.2	4.5	4.0	3.4	1.6	1.1	1.6
67.5°	2404.7	1691.7	25.8	8.4	5.6	3.4	2.9	2.2	0.5	0.5	1.1
70°	2267.0	1537.7	19.7	7.2	5.1	2.9	2.2	1.6	1.1	0.5	1.1
72.5°	1780.4	1105.6	15.2	5.6	4.0	1.6	2.2	1.6	1.1	0.5	0.0
75°	955.1	415.1	11.1	4.5	3.4	1.6	1.6	1.1	0.5	0.5	0.0
77.5°	246.0	131.0	7.8	2.9	2.9	1.1	1.1	1.1	0.5	0.5	0.0
80°	38.2	18.5	3.4	2.2	1.6	0.5	1.1	0.5	0.5	1.1	0.0
82.5°	15.7	7.2	2.2	1.6	1.6	0.0	1.1	0.5	0.5	0.5	0.0
85°	4.0	2.9	1.6	1.1	1.1	0.0	0.5	0.0	0.5	0.5	0.0
87.5°	0.5	1.1	1.1	1.1	1.1	0.0	0.5	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)