

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: P414991

Luminaire Tested: **LXF.LXT-PA1-40-727-U-T2R**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P414991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1909-505-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-40-727-U-T2R
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4173 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

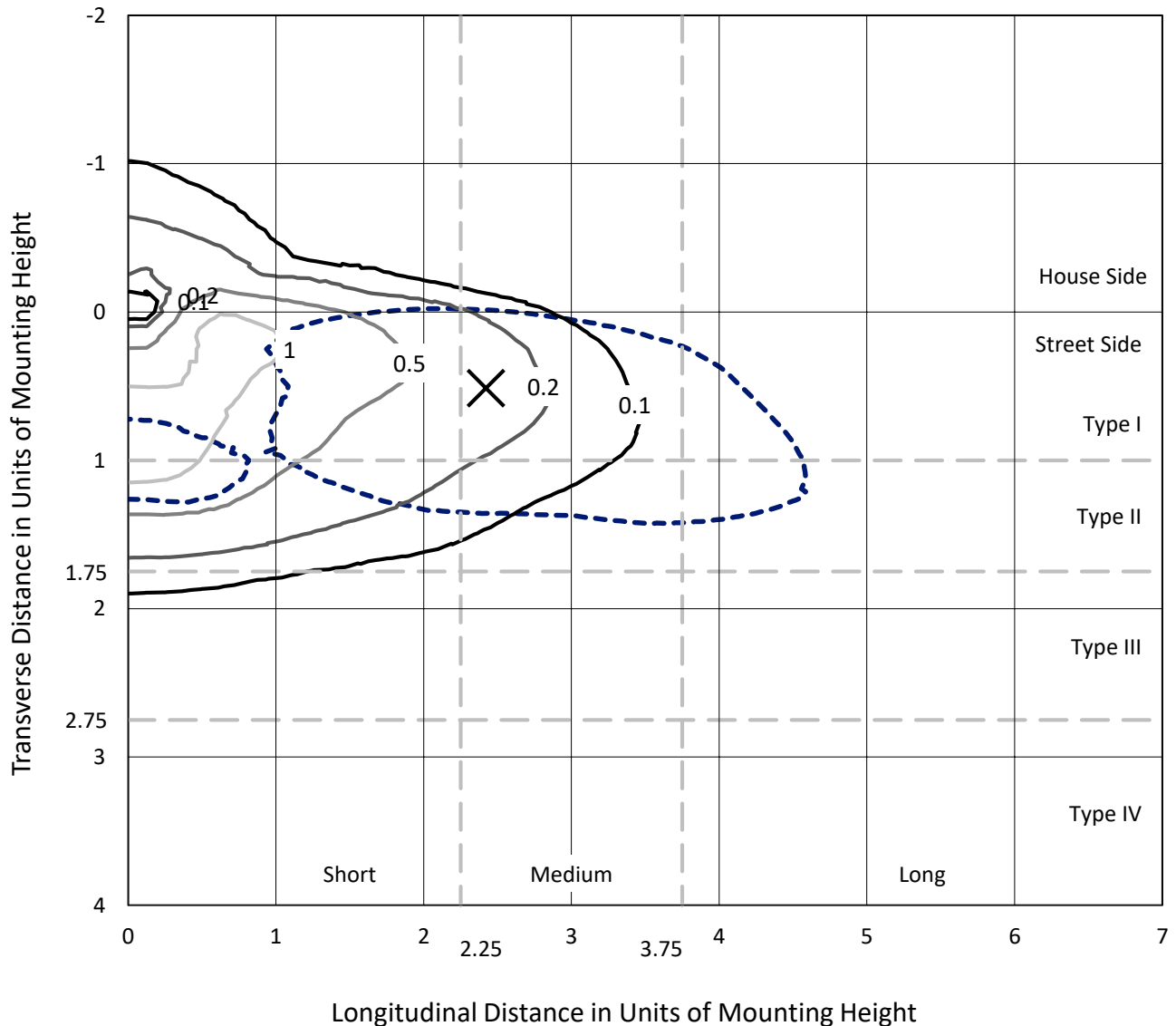
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

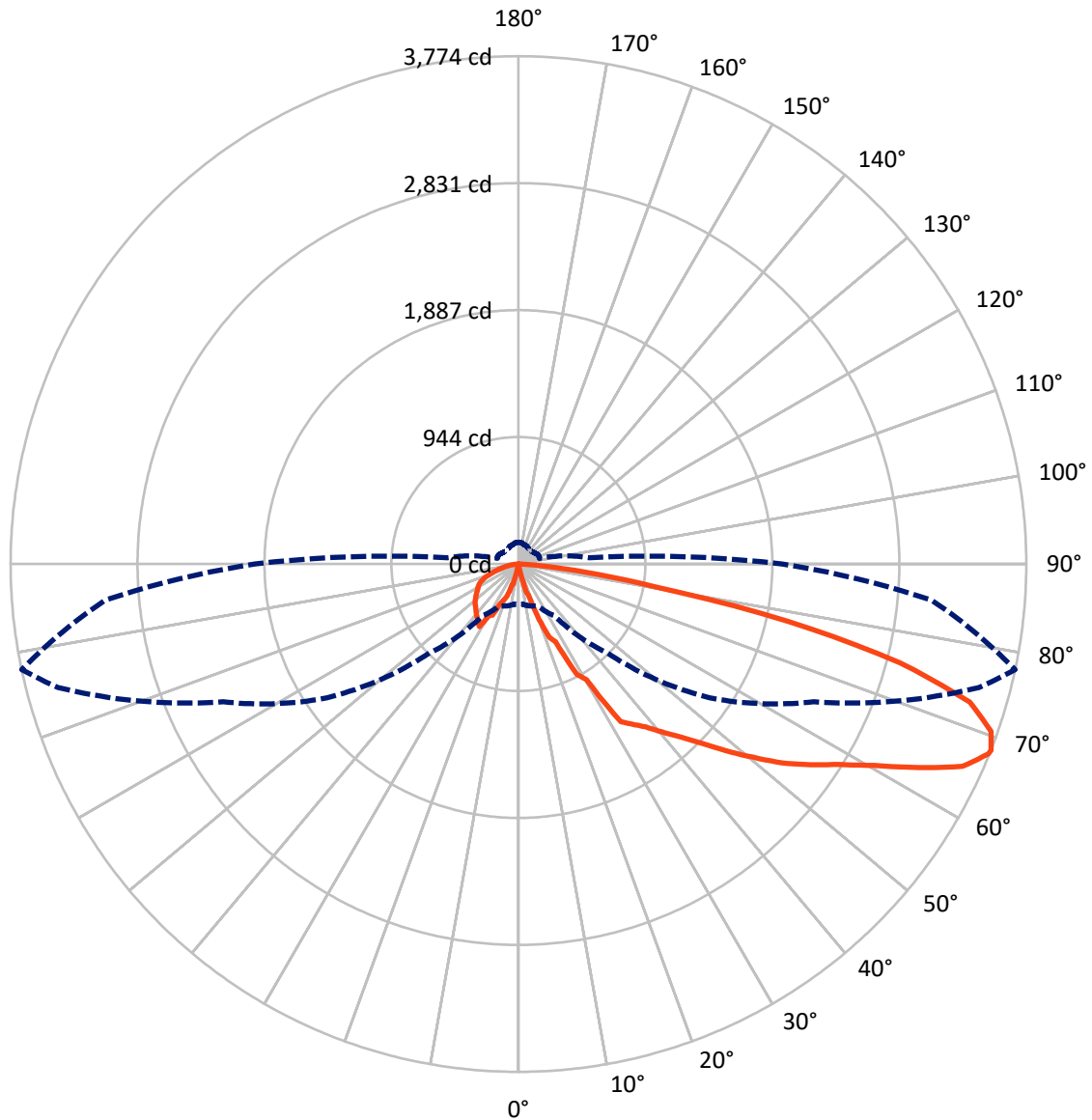
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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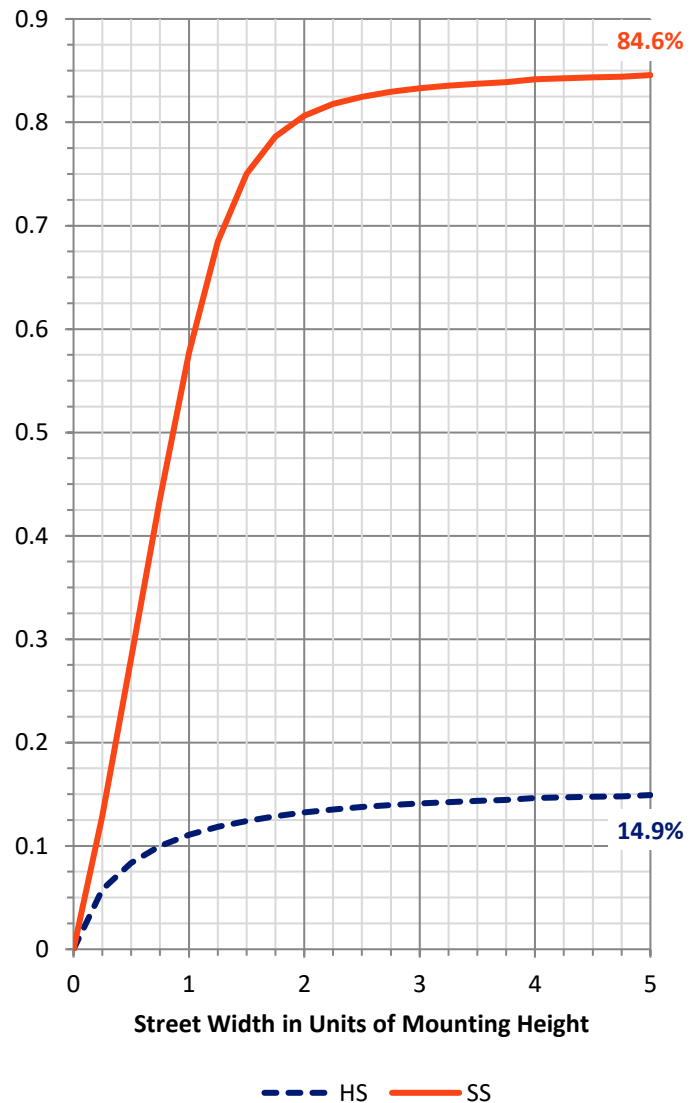
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.6	0.0	633.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3539.4	0.0	3539.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	4173.0	0.0	4173.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.2	0.1
10°-20°	60.5	1.4
20°-30°	230.3	5.5
30°-40°	537.6	12.9
40°-50°	839.4	20.1
50°-60°	963.5	23.1
60°-70°	895.3	21.5
70°-80°	553.2	13.3
80°-90°	89.1	2.1
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°	4173.0	100.0
0°-180°	4173.0	100.0



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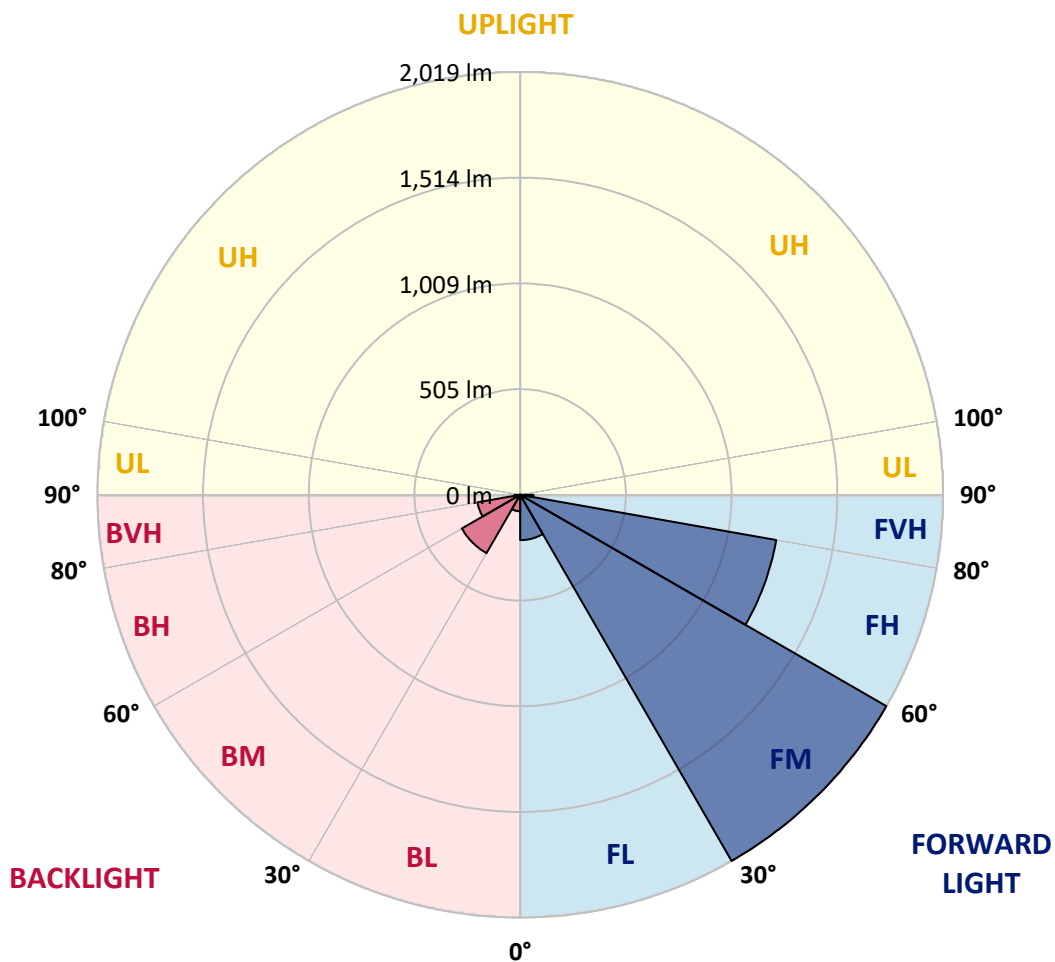
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.4	5.2			
FM (30°-60°)	2018.6	48.4			
FH (60°-80°)	1241.4	29.7			G1/1800
FVH (80°-90°)	63.0	1.5			G1/100
BL (0°-30°)	78.5	1.9	B0/110		
BM (30°-60°)	321.9	7.7	B1/1000		
BH (60°-80°)	207.1	5.0	B1/500		G1/500
BVH (80°-90°)	26.1	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
2.5°	3.2	3.2	3.7	4.1	5.0	4.6	3.2	2.3	1.8	1.8	1.8
5°	147.9	136.0	76.0	39.4	13.7	8.2	4.1	3.2	2.3	2.3	1.8
7.5°	167.1	166.2	164.8	163.4	161.2	152.5	16.0	4.6	2.7	2.7	1.8
10°	180.4	179.0	178.1	177.2	174.0	169.4	161.6	14.2	5.0	4.6	4.1
12.5°	350.2	349.3	347.9	222.5	188.6	183.6	176.7	126.4	14.7	22.0	66.4
15°	349.3	347.9	352.1	359.4	365.3	201.0	202.8	354.8	219.8	211.1	224.8
17.5°	364.4	362.6	358.0	363.1	374.0	420.3	397.4	384.1	258.7	246.8	239.9
20°	534.3	534.3	539.8	535.2	388.2	537.0	508.6	412.5	467.4	439.5	408.8
22.5°	565.4	563.1	564.0	573.2	673.9	556.7	561.3	636.4	649.7	593.3	508.6
25°	803.9	803.5	771.9	605.7	710.5	671.2	775.6	680.8	704.6	638.2	624.0
27.5°	904.7	905.6	879.9	857.1	750.8	870.3	823.2	896.4	1000.8	929.8	799.4
30°	1217.4	1205.5	1004.0	981.6	918.9	917.5	996.7	1058.5	1029.2	995.8	892.8
32.5°	1446.7	1434.8	1390.4	1235.2	1092.4	1021.9	1145.0	1107.5	1342.8	1397.7	1210.5
35°	1801.5	1797.4	1561.6	1401.4	1282.8	1235.7	1203.2	1349.2	1453.6	1461.8	1289.2
37.5°	2074.0	2060.7	1922.4	1639.9	1444.0	1335.0	1412.4	1414.7	1574.9	1536.0	1412.4
40°	2198.5	2190.2	2084.0	1818.9	1592.3	1469.2	1500.3	1513.6	1707.7	1640.4	1502.1
42.5°	2293.3	2283.2	2215.9	1926.5	1722.8	1605.1	1590.9	1602.9	1836.3	1754.4	1598.3
45°	2342.2	2336.3	2304.7	2003.0	1813.9	1691.7	1688.0	1681.6	1923.8	1894.9	1702.7
47.5°	2314.8	2308.4	2322.6	2106.9	1870.7	1762.6	1778.2	1766.8	2024.1	2071.2	1816.2
50°	2162.3	2168.3	2225.0	2111.0	1906.8	1820.3	1873.4	1845.0	2160.5	2257.1	1954.0
52.5°	1721.0	1745.2	1985.6	2019.5	1910.5	1847.3	1959.0	1964.5	2329.9	2455.8	2135.3
55°	1284.2	1318.5	1531.4	1796.1	1837.3	1848.2	2014.0	2074.0	2498.8	2632.5	2287.8
57.5°	1010.9	1031.9	1167.5	1433.0	1660.5	1815.7	2070.3	2162.8	2655.9	2809.2	2437.5
60°	808.1	795.2	883.6	1085.0	1384.0	1724.6	2095.0	2278.6	2851.3	3037.2	2613.7
62.5°	584.2	585.1	652.4	767.3	1095.6	1544.7	2075.8	2390.8	3100.4	3332.1	2848.6
65°	414.3	418.5	464.2	526.0	792.0	1297.5	1980.6	2467.2	3381.5	3626.9	3039.5
67.5°	315.4	318.2	339.7	368.6	511.8	987.1	1785.1	2451.7	3535.8	3766.5	3094.9
68°	302.6	298.0	322.3	343.4	471.1	935.8	1731.5	2420.5	3543.1	3774.3	3081.6
70°	255.0	255.0	266.0	271.0	333.8	691.8	1469.2	2232.4	3517.0	3726.2	2980.9
72.5°	212.9	211.5	217.9	213.8	235.8	452.8	1067.2	1925.2	3330.7	3507.0	2681.0
75°	177.2	177.2	178.1	174.9	180.8	303.5	693.6	1508.1	2942.5	2928.3	2182.0
77.5°	151.1	147.4	146.5	141.9	147.0	220.7	425.3	1073.1	2124.3	2047.9	1385.4
80°	120.0	119.5	120.4	117.7	121.8	160.7	259.1	627.2	1156.9	1018.2	646.0
82.5°	74.2	81.5	89.7	89.7	102.6	113.5	157.0	335.6	560.8	493.1	274.2
85°	24.3	29.8	52.7	54.5	65.9	53.1	90.2	108.0	187.3	167.1	52.7
87.5°	0.9	1.4	4.1	6.4	6.0	3.7	6.4	5.0	10.5	7.8	8.2
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°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
2.5°	1.8	1.8	1.8	2.3	2.3	1.4	0.9	1.8	1.8	1.8	1.8
5°	1.8	1.8	2.3	2.3	2.3	1.8	2.3	3.2	3.7	3.7	3.7
7.5°	1.8	1.8	1.8	2.7	2.7	3.2	4.6	27.5	63.2	69.1	68.2
10°	3.7	3.2	3.7	4.1	5.0	58.6	76.9	81.0	82.9	84.2	83.8
12.5°	87.9	78.7	14.7	8.2	55.4	82.4	83.8	87.0	90.2	91.6	91.6
15°	206.0	184.5	141.0	106.2	94.8	87.9	89.3	117.2	159.3	163.4	163.9
17.5°	218.8	191.8	147.4	162.5	167.6	130.5	143.3	161.2	163.0	163.4	163.4
20°	412.5	345.7	209.7	171.2	170.8	218.4	152.9	157.5	160.2	182.2	185.0
22.5°	446.4	370.4	251.8	243.1	184.0	218.4	200.1	194.6	212.9	211.1	212.4
25°	561.3	444.5	265.1	244.0	257.8	211.5	234.9	193.7	196.9	195.9	195.9
27.5°	713.8	560.8	370.4	273.3	250.4	244.5	217.5	186.3	223.4	224.3	224.3
30°	755.9	576.9	370.4	295.3	260.5	240.4	201.0	220.2	207.9	204.2	202.4
32.5°	1047.5	782.4	448.2	284.3	256.8	220.7	220.2	204.6	204.2	212.4	212.4
35°	1100.6	794.3	409.3	325.1	242.2	227.5	209.2	206.9	197.8	194.6	194.1
37.5°	1153.3	801.7	379.5	298.5	248.6	217.0	206.0	190.0	200.1	200.1	199.2
40°	1209.6	809.4	352.5	274.2	228.5	217.0	190.9	189.5	175.8	176.7	175.8
42.5°	1270.0	812.6	323.7	254.1	209.7	203.7	184.5	170.3	169.9	173.1	172.1
45°	1339.1	816.8	297.1	228.5	190.9	179.5	164.8	165.7	174.4	181.8	181.8
47.5°	1412.9	820.4	275.2	205.6	177.6	163.0	152.0	155.7	171.2	178.6	180.8
50°	1512.7	825.0	250.0	186.8	168.5	150.6	148.8	152.0	168.9	174.4	172.1
52.5°	1618.9	816.8	225.3	174.9	158.9	136.9	140.1	148.3	166.6	169.4	167.6
55°	1705.9	796.2	206.0	167.1	152.0	130.9	135.5	145.6	163.0	164.4	164.8
57.5°	1807.0	769.1	190.9	161.2	147.9	128.2	133.7	145.1	155.7	162.1	162.1
60°	1906.4	737.6	181.8	158.0	144.7	128.2	133.7	144.7	154.3	161.2	160.7
62.5°	2022.7	701.8	176.3	159.8	140.6	129.6	134.6	146.0	153.8	161.6	160.7
65°	2063.4	633.6	172.1	162.5	140.1	131.4	135.1	147.9	153.4	162.5	161.6
67.5°	1982.8	543.4	165.3	162.5	144.2	133.7	134.6	147.0	152.0	163.0	158.9
68°	1955.8	530.2	163.0	162.1	144.7	134.1	134.6	146.5	151.1	162.5	158.0
70°	1805.7	445.9	151.5	157.5	146.5	136.0	132.3	143.3	146.5	161.6	156.1
72.5°	1562.6	347.5	132.3	146.5	144.7	138.7	128.2	136.9	138.7	151.1	141.9
75°	1249.4	264.2	109.4	127.3	136.0	138.7	122.2	128.2	127.7	133.7	125.4
77.5°	785.6	188.6	88.4	108.0	123.6	135.1	116.7	116.7	111.3	112.2	108.5
80°	380.9	129.1	71.4	89.3	103.5	127.7	107.1	98.4	91.6	89.7	85.2
82.5°	187.3	83.3	49.4	67.3	82.0	105.8	96.1	81.0	69.1	68.2	60.9
85°	43.5	34.3	27.0	35.7	51.7	69.1	69.1	50.8	43.0	55.9	41.2
87.5°	4.1	5.0	5.5	5.0	6.4	6.0	14.7	14.7	13.3	8.7	6.0
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)