

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: P266063

Luminaire Tested: **LXF.LXT-AF24-40-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266063
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-AF24-40-D-U-T2U-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 500mA 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: 3840.5 lumens
Efficiency: N/A
Efficacy: 96.0 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

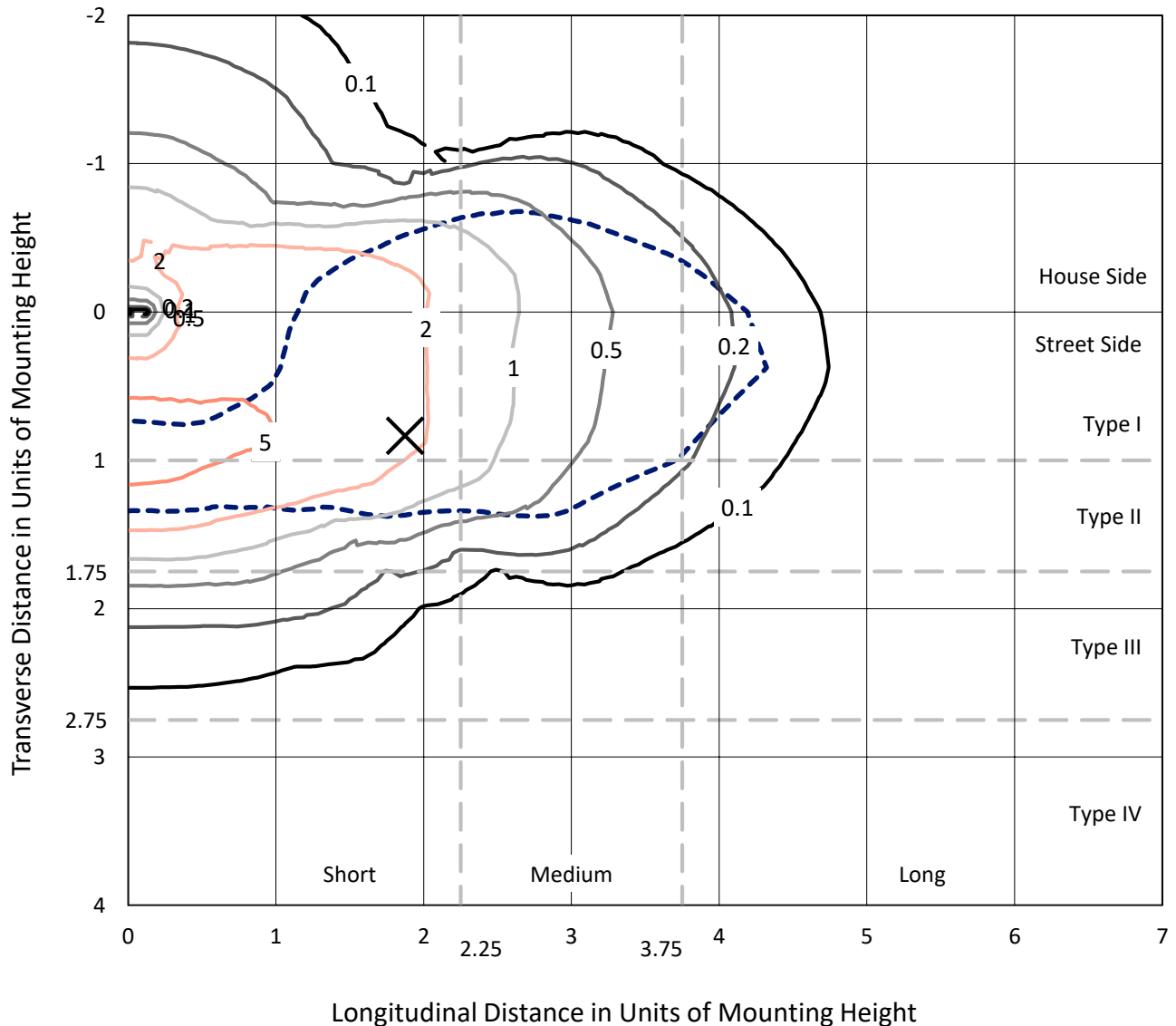
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

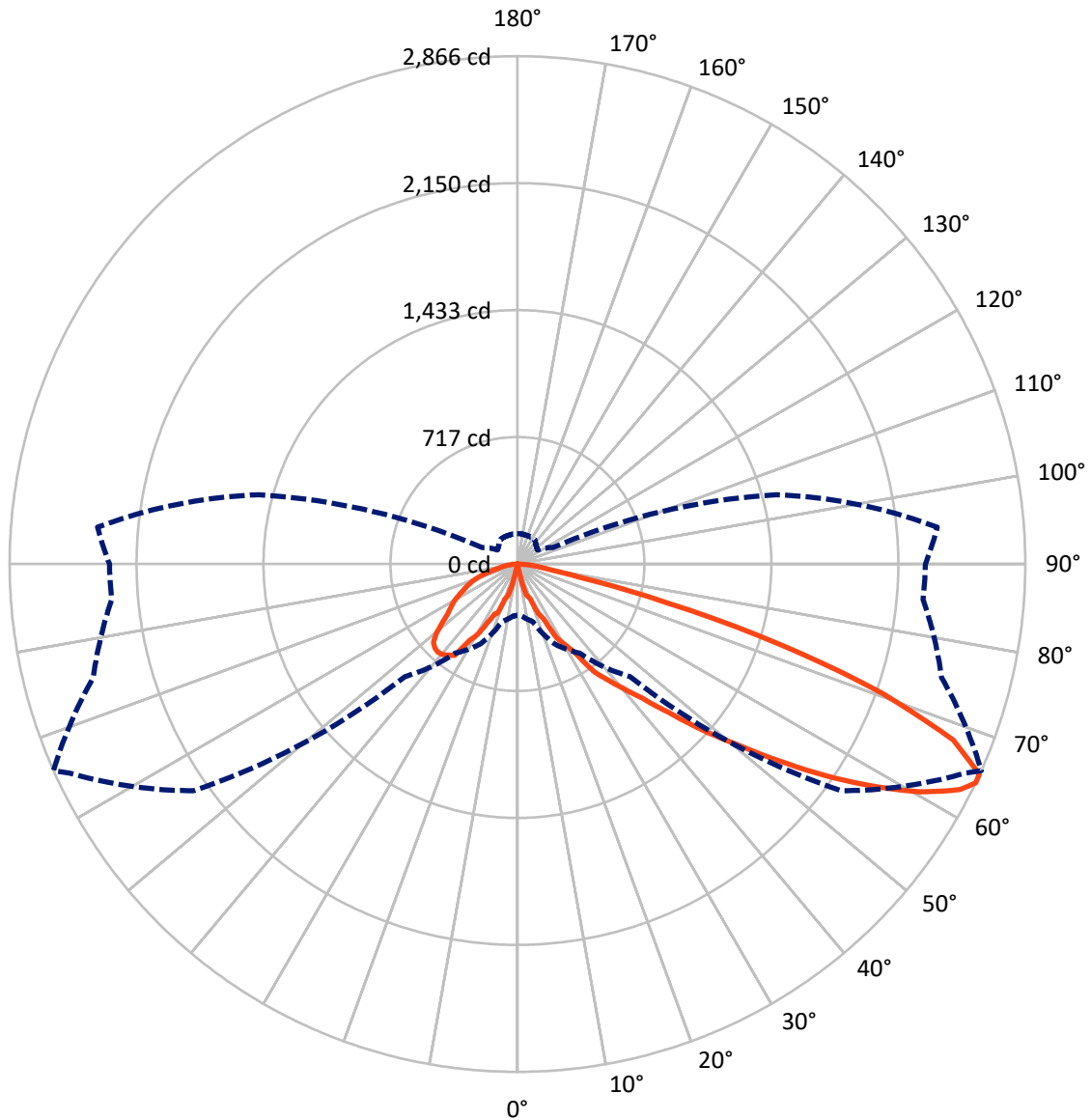
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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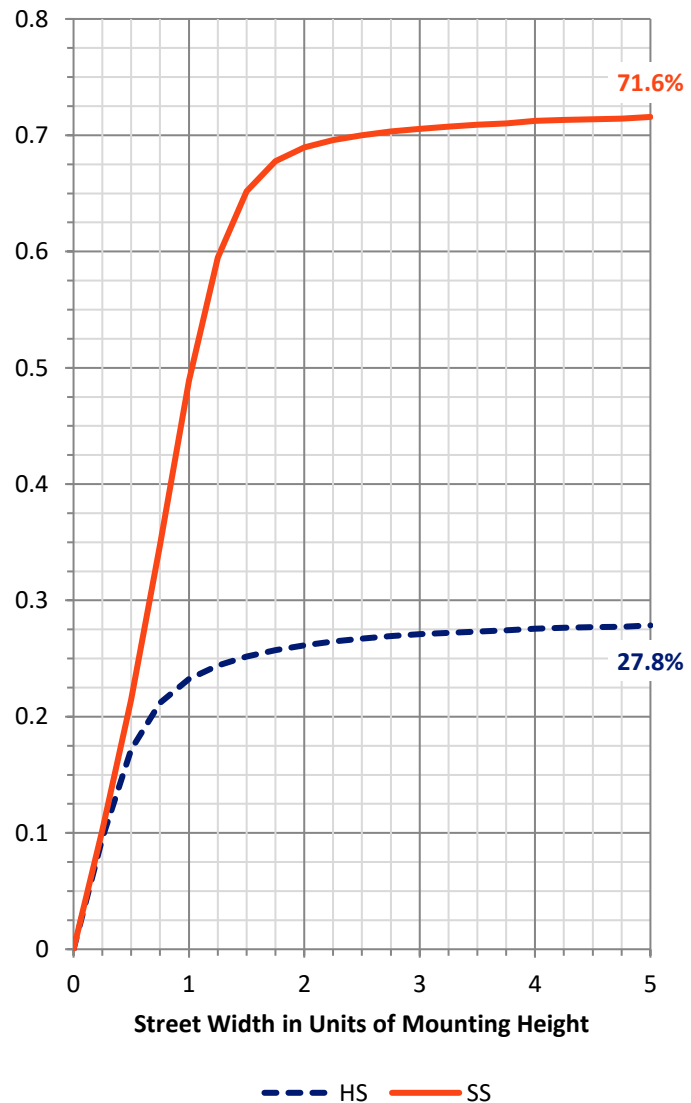
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1081.7	0.0	1081.7
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	2758.8	0.0	2758.8
	% Fixture	71.8	0.0	71.8
Total	Lumens	3840.5	0.0	3840.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	42.4	1.1
20°-30°	164.5	4.3
30°-40°	407.0	10.6
40°-50°	765.6	19.9
50°-60°	1015.6	26.4
60°-70°	914.4	23.8
70°-80°	466.9	12.2
80°-90°	61.2	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°	3840.5	100.0
0°-180°	3840.5	100.0



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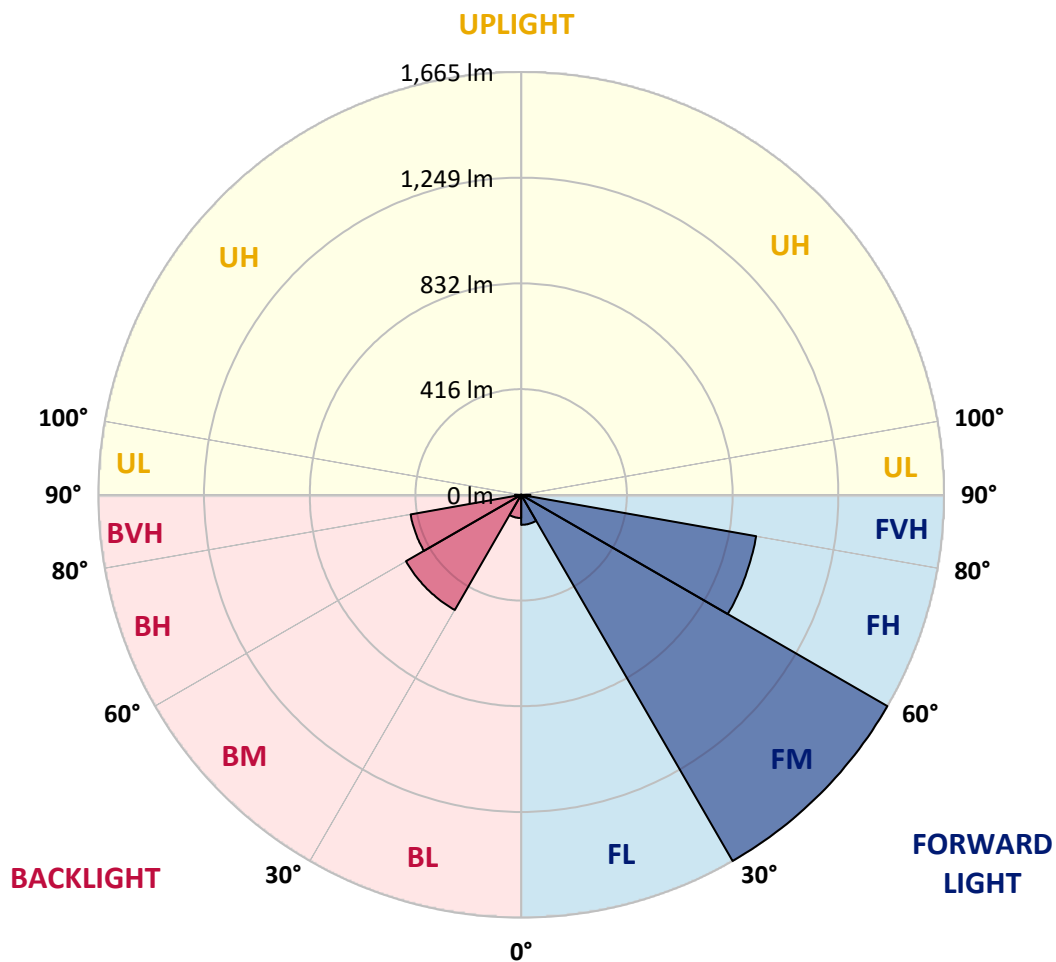
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.2	3.1			
FM (30°-60°)	1664.7	43.3			
FH (60°-80°)	939.3	24.5			G1/1800
FVH (80°-90°)	36.6	1.0			G1/100
BL (0°-30°)	91.6	2.4	B0/110		
BM (30°-60°)	523.5	13.6	B1/1000		
BH (60°-80°)	442.0	11.5	B1/500		G1/500
BVH (80°-90°)	24.6	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°	1.7	1.3	1.7	2.2	2.2	1.7	1.3	0.4	0.4	0.0	0.0
5°	81.9	80.2	55.8	21.7	11.3	6.1	3.1	1.3	0.9	0.4	0.4
7.5°	85.3	85.3	85.3	86.2	84.5	81.9	14.0	3.1	2.6	0.9	0.4
10°	87.1	86.6	85.9	86.6	85.9	85.9	84.1	10.9	10.1	3.6	2.6
12.5°	163.9	163.0	157.7	102.0	89.3	89.3	89.8	73.2	73.7	23.5	60.5
15°	171.2	170.8	168.6	169.5	164.3	98.1	137.7	176.4	178.3	123.7	139.9
17.5°	190.4	187.3	180.4	178.3	176.1	201.0	192.5	192.1	192.1	144.3	152.1
20°	294.6	290.6	286.6	231.9	193.4	255.7	236.7	207.9	209.6	245.7	260.6
22.5°	338.7	335.5	329.4	316.8	330.2	275.8	289.3	302.9	304.5	321.1	296.4
25°	461.0	463.6	431.4	369.6	398.3	343.3	370.8	334.2	343.3	349.0	366.5
27.5°	596.6	587.4	577.4	525.5	453.1	482.7	408.6	437.0	471.0	475.8	446.2
30°	759.4	746.9	667.1	661.4	579.9	543.4	528.6	536.4	527.2	499.7	500.3
32.5°	958.2	950.8	915.9	808.7	733.7	623.2	643.5	587.9	593.1	649.7	659.3
35°	1234.5	1221.9	1055.4	997.8	849.3	799.6	719.8	743.0	749.0	738.1	725.6
37.5°	1551.3	1540.0	1409.3	1175.3	1026.7	912.5	888.5	847.6	831.4	833.5	837.8
40°	1738.2	1730.3	1614.9	1419.6	1206.2	1086.0	1007.9	951.7	926.4	958.2	949.1
42.5°	1872.0	1860.6	1794.4	1604.0	1451.0	1331.2	1152.0	1078.1	1037.1	1105.5	1074.6
45°	1952.1	1935.0	1902.4	1729.4	1651.4	1609.3	1346.0	1225.3	1194.7	1246.2	1223.6
47.5°	1927.8	1899.8	1920.2	1817.9	1814.4	1855.0	1572.7	1395.2	1394.3	1412.7	1395.6
50°	1776.5	1756.5	1817.5	1828.8	1915.5	2049.8	1848.8	1586.5	1596.9	1590.0	1570.3
52.5°	1496.8	1501.2	1597.8	1691.1	1906.8	2165.6	2122.4	1811.8	1840.5	1763.9	1731.7
55°	1207.1	1221.9	1326.0	1442.3	1768.7	2193.5	2360.4	2060.6	2108.5	1933.0	1883.2
57.5°	915.9	935.9	1060.2	1147.3	1493.3	2097.3	2501.6	2294.6	2364.8	2094.2	2024.5
60°	583.0	595.2	748.2	894.6	1113.8	1771.3	2534.7	2533.0	2611.0	2258.0	2150.0
62.5°	377.4	384.4	449.2	645.0	774.2	1236.6	2426.6	2724.6	2804.5	2417.5	2257.6
64°	288.9	295.1	336.3	497.7	614.4	898.9	2230.1	2790.4	2866.0	2478.1	2297.7
65°	250.9	254.8	285.4	405.7	523.0	705.0	2036.6	2792.2	2864.5	2495.5	2304.6
67.5°	208.8	210.1	221.3	256.6	369.6	393.1	1285.5	2584.9	2652.9	2458.0	2249.3
70°	189.2	191.7	206.5	209.1	285.4	271.8	478.8	2126.8	2181.8	2357.3	2126.4
72.5°	163.0	166.0	185.2	201.0	221.0	215.8	242.3	1493.7	1552.1	2040.9	1986.5
75°	132.9	136.0	154.2	177.3	185.2	169.5	190.4	767.3	865.3	1508.6	1777.8
77.5°	105.5	108.4	122.9	139.4	166.8	129.8	152.1	294.1	351.6	937.3	1322.5
80°	75.0	76.6	91.9	105.5	125.9	112.4	110.8	160.7	169.2	465.9	665.9
82.5°	46.3	47.5	61.4	70.5	84.1	112.4	79.3	110.8	113.2	195.7	203.9
85°	25.7	26.6	37.0	40.1	46.6	57.1	53.2	60.5	62.3	87.1	51.5
87.5°	3.1	4.0	8.8	9.6	8.8	9.6	9.6	8.8	9.2	7.8	4.3
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	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0
5°	0.4	0.4	0.9	0.9	1.3	1.3	1.7	2.6	2.6	2.6	3.1
7.5°	0.4	0.4	0.9	1.3	1.7	4.3	21.7	75.4	85.0	88.0	88.0
10°	2.6	2.6	2.6	3.1	8.8	85.0	95.4	98.5	99.8	99.8	100.7
12.5°	66.7	66.7	35.8	14.0	79.7	99.4	101.5	103.8	105.0	106.3	108.1
15°	140.8	141.2	137.3	134.7	142.0	107.2	108.4	174.7	182.1	185.2	185.6
17.5°	152.9	152.1	152.9	194.8	205.3	160.3	179.1	191.2	192.5	193.0	193.0
20°	274.5	273.3	217.0	206.2	210.5	266.3	193.0	193.4	217.0	251.9	262.8
22.5°	294.6	291.9	276.3	301.1	276.3	271.8	245.3	253.6	261.4	260.6	260.1
25°	371.3	363.9	304.5	311.2	349.9	275.4	294.6	244.9	249.2	250.5	250.9
27.5°	456.7	448.0	428.3	366.0	356.8	344.2	275.8	255.7	284.1	285.0	283.2
30°	488.0	476.3	448.0	458.0	381.7	324.6	264.6	270.6	256.2	255.7	256.2
32.5°	663.2	641.8	587.0	496.4	403.1	293.7	260.6	241.5	257.5	261.9	261.9
35°	725.6	697.7	650.2	622.6	386.5	285.0	228.3	233.1	234.0	233.1	233.6
37.5°	807.4	770.8	727.6	634.5	398.3	247.9	217.8	216.1	233.1	236.2	237.5
40°	902.8	868.0	827.9	644.1	357.3	227.9	208.8	216.1	221.0	221.8	222.7
42.5°	1024.0	975.6	922.0	642.3	304.2	218.7	207.0	207.0	212.7	210.9	210.9
45°	1162.1	1100.2	1010.6	625.7	251.9	210.5	202.6	199.6	202.2	198.6	198.6
47.5°	1317.3	1249.3	1076.7	600.0	221.8	203.0	198.6	189.2	195.2	194.4	194.4
50°	1481.6	1410.5	1138.6	542.0	203.0	196.5	188.6	186.5	194.4	192.5	192.1
52.5°	1639.2	1577.9	1185.7	463.2	186.9	190.4	185.2	184.3	191.2	189.5	189.2
55°	1790.4	1754.7	1244.5	396.5	172.6	179.5	184.0	184.0	188.3	186.5	186.5
57.5°	1937.7	1944.7	1314.2	350.8	161.7	170.8	182.1	181.6	184.3	183.1	183.4
60°	2087.7	2132.9	1383.8	307.6	152.9	160.7	178.7	177.8	179.1	178.7	179.1
62.5°	2229.8	2304.2	1468.5	252.3	143.4	152.9	173.1	173.8	173.5	174.7	174.7
64°	2302.4	2378.7	1510.3	220.1	137.7	148.1	168.6	169.9	169.5	172.1	171.7
65°	2330.8	2406.2	1525.1	201.0	134.1	145.0	165.6	167.4	166.8	169.9	168.6
67.5°	2322.9	2374.0	1507.3	165.6	125.0	136.8	157.4	160.3	159.0	163.4	160.3
70°	2240.6	2198.3	1365.7	144.3	117.7	127.6	146.9	150.7	148.6	152.9	147.7
72.5°	2086.4	1897.2	1062.8	125.0	109.4	118.5	135.0	139.0	137.3	139.0	133.4
75°	1744.7	1463.2	621.7	108.4	98.5	105.9	121.1	125.0	123.2	119.4	117.1
77.5°	1213.2	925.1	245.7	95.0	88.5	92.9	103.2	106.8	104.2	96.7	95.4
80°	578.7	412.6	118.0	82.4	76.6	79.3	84.5	85.9	85.3	78.1	74.5
82.5°	177.3	135.0	81.4	66.3	62.3	61.4	66.7	64.9	64.0	58.7	46.3
85°	40.1	39.6	45.8	41.0	39.3	35.4	40.1	38.7	37.9	28.3	24.4
87.5°	1.3	2.6	2.2	5.7	6.1	4.9	7.8	8.3	6.1	2.6	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)