

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: P266121

Luminaire Tested: **LXF.LXT-AF24-60-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266121
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-AF24-60-D-U-T2U-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 5723 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

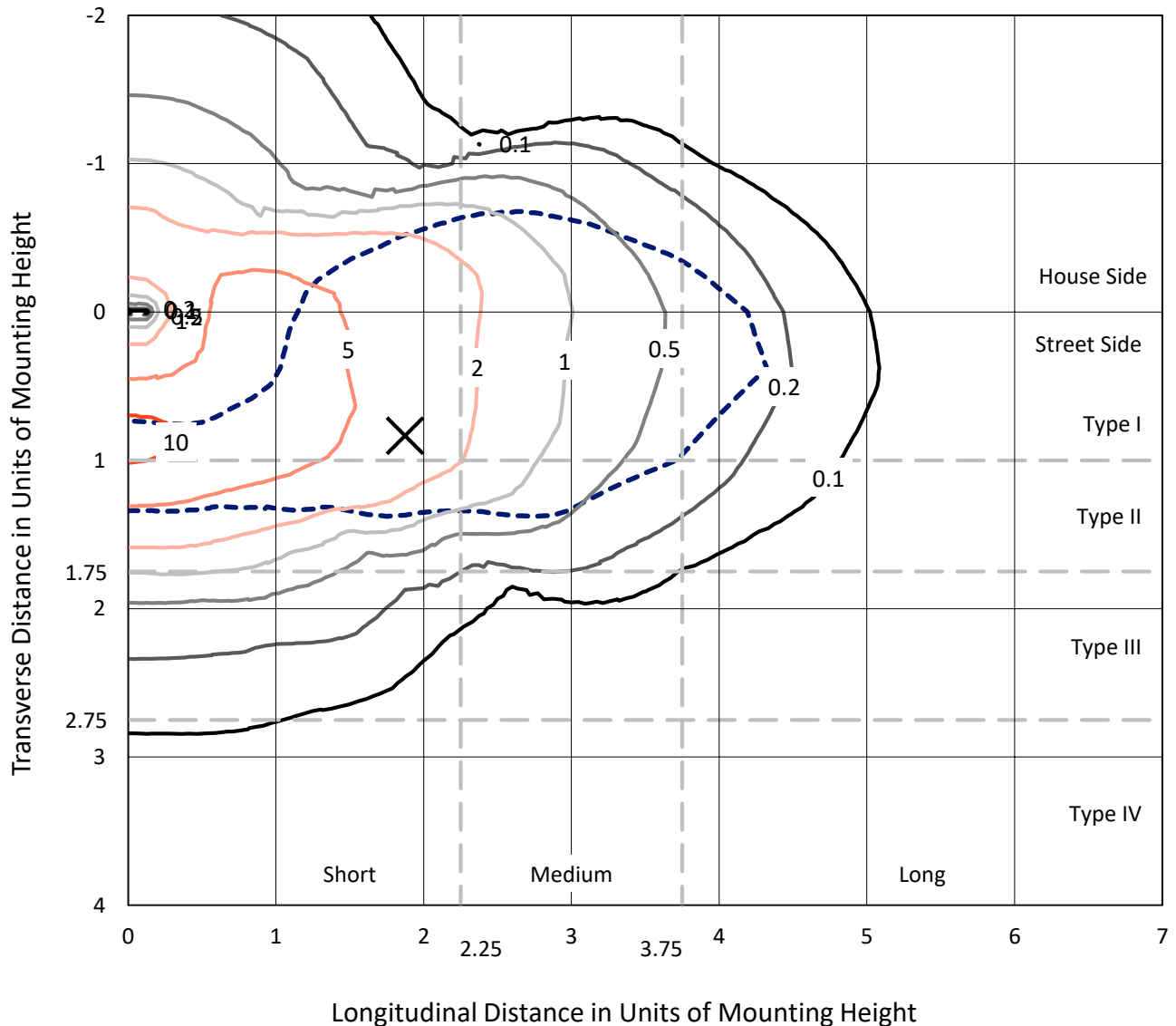
Input Watts (W): 64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

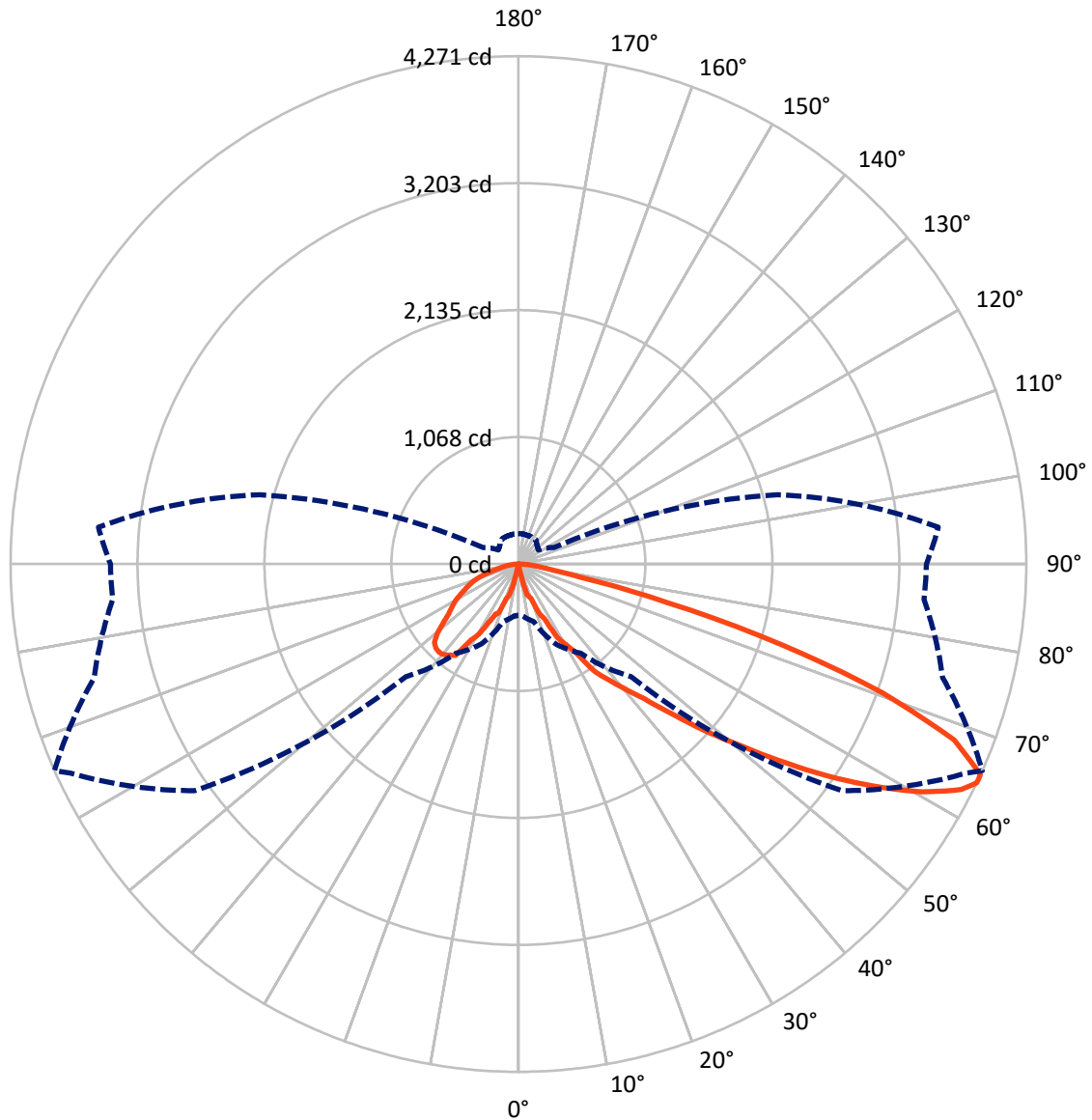
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.4 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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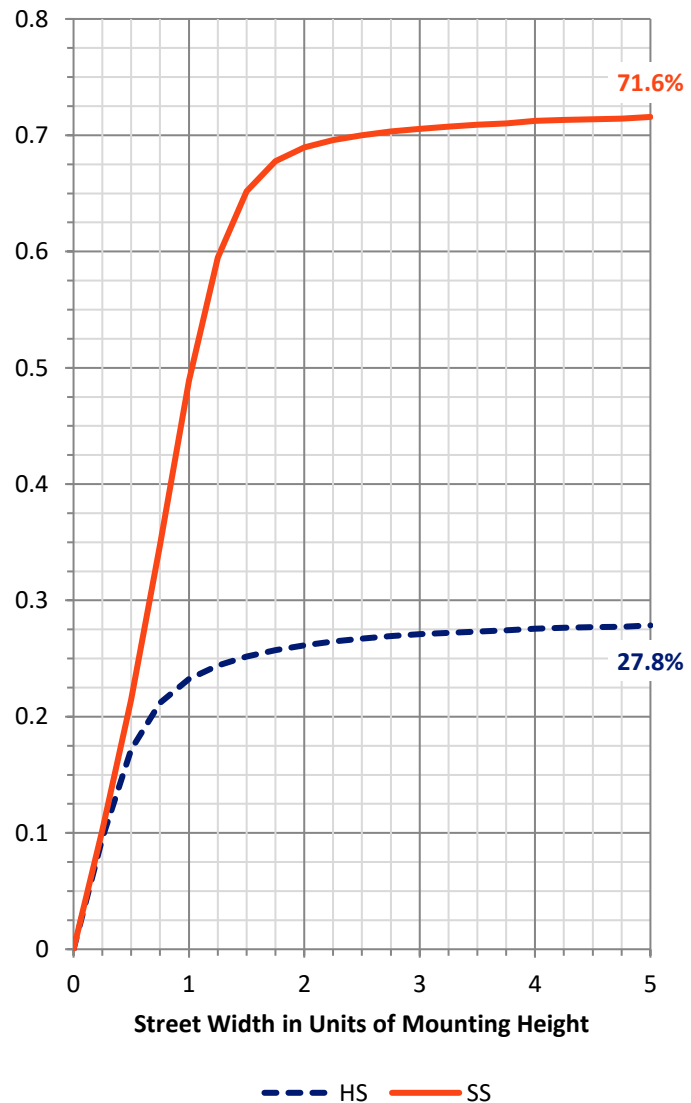
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.9	0.0	1611.9
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	4111.1	0.0	4111.1
	% Fixture	71.8	0.0	71.8
Total	Lumens	5723.0	0.0	5723.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	63.1	1.1
20°-30°	245.2	4.3
30°-40°	606.5	10.6
40°-50°	1140.8	19.9
50°-60°	1513.5	26.4
60°-70°	1362.6	23.8
70°-80°	695.8	12.2
80°-90°	91.2	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°	5723.0	100.0
0°-180°	5723.0	100.0



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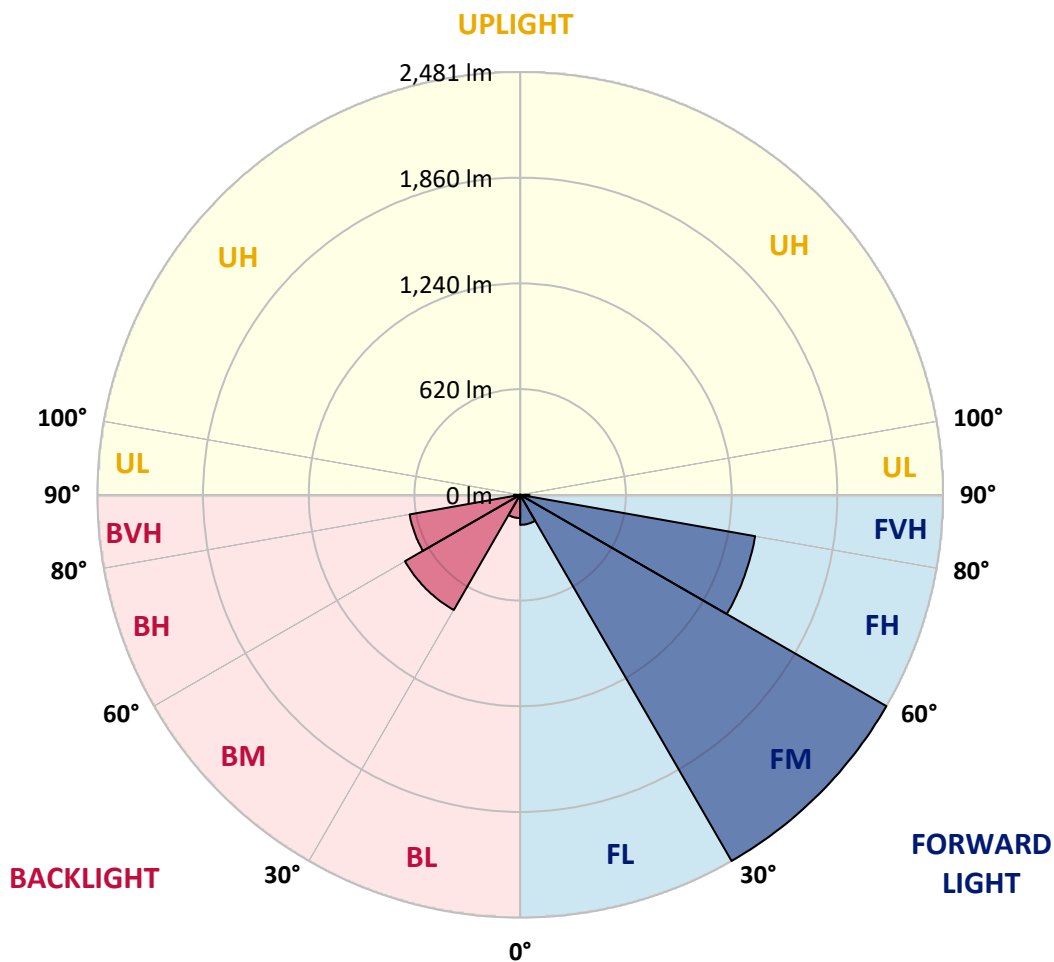
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.2	3.1			
FM	(30°-60°)	2480.7	43.3			
FH	(60°-80°)	1399.8	24.5			G1/1800
FVH	(80°-90°)	54.5	1.0			G1/100
BL	(0°-30°)	136.4	2.4	B1/500		
BM	(30°-60°)	780.1	13.6	B1/1000		
BH	(60°-80°)	658.6	11.5	B2/1000		G2/1000
BVH	(80°-90°)	36.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	2.5	1.9	2.5	3.2	3.2	2.5	1.9	0.7	0.7	0.0	0.0
5°	122.1	119.5	83.2	32.5	16.9	9.2	4.5	1.9	1.3	0.7	0.7
7.5°	127.3	127.3	127.3	128.5	125.9	122.1	20.8	4.5	4.0	1.3	0.7
10°	129.8	129.3	127.9	129.3	127.9	127.9	125.4	16.2	14.9	5.2	4.0
12.5°	244.2	242.8	235.0	152.0	133.0	133.0	133.8	109.1	109.8	35.0	90.3
15°	255.2	254.5	251.3	252.7	244.8	146.2	205.3	262.9	265.5	184.4	208.4
17.5°	283.8	279.3	268.9	265.5	262.3	299.3	287.0	286.4	286.4	215.0	226.6
20°	438.9	433.2	427.2	345.5	288.3	381.2	352.6	309.7	312.3	366.1	388.2
22.5°	504.5	499.9	491.0	472.1	492.2	411.1	431.1	451.3	453.9	478.5	441.5
25°	686.9	690.8	642.8	550.7	593.5	511.7	552.5	498.0	511.7	520.1	546.1
27.5°	889.0	875.3	860.3	783.1	675.3	719.5	609.1	651.4	701.9	709.0	664.9
30°	1131.8	1112.9	994.2	985.7	864.3	809.7	787.6	799.3	785.7	744.8	745.5
32.5°	1427.9	1416.8	1364.9	1205.2	1093.4	928.6	959.1	875.9	883.8	968.2	982.4
35°	1839.5	1820.8	1572.7	1487.0	1265.5	1191.5	1072.7	1107.2	1116.2	1100.0	1081.1
37.5°	2311.6	2294.7	2099.9	1751.2	1529.9	1359.7	1324.0	1262.9	1238.9	1242.1	1248.6
40°	2590.2	2578.4	2406.4	2115.5	1797.2	1618.1	1501.8	1418.2	1380.4	1427.9	1414.2
42.5°	2789.4	2772.6	2674.0	2390.2	2162.3	1983.6	1716.8	1606.3	1545.4	1647.3	1601.3
45°	2909.0	2883.6	2835.0	2577.1	2460.9	2397.9	2005.7	1826.0	1780.4	1857.1	1823.3
47.5°	2872.6	2831.1	2861.6	2709.0	2703.8	2764.2	2343.4	2079.1	2077.8	2105.1	2079.8
50°	2647.3	2617.4	2708.3	2725.2	2854.5	3054.4	2755.1	2364.2	2379.8	2369.4	2340.2
52.5°	2230.4	2236.9	2381.0	2520.0	2841.5	3227.2	3162.8	2699.9	2742.7	2628.5	2580.4
55°	1798.6	1820.8	1975.9	2149.3	2635.5	3268.8	3517.5	3070.6	3142.1	2880.4	2806.3
57.5°	1364.9	1394.8	1579.8	1709.7	2225.2	3125.3	3727.7	3419.4	3524.0	3120.6	3016.8
60°	868.8	886.9	1114.8	1333.1	1659.7	2639.5	3777.2	3774.6	3890.7	3364.8	3203.7
62.5°	562.2	572.7	669.4	960.9	1153.9	1842.9	3616.0	4060.2	4179.1	3602.5	3364.2
64°	430.5	439.6	501.3	741.6	915.6	1339.6	3323.3	4158.3	4270.6	3692.8	3423.9
65°	374.1	379.9	425.3	604.5	779.2	1050.6	3035.0	4160.9	4268.7	3718.8	3434.3
67.5°	311.1	313.0	329.9	382.5	550.7	585.6	1915.5	3851.8	3953.1	3662.8	3351.8
70°	281.8	285.8	307.8	311.7	425.3	405.1	713.7	3169.4	3251.1	3512.8	3168.7
72.5°	242.8	247.5	276.0	299.3	329.1	321.5	360.9	2225.9	2312.9	3041.4	2960.3
75°	198.0	202.6	229.8	264.3	276.0	252.7	283.8	1143.5	1289.5	2248.0	2649.2
77.5°	157.2	161.7	183.2	207.8	248.7	193.6	226.6	438.4	524.0	1396.8	1970.7
80°	111.7	114.3	137.0	157.2	187.7	167.5	164.8	239.6	252.0	694.1	992.2
82.5°	68.8	70.7	91.5	105.2	125.4	167.5	118.1	164.8	168.8	291.5	303.8
85°	38.3	39.6	55.2	59.7	69.4	85.1	79.2	90.3	92.9	129.8	76.6
87.5°	4.5	5.8	12.9	14.4	12.9	14.4	14.4	12.9	13.7	11.7	6.5
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	0.7	0.7	0.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
5°	0.7	0.7	1.3	1.3	1.9	1.9	2.5	4.0	4.0	4.0	4.5
7.5°	0.7	0.7	1.3	1.9	2.5	6.5	32.5	112.4	126.7	131.2	131.2
10°	4.0	4.0	4.0	4.5	12.9	126.7	142.2	146.8	148.7	148.7	149.9
12.5°	99.4	99.4	53.2	20.8	118.8	148.0	151.3	154.6	156.5	158.5	161.1
15°	209.8	210.5	204.5	200.6	211.7	159.7	161.7	260.4	271.4	276.0	276.6
17.5°	227.9	226.6	227.9	290.2	305.9	238.9	266.8	285.0	287.0	287.6	287.6
20°	409.1	407.1	323.4	307.1	313.6	396.7	287.6	288.3	323.4	375.3	391.5
22.5°	438.9	435.0	411.7	448.8	411.7	405.1	365.6	377.8	389.5	388.2	387.7
25°	553.3	542.1	453.9	463.6	521.3	410.3	438.9	364.9	371.4	373.3	374.1
27.5°	680.5	667.5	638.2	545.5	531.7	512.9	411.1	381.2	423.3	424.7	422.1
30°	727.3	709.8	667.5	682.4	568.7	483.7	394.1	403.2	381.8	381.2	381.8
32.5°	988.2	956.4	874.6	739.6	600.6	437.7	388.2	359.7	383.8	390.3	390.3
35°	1081.1	1039.6	968.8	927.9	576.0	424.7	340.3	347.4	348.7	347.4	348.1
37.5°	1203.2	1148.7	1084.3	945.5	593.5	369.5	324.6	322.0	347.4	352.0	353.9
40°	1345.4	1293.5	1233.7	959.7	532.4	339.6	311.1	322.0	329.1	330.4	331.8
42.5°	1526.0	1453.8	1374.0	957.1	453.3	325.9	308.4	308.4	316.8	314.2	314.2
45°	1731.8	1639.5	1505.7	932.4	375.3	313.6	301.9	297.3	301.3	296.1	296.1
47.5°	1962.8	1861.6	1604.6	894.2	330.4	302.5	296.1	281.8	291.0	289.7	289.7
50°	2207.8	2101.9	1696.7	807.8	302.5	292.8	281.2	277.9	289.7	287.0	286.4
52.5°	2442.9	2351.3	1766.8	690.3	278.6	283.8	276.0	274.6	285.0	282.4	281.8
55°	2668.1	2614.8	1854.6	590.8	257.2	267.5	274.1	274.1	280.5	277.9	277.9
57.5°	2887.5	2897.9	1958.3	522.8	240.8	254.5	271.4	270.7	274.6	272.7	273.4
60°	3110.9	3178.5	2062.2	458.5	227.9	239.6	266.2	264.9	266.8	266.2	266.8
62.5°	3322.7	3433.6	2188.2	376.0	213.6	227.9	257.8	259.2	258.4	260.4	260.4
64°	3431.0	3544.7	2250.6	327.9	205.3	220.8	251.3	253.2	252.7	256.5	255.8
65°	3473.2	3585.6	2272.6	299.3	200.1	216.2	246.8	249.3	248.7	253.2	251.3
67.5°	3461.6	3537.5	2246.0	246.8	186.4	203.8	234.4	238.9	237.1	243.5	238.9
70°	3338.8	3275.8	2035.0	215.0	175.3	190.3	218.8	224.7	221.4	227.9	220.2
72.5°	3108.9	2827.1	1583.7	186.4	163.0	176.5	201.3	207.1	204.5	207.1	198.6
75°	2600.0	2180.5	926.6	161.7	146.8	157.8	180.5	186.4	183.8	178.0	174.7
77.5°	1807.7	1378.4	366.1	141.6	131.8	138.2	153.9	159.1	155.1	144.2	142.2
80°	862.4	614.9	176.0	122.7	114.3	118.1	125.9	127.9	127.3	116.2	111.0
82.5°	264.3	201.3	121.5	98.8	92.9	91.5	99.4	96.7	95.5	87.7	68.8
85°	59.7	59.1	68.2	61.1	58.4	52.6	59.7	57.9	56.6	42.2	36.3
87.5°	1.9	4.0	3.2	8.4	9.2	7.1	11.7	12.3	9.2	4.0	0.7
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)