

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: P266208

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266208
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-AF24-90-D-U-T2U-7027
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1180mA 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: 7562.3 lumens
Efficiency: N/A
Efficacy: 80.5 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

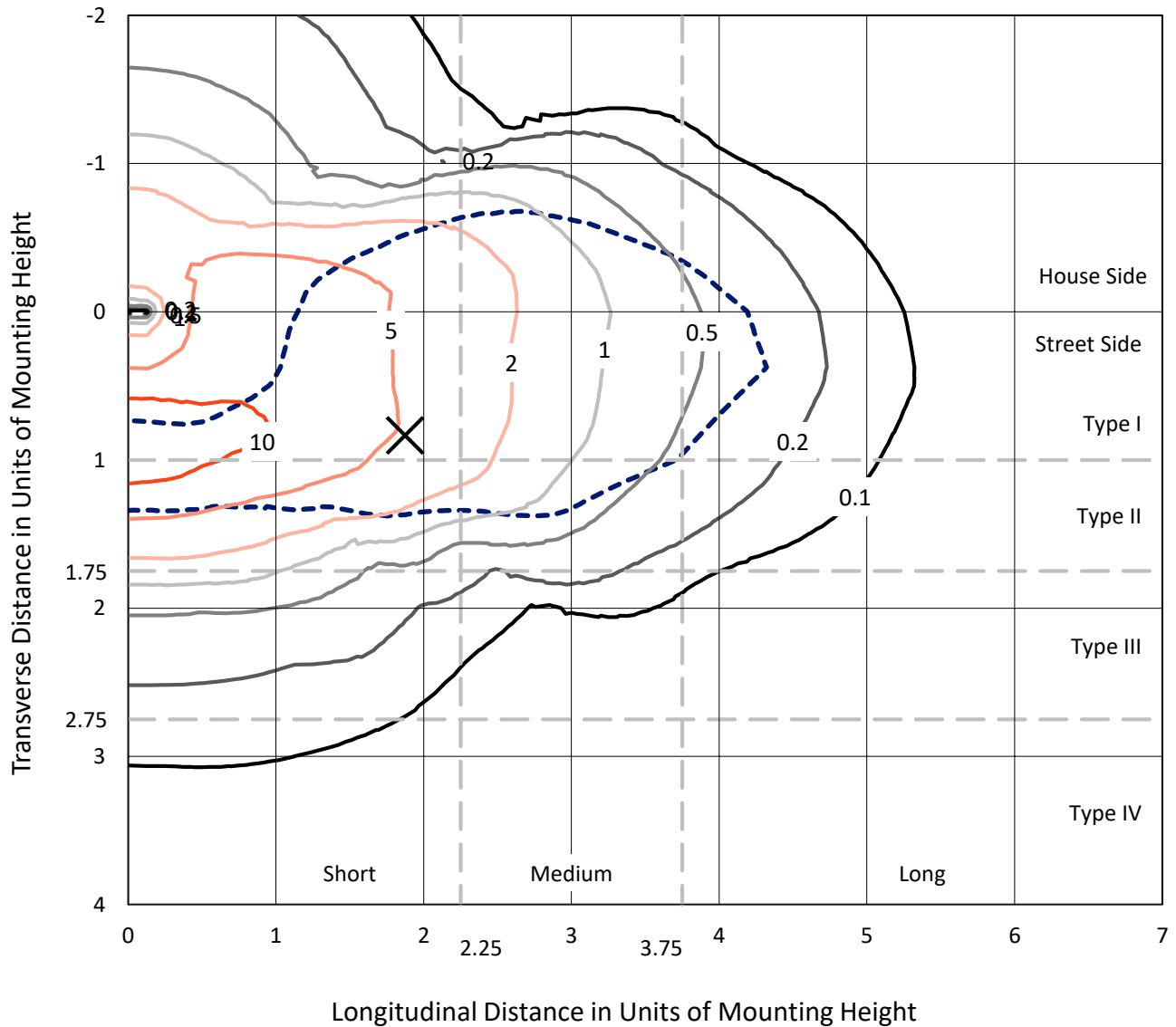
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

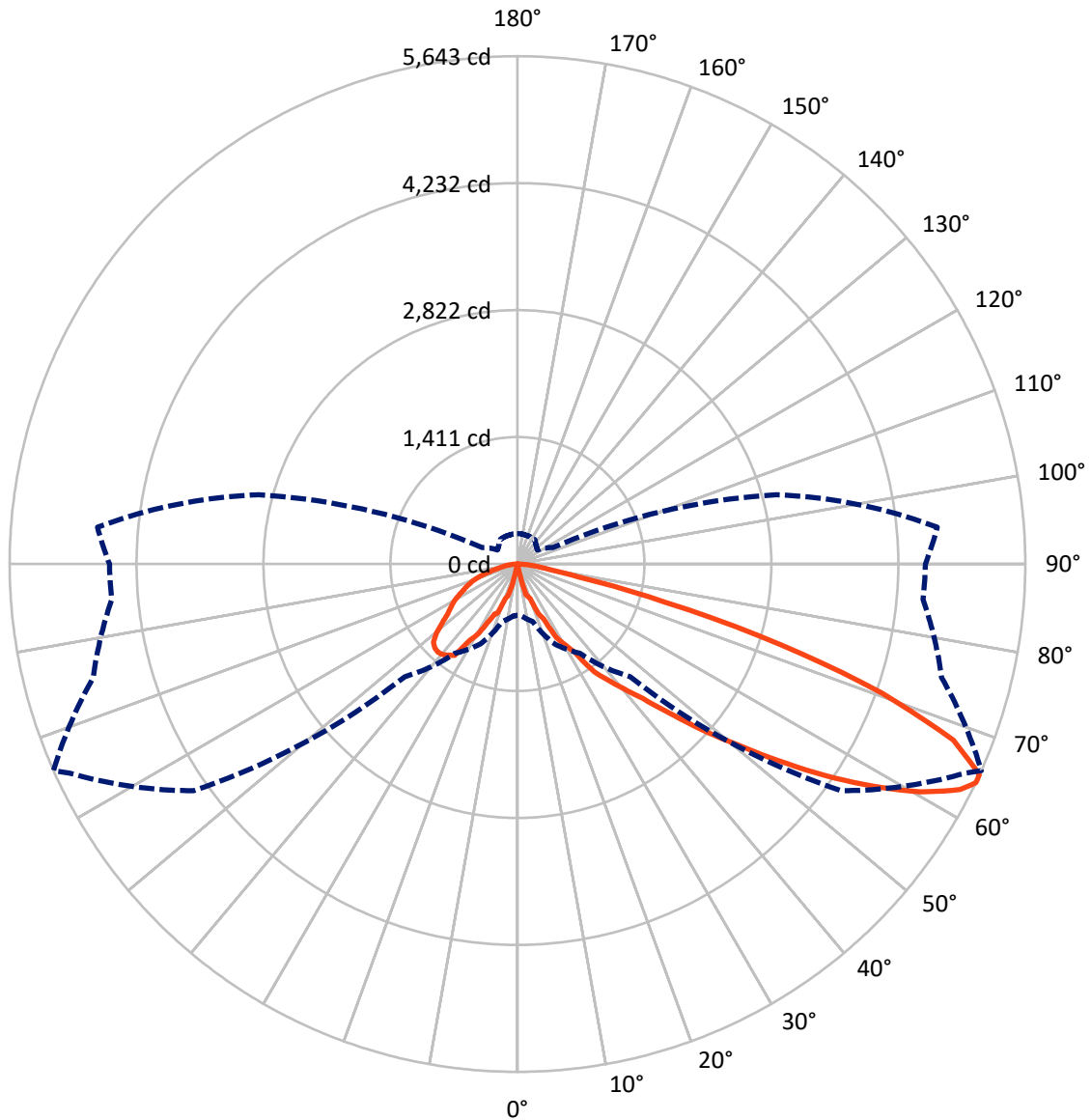
× Max cd
 - - - 1/2 Max cd



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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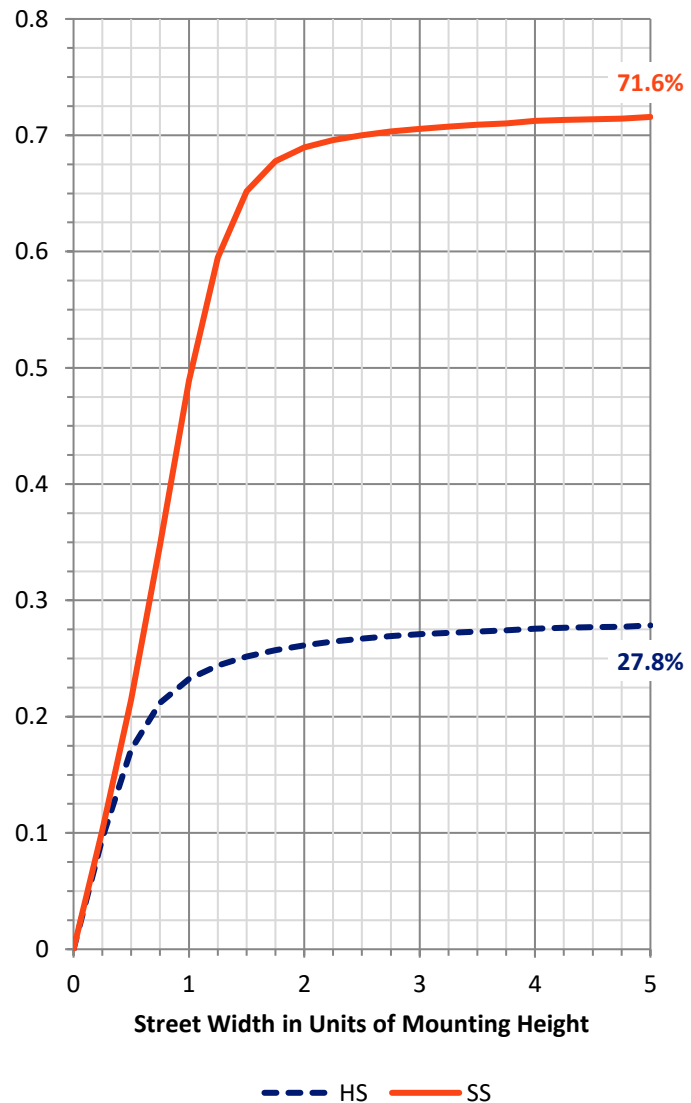
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2129.9	0.0	2129.9
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	5432.4	0.0	5432.4
	% Fixture	71.8	0.0	71.8
Total	Lumens	7562.3	0.0	7562.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	0.1
10°-20°	83.4	1.1
20°-30°	324.0	4.3
30°-40°	801.4	10.6
40°-50°	1507.5	19.9
50°-60°	1999.9	26.4
60°-70°	1800.5	23.8
70°-80°	919.4	12.2
80°-90°	120.5	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°	7562.3	100.0
0°-180°	7562.3	100.0



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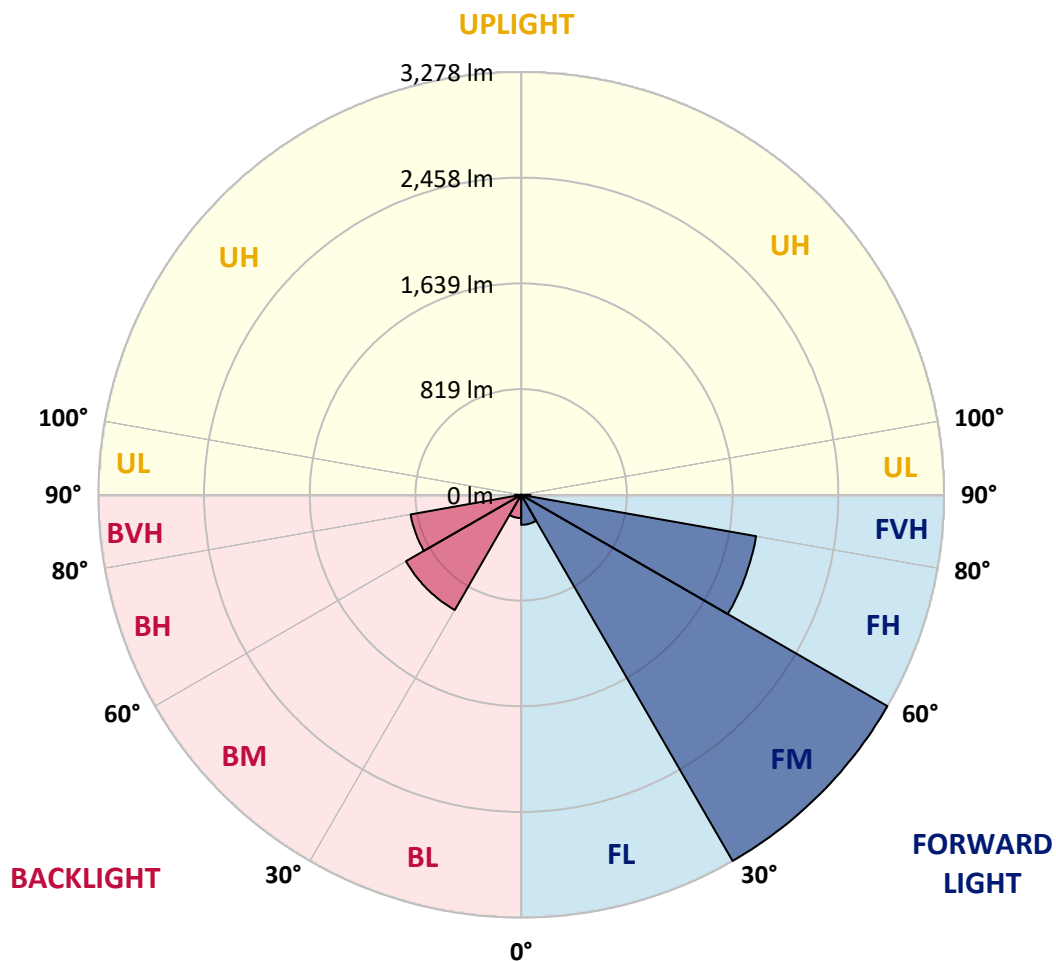
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	232.8	3.1			
FM (30°-60°)	3277.9	43.3			
FH (60°-80°)	1849.6	24.5			G2/5000
FVH (80°-90°)	72.0	1.0			G1/100
BL (0°-30°)	180.3	2.4	B1/500		
BM (30°-60°)	1030.9	13.6	B2/2500		
BH (60°-80°)	870.3	11.5	B2/1000		G2/1000
BVH (80°-90°)	48.5	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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	3.5	2.5	3.5	4.3	4.3	3.5	2.5	0.9	0.9	0.0	0.0
5°	161.2	157.9	109.9	42.8	22.3	11.9	6.0	2.5	1.6	0.9	0.9
7.5°	168.2	168.2	168.2	169.9	166.5	161.2	27.5	6.0	5.1	1.6	0.9
10°	171.5	170.8	169.1	170.8	169.1	169.1	165.6	21.5	19.8	6.8	5.1
12.5°	322.6	321.0	310.6	200.9	175.9	175.9	176.7	144.2	144.9	46.4	119.3
15°	337.3	336.3	332.1	333.8	323.5	193.0	271.1	347.6	350.9	243.7	275.4
17.5°	375.0	368.9	355.2	350.9	346.7	395.6	379.3	378.4	378.4	284.0	299.4
20°	580.0	572.3	564.6	456.5	380.9	503.7	466.0	409.3	412.7	483.8	513.1
22.5°	666.7	660.7	648.7	623.8	650.4	543.1	569.7	596.4	599.8	632.3	583.4
25°	907.7	912.9	849.4	727.5	784.2	676.2	730.1	658.1	676.2	687.3	721.6
27.5°	1174.7	1156.6	1136.8	1034.8	892.3	950.6	804.8	860.5	927.5	936.9	878.6
30°	1495.5	1470.6	1313.6	1302.5	1142.0	1069.9	1040.7	1056.1	1038.3	984.2	985.0
32.5°	1886.8	1872.2	1803.5	1592.4	1445.0	1226.9	1267.2	1157.5	1167.7	1279.2	1298.2
35°	2430.8	2405.9	2078.0	1964.9	1672.3	1574.5	1417.4	1462.9	1474.8	1453.5	1428.6
37.5°	3054.5	3032.1	2774.9	2314.0	2021.5	1796.7	1749.4	1668.8	1637.2	1641.4	1649.9
40°	3422.6	3407.1	3179.8	2795.3	2374.9	2138.1	1984.5	1874.0	1824.1	1886.8	1868.7
42.5°	3686.0	3663.6	3533.4	3158.4	2857.1	2621.3	2268.6	2122.8	2042.0	2176.8	2115.9
45°	3843.8	3810.4	3746.1	3405.5	3251.9	3168.6	2650.4	2412.7	2352.8	2453.9	2409.3
47.5°	3795.9	3740.9	3781.2	3579.7	3572.7	3652.6	3096.5	2747.3	2745.6	2781.7	2748.3
50°	3498.1	3458.7	3578.8	3601.0	3771.9	4036.1	3640.6	3124.0	3144.5	3131.0	3092.2
52.5°	2947.2	2955.9	3146.4	3329.9	3754.6	4264.3	4179.4	3567.6	3624.2	3473.2	3409.7
55°	2376.6	2405.9	2611.0	2840.0	3482.6	4319.2	4647.8	4057.6	4152.0	3806.1	3708.4
57.5°	1803.5	1843.1	2087.5	2259.1	2940.4	4129.6	4925.9	4518.3	4656.5	4123.6	3986.3
60°	1148.0	1172.1	1473.2	1761.4	2193.1	3487.8	4991.1	4987.6	5141.2	4446.3	4233.4
62.5°	743.1	756.7	884.7	1269.8	1524.8	2435.0	4778.3	5365.1	5522.2	4760.3	4445.4
64°	568.8	580.8	662.4	979.8	1209.7	1770.1	4391.4	5494.8	5643.2	4879.6	4524.4
65°	494.2	502.0	562.0	798.9	1029.5	1388.3	4010.4	5498.2	5640.5	4913.8	4538.0
67.5°	411.0	413.6	435.9	505.3	727.5	773.9	2531.2	5089.7	5223.6	4840.1	4429.1
70°	372.3	377.5	406.8	411.9	562.0	535.4	943.0	4188.0	4296.1	4641.8	4187.1
72.5°	321.0	327.0	364.6	395.6	435.0	424.7	477.1	2941.3	3056.3	4018.9	3911.7
75°	261.6	267.8	303.7	349.3	364.6	333.8	375.0	1510.9	1704.1	2970.4	3500.7
77.5°	207.7	213.6	242.0	274.5	328.6	255.7	299.4	579.1	692.5	1845.6	2604.0
80°	147.6	151.1	181.1	207.7	247.9	221.3	217.8	316.7	332.9	917.2	1311.0
82.5°	91.0	93.6	121.0	139.0	165.6	221.3	156.1	217.8	223.0	385.3	401.5
85°	50.7	52.3	72.9	79.0	91.7	112.4	104.7	119.3	122.7	171.5	101.2
87.5°	6.0	7.7	17.2	18.9	17.2	18.9	18.9	17.2	18.1	15.5	8.5
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	0.9	0.9	0.9	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.0
5°	0.9	0.9	1.6	1.6	2.5	2.5	3.5	5.1	5.1	5.1	6.0
7.5°	0.9	0.9	1.6	2.5	3.5	8.5	42.8	148.4	167.4	173.4	173.4
10°	5.1	5.1	5.1	6.0	17.2	167.4	187.8	193.9	196.5	196.5	198.2
12.5°	131.3	131.3	70.3	27.5	157.1	195.7	200.0	204.3	206.8	209.3	212.8
15°	277.1	277.9	270.3	265.1	279.7	211.1	213.6	344.1	358.7	364.6	365.5
17.5°	301.1	299.4	301.1	383.5	404.1	315.8	352.7	376.7	379.3	380.2	380.2
20°	540.5	537.9	427.4	405.9	414.4	524.3	380.2	380.9	427.4	496.0	517.3
22.5°	580.0	574.8	544.0	592.9	544.0	535.4	483.1	499.4	514.8	513.1	512.3
25°	731.0	716.5	599.8	612.6	689.0	542.2	580.0	482.2	490.7	493.3	494.2
27.5°	899.3	882.0	843.4	720.7	702.7	677.9	543.1	503.7	559.5	561.1	557.7
30°	960.9	937.8	882.0	901.8	751.6	639.2	520.7	532.9	504.5	503.7	504.5
32.5°	1305.9	1263.8	1155.7	977.3	793.7	578.2	513.1	475.4	507.2	515.6	515.6
35°	1428.6	1373.7	1280.2	1226.0	761.0	561.1	449.6	459.0	460.7	459.0	459.9
37.5°	1589.9	1517.9	1432.8	1249.3	784.2	488.1	429.0	425.5	459.0	465.1	467.6
40°	1777.7	1709.1	1630.2	1268.1	703.6	448.8	411.0	425.5	435.0	436.8	438.5
42.5°	2016.3	1921.0	1815.6	1264.8	598.9	430.6	407.6	407.6	418.7	415.2	415.2
45°	2288.3	2166.5	1989.7	1232.1	496.0	414.4	398.9	393.0	398.0	391.2	391.2
47.5°	2593.8	2459.9	2120.1	1181.5	436.8	399.8	391.2	372.3	384.4	382.7	382.7
50°	2917.2	2777.4	2242.0	1067.4	399.8	387.0	371.4	367.2	382.7	379.3	378.4
52.5°	3227.8	3106.9	2334.7	912.0	368.0	375.0	364.6	362.9	376.7	373.2	372.3
55°	3525.6	3455.2	2450.4	780.7	339.7	353.6	362.0	362.0	370.7	367.2	367.2
57.5°	3815.6	3829.4	2587.7	690.6	318.3	336.3	358.7	357.7	362.9	360.4	361.2
60°	4110.7	4199.9	2725.1	605.7	301.1	316.7	351.7	350.1	352.7	351.7	352.7
62.5°	4390.5	4537.2	2891.6	496.9	282.2	301.1	340.6	342.3	341.4	344.1	344.1
64°	4533.7	4683.9	2973.8	433.3	271.1	291.7	332.1	334.6	333.8	338.9	338.0
65°	4589.5	4737.9	3003.0	395.6	264.3	285.8	326.1	329.5	328.6	334.6	332.1
67.5°	4574.1	4674.4	2967.9	326.1	246.2	269.4	309.7	315.8	313.1	321.8	315.8
70°	4411.8	4328.7	2688.9	284.0	231.7	251.3	289.2	296.9	292.6	301.1	291.0
72.5°	4108.2	3735.8	2092.7	246.2	215.4	233.4	266.0	273.8	270.3	273.8	262.6
75°	3435.5	2881.3	1224.4	213.6	193.9	208.4	238.5	246.2	242.8	235.0	230.9
77.5°	2388.8	1821.6	483.8	187.0	174.2	182.7	203.3	210.3	205.1	190.5	187.8
80°	1139.4	812.5	232.5	162.1	151.1	156.1	166.5	169.1	168.2	153.6	146.8
82.5°	349.3	266.0	160.4	130.4	122.7	121.0	131.3	127.9	126.1	115.8	91.0
85°	79.0	78.2	90.1	80.7	77.3	69.4	79.0	76.4	74.6	55.8	48.1
87.5°	2.5	5.1	4.3	11.1	11.9	9.4	15.5	16.3	11.9	5.1	0.9
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)