

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: P253987

Luminaire Tested: **LXF.LXT-AF24-30-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-30-D-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
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: 3491.3 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 31
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

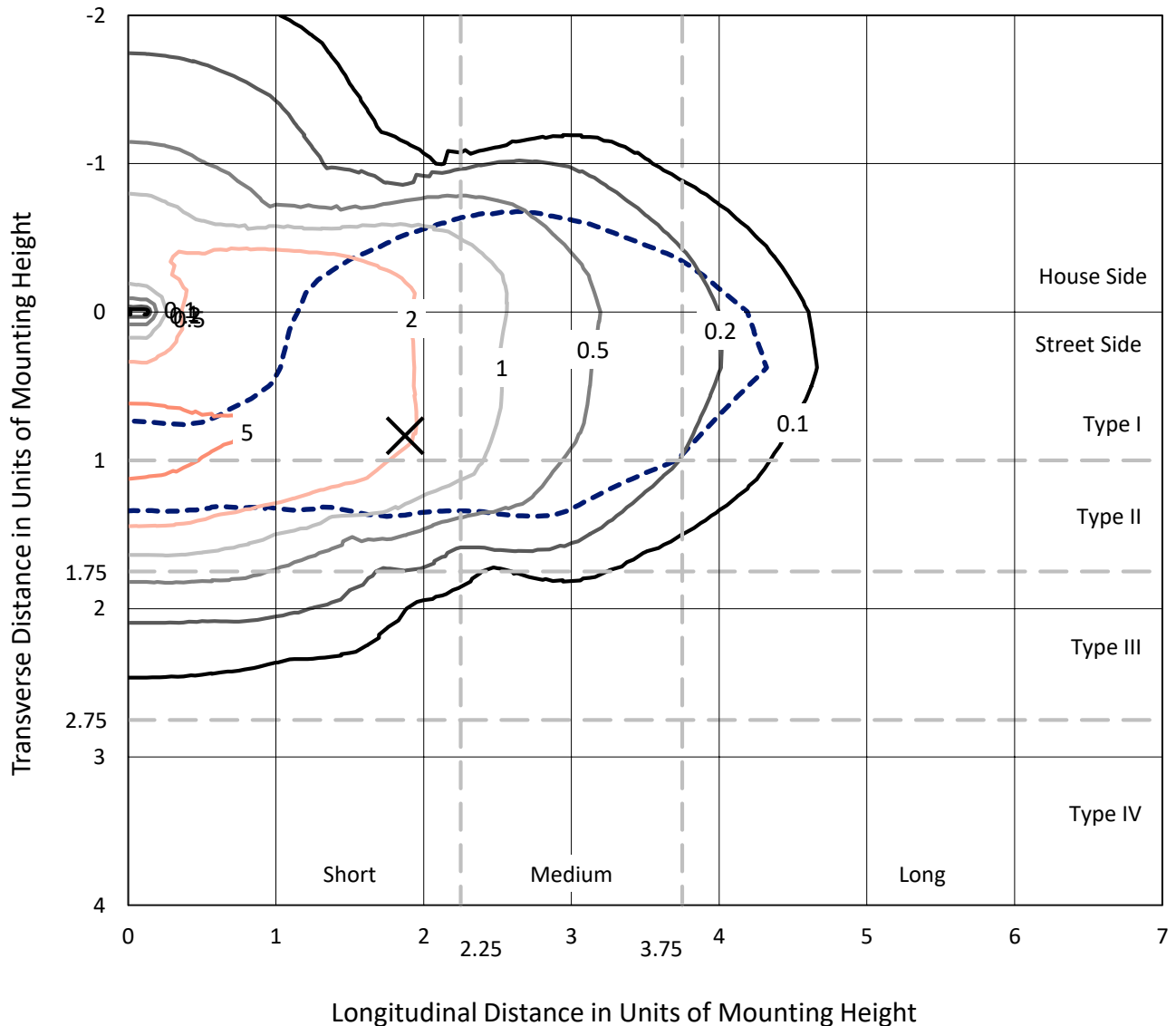


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

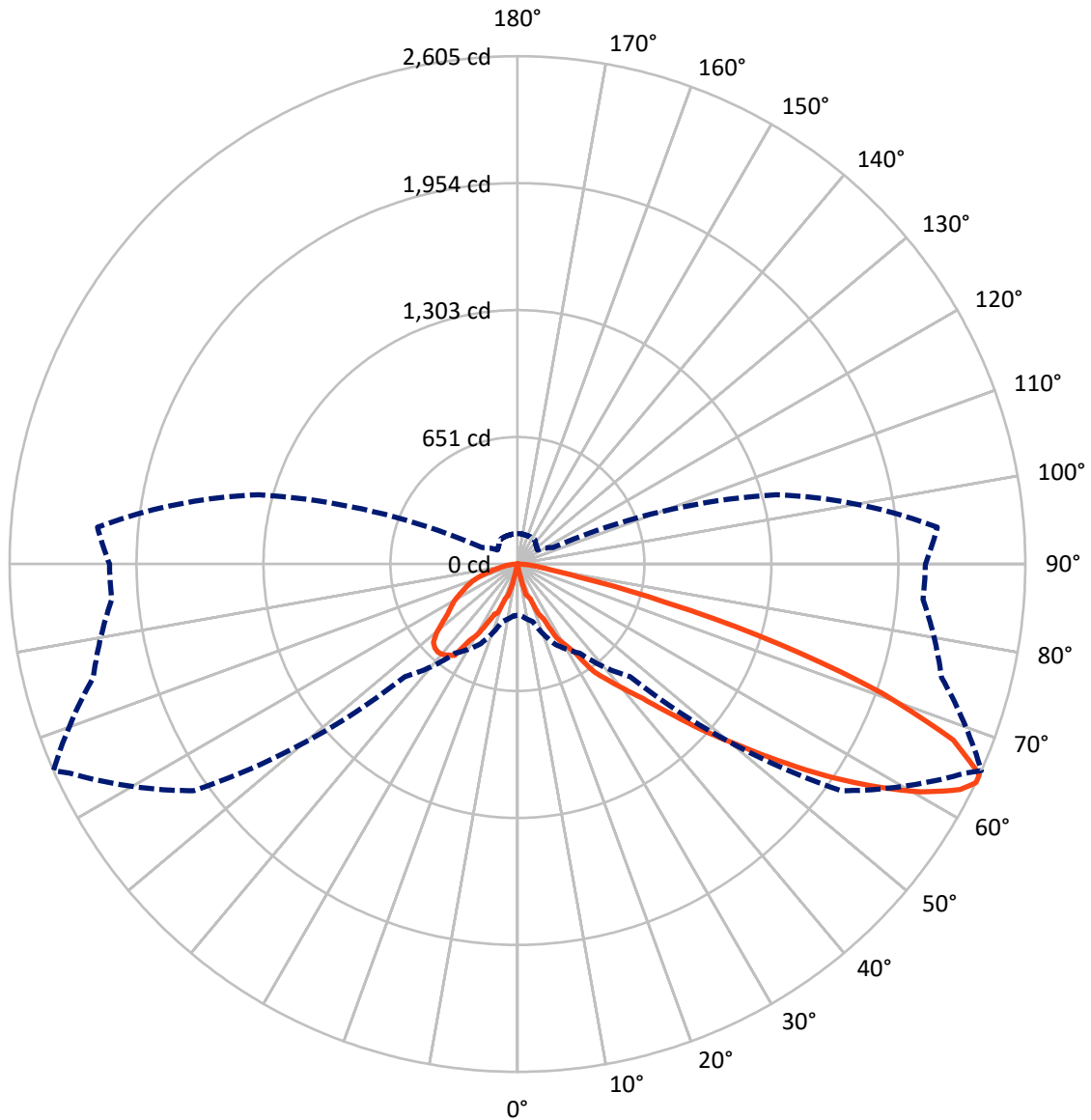


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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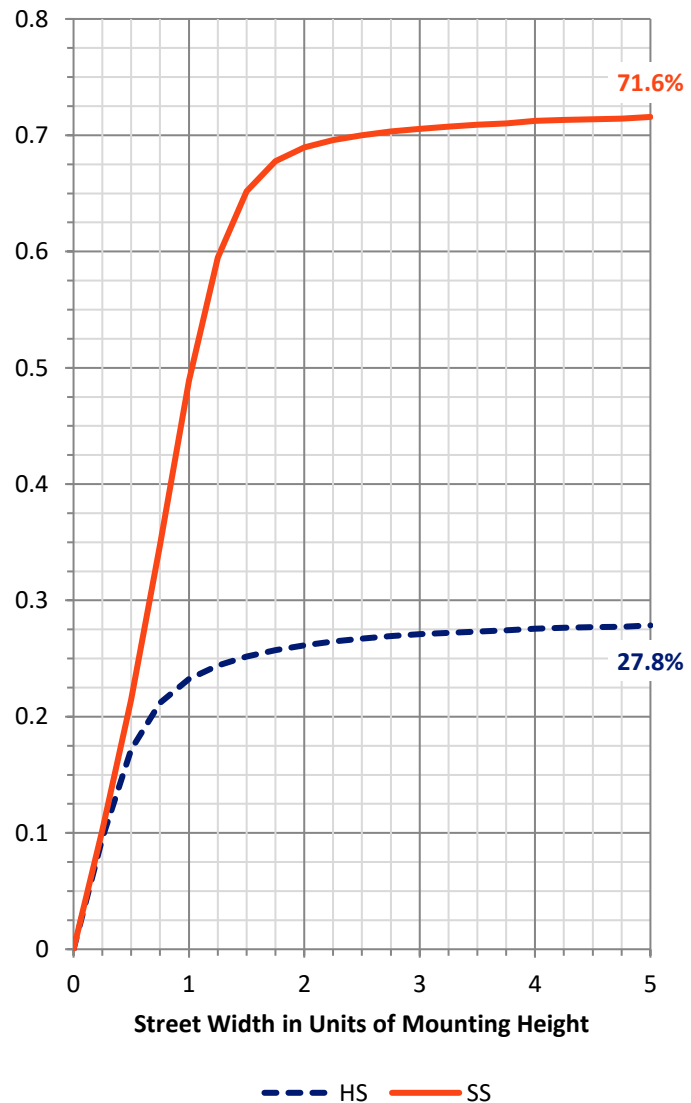
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.3	0.0	983.3
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	2508.0	0.0	2508.0
	% Fixture	71.8	0.0	71.8
Total	Lumens	3491.3	0.0	3491.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.6	0.1
10°-20°	38.5	1.1
20°-30°	149.6	4.3
30°-40°	370.0	10.6
40°-50°	696.0	19.9
50°-60°	923.3	26.4
60°-70°	831.2	23.8
70°-80°	424.5	12.2
80°-90°	55.6	1.6
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°	3491.3	100.0
0°-180°	3491.3	100.0



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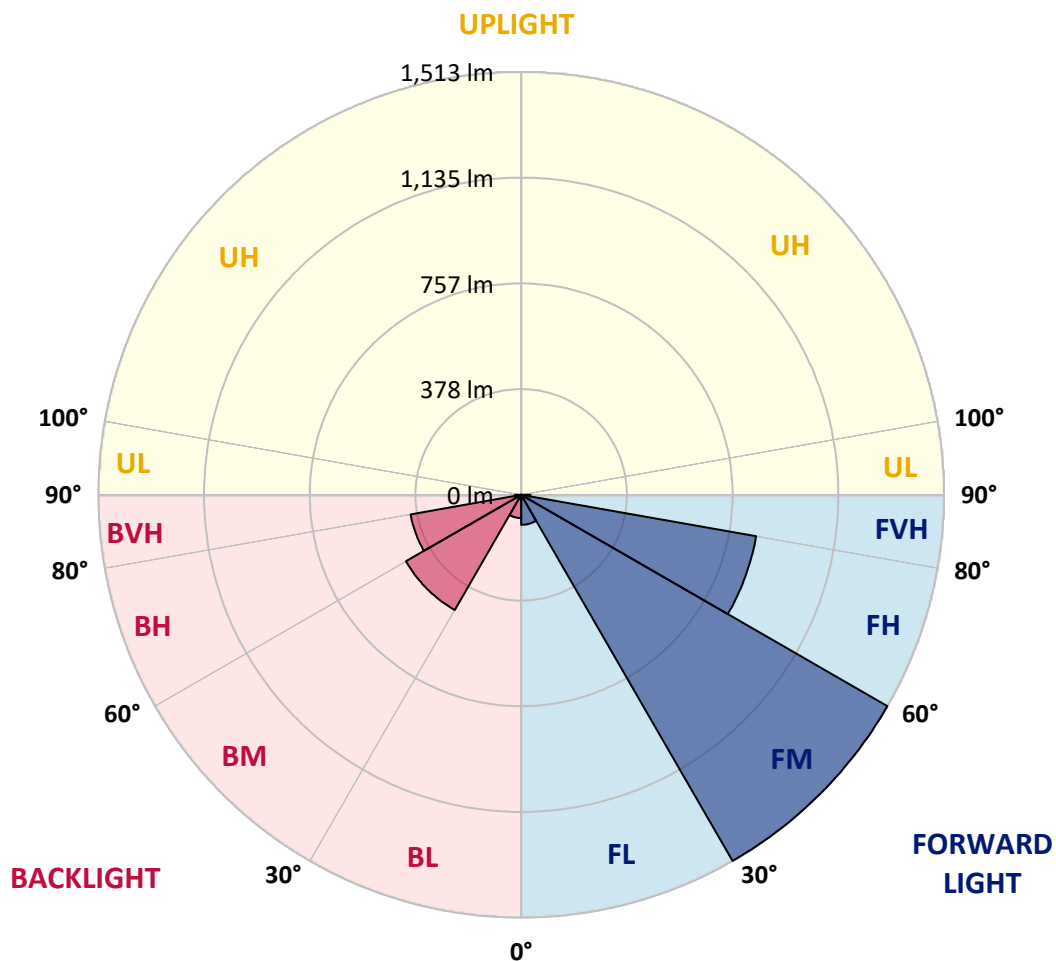
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.5	3.1			
FM	(30°-60°)	1513.3	43.3			
FH	(60°-80°)	853.9	24.5			G1/1800
FVH	(80°-90°)	33.3	1.0			G1/100
BL	(0°-30°)	83.2	2.4	B0/110		
BM	(30°-60°)	475.9	13.6	B1/1000		
BH	(60°-80°)	401.8	11.5	B1/500		G1/500
BVH	(80°-90°)	22.4	0.6			G1/100
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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2.5°	1.5	1.2	1.5	1.9	1.9	1.5	1.2	0.4	0.4	0.0	0.0
5°	74.5	72.9	50.7	19.8	10.3	5.5	2.8	1.2	0.8	0.4	0.4
7.5°	77.6	77.6	77.6	78.5	76.8	74.5	12.7	2.8	2.4	0.8	0.4
10°	79.2	78.9	78.1	78.9	78.1	78.1	76.4	9.9	9.1	3.2	2.4
12.5°	148.9	148.1	143.4	92.7	81.2	81.2	81.6	66.6	66.9	21.4	55.0
15°	155.7	155.3	153.3	154.1	149.4	89.1	125.2	160.4	162.0	112.5	127.2
17.5°	173.1	170.3	164.0	162.0	160.0	182.6	175.1	174.7	174.7	131.1	138.2
20°	267.8	264.2	260.6	210.7	175.8	232.5	215.1	188.9	190.6	223.4	236.9
22.5°	307.8	305.0	299.4	288.0	300.2	250.7	263.0	275.3	276.9	292.0	269.3
25°	419.1	421.5	392.2	335.9	362.0	312.1	337.1	303.8	312.1	317.3	333.2
27.5°	542.3	534.0	524.9	477.7	411.9	438.9	371.5	397.3	428.2	432.6	405.6
30°	690.4	678.9	606.5	601.3	527.2	494.0	480.5	487.6	479.4	454.4	454.7
32.5°	871.0	864.3	832.7	735.2	667.1	566.4	585.0	534.4	539.1	590.7	599.3
35°	1122.2	1110.7	959.4	907.2	772.0	726.9	654.4	675.4	681.0	671.1	659.5
37.5°	1410.2	1399.9	1281.0	1068.4	933.2	829.5	807.7	770.5	755.8	757.8	761.8
40°	1580.2	1573.0	1468.0	1290.6	1096.5	987.1	916.3	865.1	842.2	871.0	862.8
42.5°	1701.8	1691.4	1631.2	1458.1	1319.1	1210.2	1047.3	980.0	942.8	1004.9	976.8
45°	1774.6	1759.2	1729.5	1572.2	1501.3	1462.9	1223.7	1113.9	1086.2	1132.9	1112.4
47.5°	1752.4	1727.0	1745.7	1652.6	1649.4	1686.3	1429.6	1268.4	1267.6	1284.2	1268.8
50°	1615.0	1596.7	1652.3	1662.5	1741.4	1863.4	1680.7	1442.3	1451.8	1445.4	1427.6
52.5°	1360.7	1364.6	1452.6	1537.4	1733.4	1968.8	1929.5	1647.1	1673.2	1603.5	1574.2
55°	1097.2	1110.7	1205.4	1311.1	1607.9	1994.0	2145.7	1873.2	1916.8	1757.2	1712.0
57.5°	832.7	850.9	963.7	1043.0	1357.6	1906.6	2274.1	2086.0	2149.7	1903.7	1840.4
60°	530.0	541.1	680.2	813.2	1012.5	1610.2	2304.2	2302.7	2373.6	2052.7	1954.4
62.5°	343.0	349.3	408.4	586.3	703.9	1124.2	2206.0	2477.0	2549.4	2197.7	2052.3
64°	262.6	268.2	305.8	452.3	558.5	817.2	2027.4	2536.8	2605.3	2252.7	2088.8
65°	228.1	231.7	259.4	368.8	475.4	640.9	1851.4	2538.4	2604.1	2268.6	2095.1
67.5°	189.8	190.9	201.2	233.3	335.9	357.3	1168.5	2349.8	2411.6	2234.5	2044.8
70°	172.0	174.3	187.7	190.2	259.4	247.1	435.4	1933.5	1983.4	2143.0	1933.1
72.5°	148.1	150.9	168.4	182.6	200.8	196.1	220.2	1357.9	1411.0	1855.4	1805.9
75°	120.8	123.6	140.2	161.2	168.4	154.1	173.1	697.6	786.6	1371.4	1616.2
77.5°	95.9	98.6	111.7	126.7	151.7	118.0	138.2	267.4	319.7	852.0	1202.3
80°	68.1	69.8	83.6	95.9	114.5	102.2	100.7	146.2	153.6	423.5	605.3
82.5°	41.9	43.2	55.9	64.1	76.4	102.2	72.1	100.7	103.0	177.9	185.4
85°	23.3	24.1	33.7	36.4	42.4	51.9	48.3	55.0	56.7	79.2	46.7
87.5°	2.8	3.6	7.9	8.7	7.9	8.7	8.7	7.9	8.3	7.2	4.0
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°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
2.5°	0.4	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5°	0.4	0.4	0.8	0.8	1.2	1.2	1.5	2.4	2.4	2.4	2.8
7.5°	0.4	0.4	0.8	1.2	1.5	4.0	19.8	68.5	77.2	80.0	80.0
10°	2.4	2.4	2.4	2.8	7.9	77.2	86.7	89.5	90.7	90.7	91.6
12.5°	60.6	60.6	32.5	12.7	72.5	90.3	92.3	94.3	95.4	96.7	98.2
15°	128.0	128.4	124.8	122.4	129.1	97.5	98.6	158.9	165.6	168.4	168.8
17.5°	139.0	138.2	139.0	177.1	186.6	145.8	162.9	173.9	175.1	175.4	175.4
20°	249.6	248.4	197.2	187.4	191.3	242.0	175.4	175.8	197.2	228.9	238.9
22.5°	267.8	265.4	251.1	273.7	251.1	247.1	223.0	230.6	237.6	236.9	236.5
25°	337.5	330.7	276.9	282.8	318.0	250.3	267.8	222.6	226.6	227.8	228.1
27.5°	415.1	407.2	389.4	332.8	324.4	312.9	250.7	232.5	258.3	259.1	257.5
30°	443.7	432.9	407.2	416.3	347.0	295.1	240.5	246.0	232.9	232.5	232.9
32.5°	602.9	583.5	533.6	451.2	366.4	267.0	236.9	219.4	234.2	238.0	238.0
35°	659.5	634.2	591.1	566.1	351.4	259.1	207.6	212.0	212.7	212.0	212.4
37.5°	734.0	700.7	661.5	576.7	362.0	225.4	198.0	196.5	212.0	214.7	215.8
40°	820.8	789.1	752.6	585.4	324.8	207.1	189.8	196.5	200.8	201.6	202.4
42.5°	930.9	886.9	838.2	583.9	276.5	198.9	188.1	188.1	193.3	191.7	191.7
45°	1056.5	1000.2	918.6	568.9	228.9	191.3	184.2	181.5	183.8	180.7	180.7
47.5°	1197.5	1135.7	978.9	545.4	201.6	184.6	180.7	172.0	177.5	176.7	176.7
50°	1346.8	1282.3	1035.0	492.8	184.6	178.6	171.5	169.5	176.7	175.1	174.7
52.5°	1490.2	1434.4	1077.9	421.0	169.9	173.1	168.4	167.6	173.9	172.3	172.0
55°	1627.6	1595.2	1131.3	360.5	156.8	163.2	167.2	167.2	171.1	169.5	169.5
57.5°	1761.5	1767.9	1194.7	318.9	147.0	155.3	165.6	165.2	167.6	166.3	166.7
60°	1897.8	1939.0	1258.1	279.7	139.0	146.2	162.4	161.6	162.9	162.4	162.9
62.5°	2027.0	2094.7	1335.0	229.3	130.3	139.0	157.2	158.0	157.6	158.9	158.9
64°	2093.1	2162.4	1373.0	200.1	125.2	134.7	153.3	154.5	154.1	156.5	156.1
65°	2118.8	2187.4	1386.4	182.6	122.0	131.9	150.5	152.1	151.7	154.5	153.3
67.5°	2111.7	2158.1	1370.1	150.5	113.6	124.4	143.0	145.8	144.5	148.5	145.8
70°	2036.9	1998.4	1241.5	131.1	107.0	116.1	133.5	137.1	135.0	139.0	134.3
72.5°	1896.7	1724.7	966.2	113.6	99.4	107.7	122.8	126.3	124.8	126.3	121.2
75°	1586.1	1330.1	565.3	98.6	89.5	96.3	110.2	113.6	112.1	108.5	106.6
77.5°	1102.8	841.0	223.4	86.3	80.4	84.4	93.9	97.1	94.6	88.0	86.7
80°	526.0	375.1	107.3	74.9	69.8	72.1	76.8	78.1	77.6	70.9	67.7
82.5°	161.2	122.8	74.1	60.3	56.7	55.9	60.6	59.0	58.2	53.5	41.9
85°	36.4	36.0	41.6	37.2	35.7	32.1	36.4	35.3	34.5	25.8	22.2
87.5°	1.2	2.4	1.9	5.1	5.5	4.4	7.2	7.6	5.5	2.4	0.4
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)