

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: P253991

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253991
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-AF24-70-D-U-T2U
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 930mA 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: 7555.5 lumens
Efficiency: N/A
Efficacy: 102.1 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): 74
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

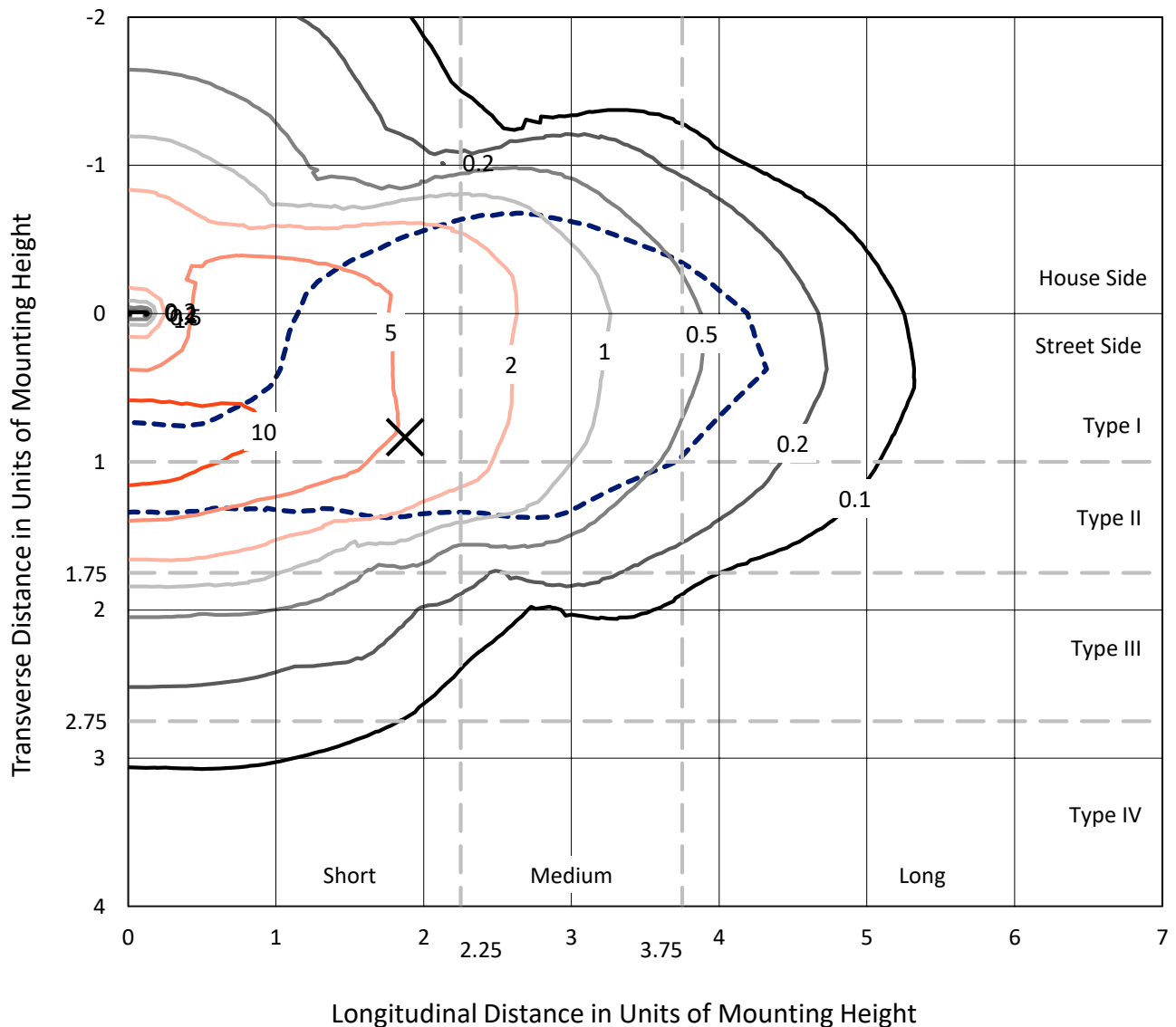


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

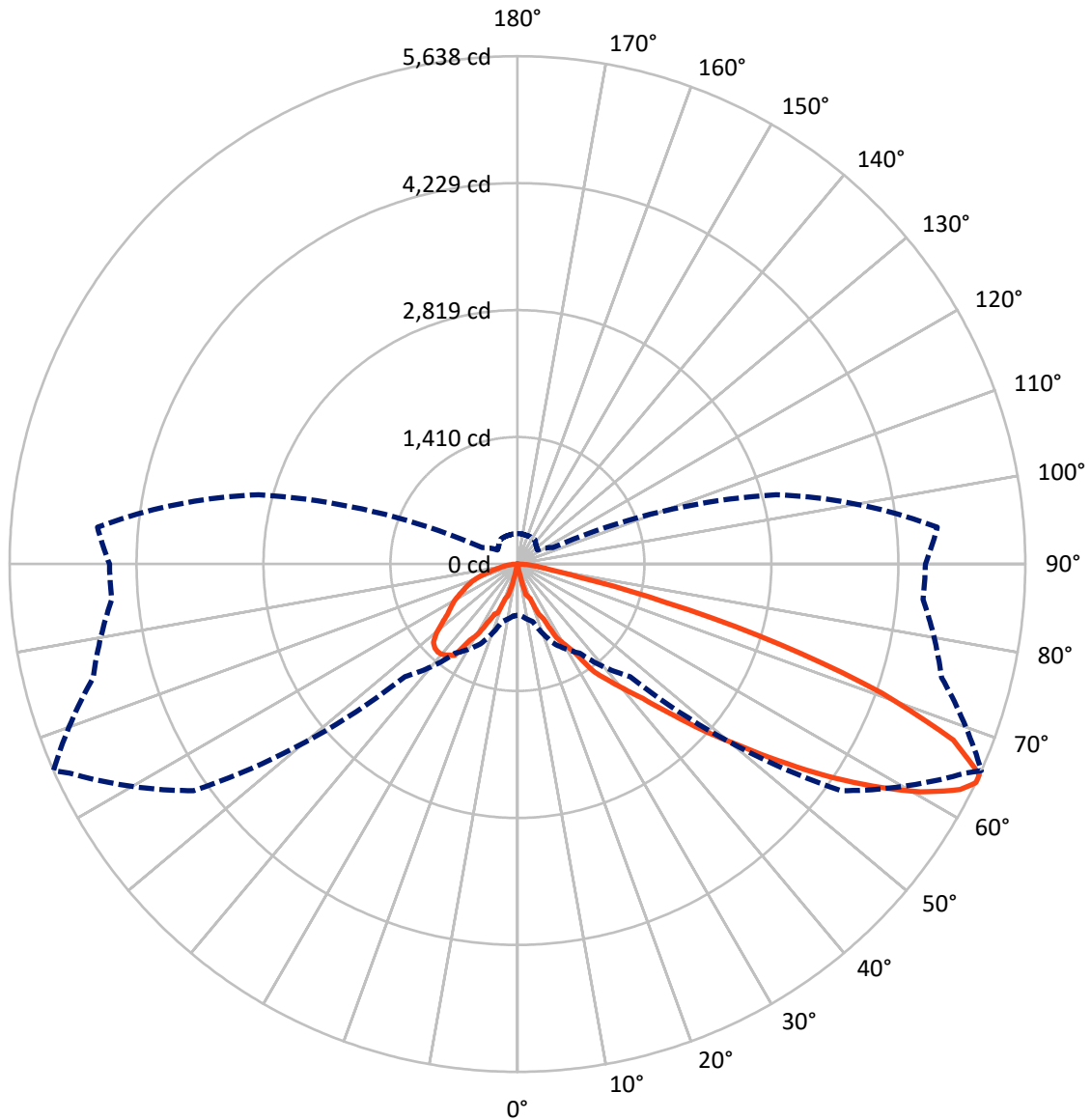


Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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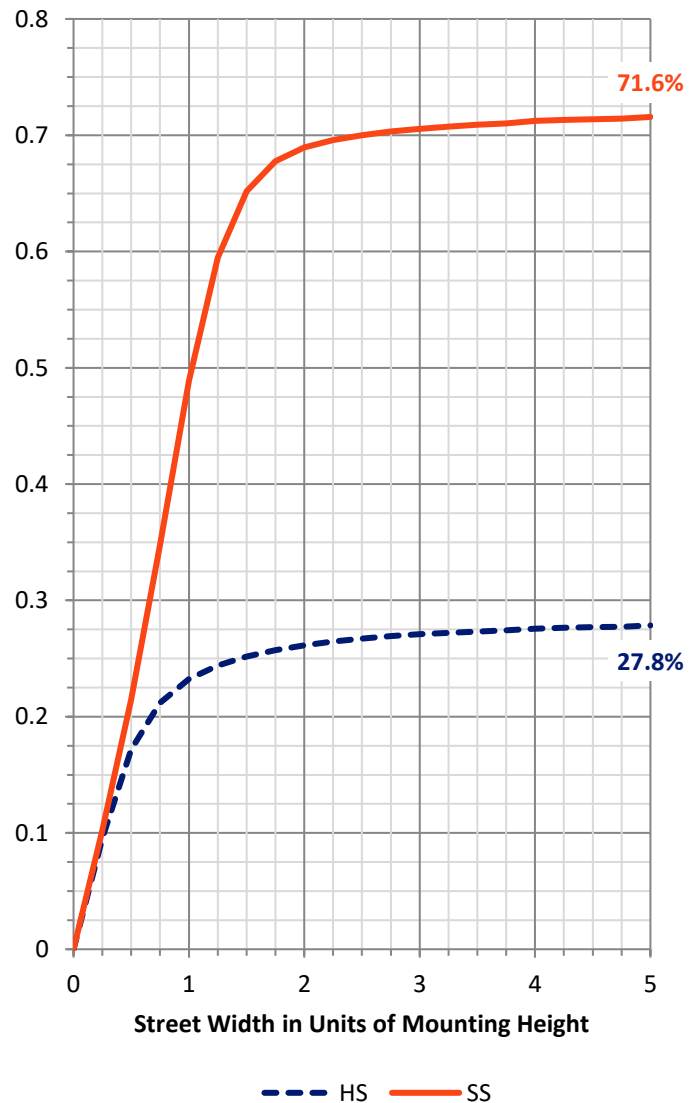
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.0	0.0	2128.0
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	5427.5	0.0	5427.5
	% Fixture	71.8	0.0	71.8
Total	Lumens	7555.5	0.0	7555.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	83.3	1.1
20°-30°	323.7	4.3
30°-40°	800.7	10.6
40°-50°	1506.1	19.9
50°-60°	1998.1	26.4
60°-70°	1798.9	23.8
70°-80°	918.6	12.2
80°-90°	120.4	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°	7555.5	100.0
0°-180°	7555.5	100.0



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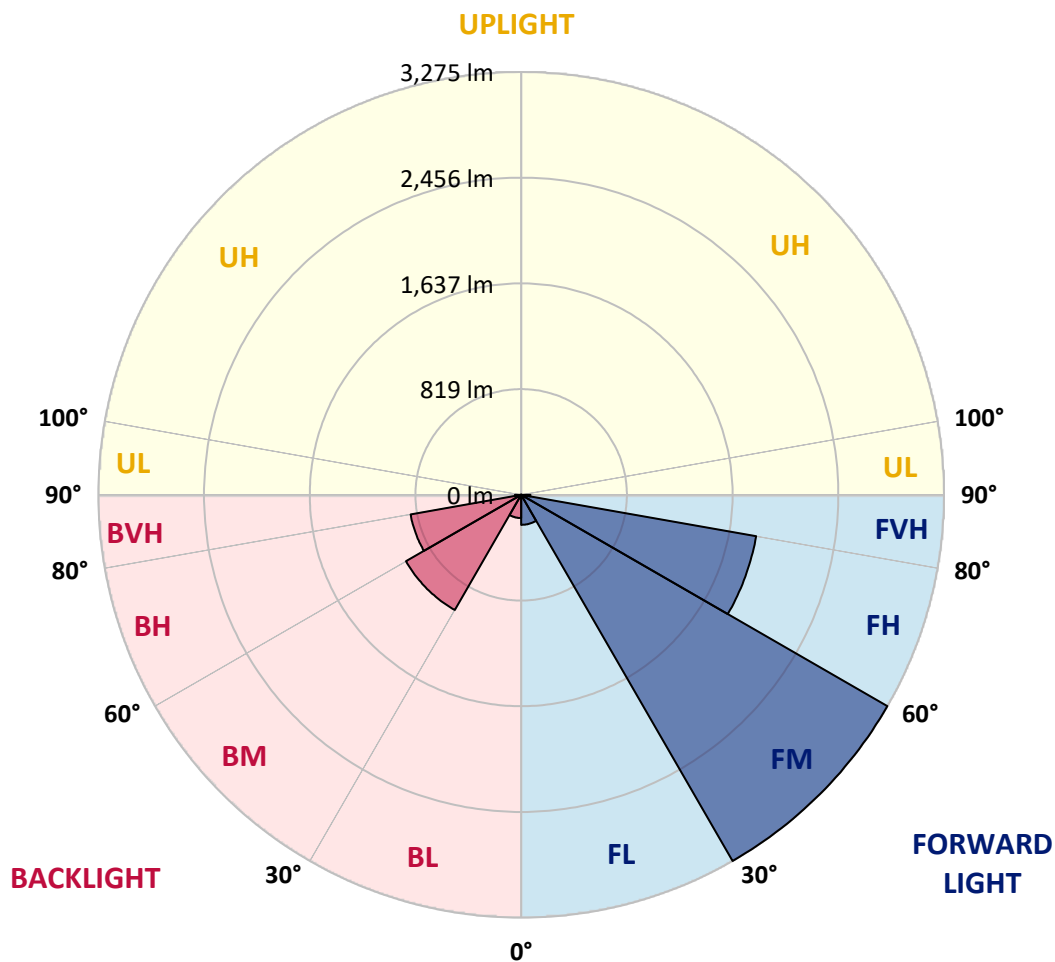
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.6	3.1			
FM (30°-60°)	3275.0	43.3			
FH (60°-80°)	1848.0	24.5			G2/5000
FVH (80°-90°)	72.0	1.0			G1/100
BL (0°-30°)	180.1	2.4	B1/500		
BM (30°-60°)	1029.9	13.6	B2/2500		
BH (60°-80°)	869.5	11.5	B2/1000		G2/1000
BVH (80°-90°)	48.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	3.5	2.6	3.5	4.3	4.3	3.5	2.6	0.8	0.8	0.0	0.0
5°	161.1	157.7	109.8	42.9	22.3	12.0	6.0	2.6	1.7	0.8	0.8
7.5°	168.0	168.0	168.0	169.7	166.3	161.1	27.4	6.0	5.1	1.7	0.8
10°	171.4	170.6	168.9	170.6	168.9	168.9	165.4	21.5	19.7	6.9	5.1
12.5°	322.3	320.6	310.4	200.6	175.7	175.7	176.6	144.0	144.8	46.3	119.2
15°	336.9	336.0	331.7	333.5	323.2	192.9	270.9	347.2	350.6	243.5	275.2
17.5°	374.6	368.6	354.9	350.6	346.4	395.2	378.9	378.1	378.1	283.8	299.2
20°	579.5	571.8	564.1	456.0	380.6	503.2	465.4	408.9	412.4	483.4	512.6
22.5°	666.0	660.1	648.0	623.2	649.8	542.7	569.2	595.8	599.2	631.8	582.9
25°	906.9	912.1	848.6	726.9	783.5	675.5	729.5	657.6	675.5	686.6	721.0
27.5°	1173.5	1155.5	1135.9	1033.8	891.5	949.8	804.0	859.8	926.7	936.1	877.8
30°	1494.1	1469.3	1312.4	1301.3	1141.0	1069.0	1039.8	1055.3	1037.3	983.3	984.1
32.5°	1885.1	1870.5	1801.9	1591.0	1443.6	1225.8	1266.1	1156.4	1166.7	1278.2	1297.0
35°	2428.6	2403.7	2076.3	1963.0	1670.8	1573.0	1416.2	1461.6	1473.6	1452.2	1427.3
37.5°	3051.8	3029.5	2772.3	2312.0	2019.6	1795.1	1747.9	1667.3	1635.6	1639.9	1648.5
40°	3419.5	3404.1	3177.0	2792.9	2372.8	2136.2	1982.8	1872.2	1822.5	1885.1	1867.1
42.5°	3682.7	3660.4	3530.1	3155.5	2854.6	2618.9	2266.6	2120.8	2040.3	2174.8	2113.9
45°	3840.5	3807.0	3742.7	3402.3	3248.9	3165.8	2648.0	2410.6	2350.5	2451.7	2407.1
47.5°	3792.4	3737.6	3777.9	3576.4	3569.6	3649.3	3093.8	2744.9	2743.1	2779.2	2745.7
50°	3495.0	3455.5	3575.5	3597.8	3768.4	4032.5	3637.3	3121.2	3141.8	3128.1	3089.5
52.5°	2944.7	2953.2	3143.5	3326.9	3751.3	4260.5	4175.6	3564.4	3620.9	3470.1	3406.6
55°	2374.6	2403.7	2608.6	2837.5	3479.6	4315.3	4643.7	4053.9	4148.2	3802.7	3705.0
57.5°	1801.9	1841.3	2085.7	2257.1	2937.7	4125.9	4921.4	4514.2	4652.3	4119.9	3982.8
60°	1147.0	1171.0	1471.9	1759.9	2191.1	3484.7	4986.6	4983.1	5136.5	4442.2	4229.6
62.5°	742.4	756.1	883.8	1268.7	1523.3	2432.9	4774.0	5360.4	5517.2	4756.0	4441.3
64°	568.4	580.3	661.7	979.0	1208.7	1768.5	4387.3	5489.8	5638.1	4875.1	4520.2
65°	493.8	501.5	561.5	798.1	1028.7	1387.0	4006.7	5493.1	5635.5	4909.4	4533.9
67.5°	410.6	413.2	435.5	504.9	726.9	773.2	2528.8	5085.2	5218.9	4835.7	4425.1
70°	372.0	377.2	406.3	411.4	561.5	534.9	942.1	4184.2	4292.2	4637.6	4183.4
72.5°	320.6	326.6	364.4	395.2	434.7	424.3	476.6	2938.6	3053.5	4015.3	3908.2
75°	261.5	267.5	303.5	348.9	364.4	333.5	374.6	1509.6	1702.5	2967.8	3497.6
77.5°	207.5	213.5	241.7	274.4	328.4	255.4	299.2	578.7	691.8	1844.0	2601.7
80°	147.4	150.9	180.9	207.5	247.8	221.2	217.8	316.3	332.6	916.4	1309.9
82.5°	90.8	93.4	120.9	138.9	165.4	221.2	156.0	217.8	222.9	384.9	401.2
85°	50.5	52.3	72.8	78.9	91.8	112.3	104.5	119.2	122.5	171.4	101.2
87.5°	6.0	7.7	17.2	18.8	17.2	18.8	18.8	17.2	18.0	15.4	8.6
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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.8	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
5°	0.8	0.8	1.7	1.7	2.6	2.6	3.5	5.1	5.1	5.1	6.0
7.5°	0.8	0.8	1.7	2.6	3.5	8.6	42.9	148.3	167.2	173.2	173.2
10°	5.1	5.1	5.1	6.0	17.2	167.2	187.7	193.7	196.3	196.3	198.0
12.5°	131.1	131.1	70.3	27.4	156.9	195.5	199.8	204.0	206.6	209.2	212.6
15°	276.9	277.7	270.1	264.8	279.5	210.8	213.5	343.7	358.3	364.4	365.2
17.5°	300.8	299.2	300.8	383.2	403.8	315.5	352.3	376.3	378.9	379.7	379.7
20°	540.0	537.5	426.9	405.5	414.1	523.8	379.7	380.6	426.9	495.5	516.9
22.5°	579.5	574.4	543.5	592.4	543.5	534.9	482.6	498.9	514.3	512.6	511.8
25°	730.4	715.8	599.2	612.0	688.3	541.8	579.5	481.8	490.3	493.0	493.8
27.5°	898.4	881.3	842.7	720.1	702.1	677.2	542.7	503.2	558.9	560.7	557.2
30°	960.1	936.9	881.3	900.9	750.9	638.6	520.4	532.3	504.0	503.2	504.0
32.5°	1304.7	1262.7	1154.7	976.4	793.0	577.8	512.6	475.0	506.7	515.2	515.2
35°	1427.3	1372.4	1279.0	1225.0	760.4	560.7	449.2	458.6	460.3	458.6	459.5
37.5°	1588.4	1516.4	1431.6	1248.1	783.5	487.7	428.6	425.2	458.6	464.6	467.2
40°	1776.1	1707.6	1628.7	1267.0	703.0	448.4	410.6	425.2	434.7	436.3	438.0
42.5°	2014.5	1919.4	1813.9	1263.5	598.3	430.4	407.2	407.2	418.3	414.9	414.9
45°	2286.3	2164.6	1987.9	1231.0	495.5	414.1	398.6	392.6	397.7	390.9	390.9
47.5°	2591.4	2457.7	2118.2	1180.4	436.3	399.5	390.9	372.0	384.0	382.4	382.4
50°	2914.6	2774.9	2240.0	1066.4	399.5	386.6	371.2	366.9	382.4	378.9	378.1
52.5°	3225.0	3104.0	2332.5	911.2	367.8	374.6	364.4	362.6	376.3	372.9	372.0
55°	3522.4	3452.2	2448.2	780.1	339.5	353.2	361.7	361.7	370.3	366.9	366.9
57.5°	3812.1	3825.8	2585.4	690.1	318.0	336.0	358.3	357.4	362.6	360.1	360.9
60°	4107.0	4196.1	2722.6	605.2	300.8	316.3	351.5	349.7	352.3	351.5	352.3
62.5°	4386.5	4533.1	2888.9	496.3	282.0	300.8	340.3	342.1	341.2	343.7	343.7
64°	4529.6	4679.7	2971.2	432.9	270.9	291.4	331.7	334.3	333.5	338.6	337.8
65°	4585.4	4733.7	3000.3	395.2	264.0	285.5	325.7	329.2	328.4	334.3	331.7
67.5°	4569.9	4670.3	2965.2	325.7	246.0	269.1	309.4	315.5	312.9	321.5	315.5
70°	4407.9	4324.7	2686.6	283.8	231.5	251.1	288.9	296.7	292.4	300.8	290.6
72.5°	4104.5	3732.4	2090.8	246.0	215.1	233.1	265.8	273.4	270.1	273.4	262.3
75°	3432.4	2878.6	1223.2	213.5	193.7	208.3	238.3	246.0	242.6	234.9	230.6
77.5°	2386.5	1819.9	483.4	186.9	174.0	182.6	203.2	210.0	204.9	190.3	187.7
80°	1138.4	811.8	232.3	162.0	150.9	156.0	166.3	168.9	168.0	153.4	146.6
82.5°	348.9	265.8	160.3	130.3	122.5	120.9	131.1	127.8	126.0	115.7	90.8
85°	78.9	78.1	90.0	80.6	77.1	69.5	78.9	76.3	74.6	55.8	48.0
87.5°	2.6	5.1	4.3	11.2	12.0	9.4	15.4	16.3	12.0	5.1	0.8
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)