

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: P484630

Luminaire Tested: **IFLD-S-SA3A-722-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484630
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

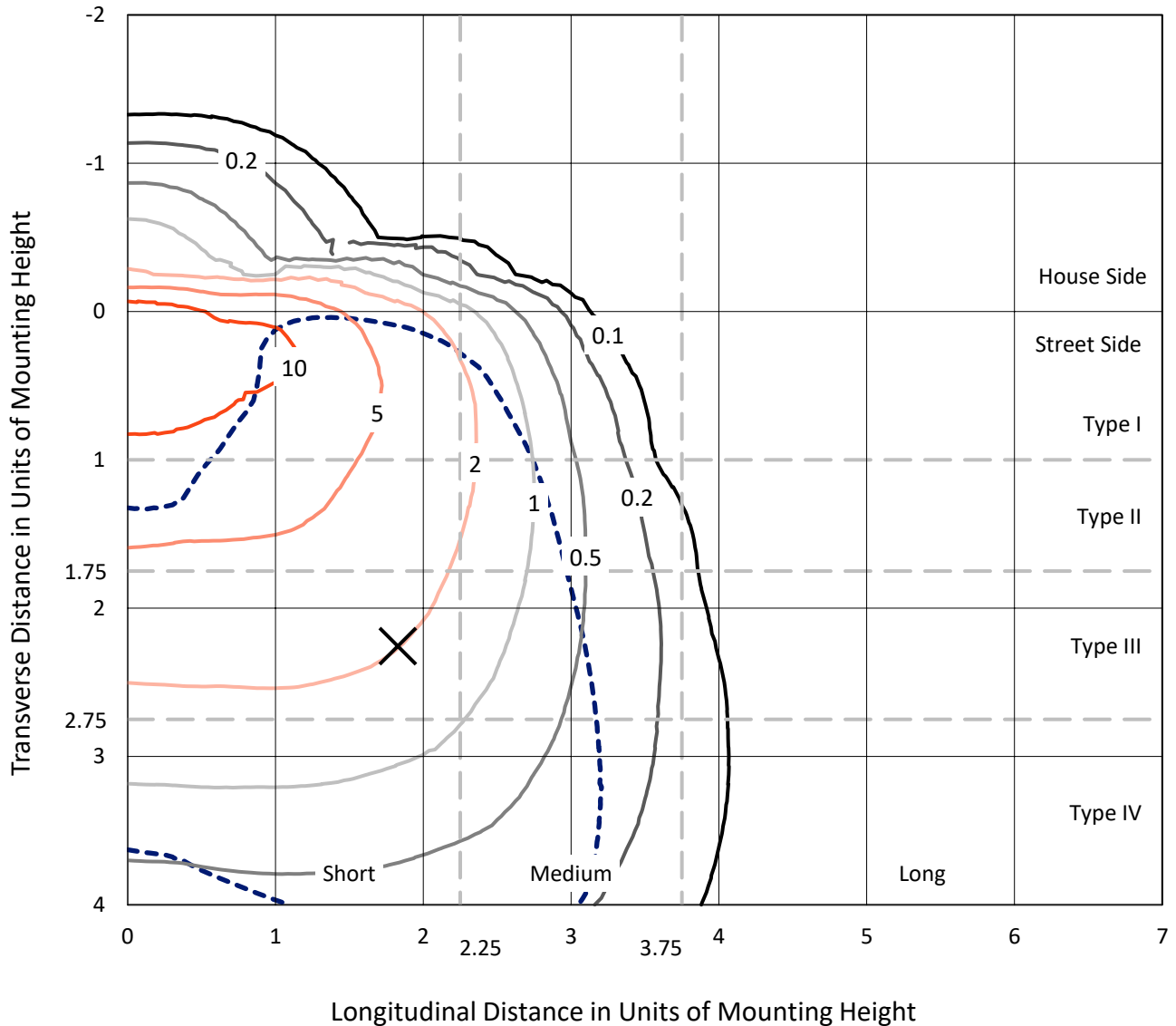
Lumens per Lamp: N/A
Luminaire Lumens: 8372.3 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

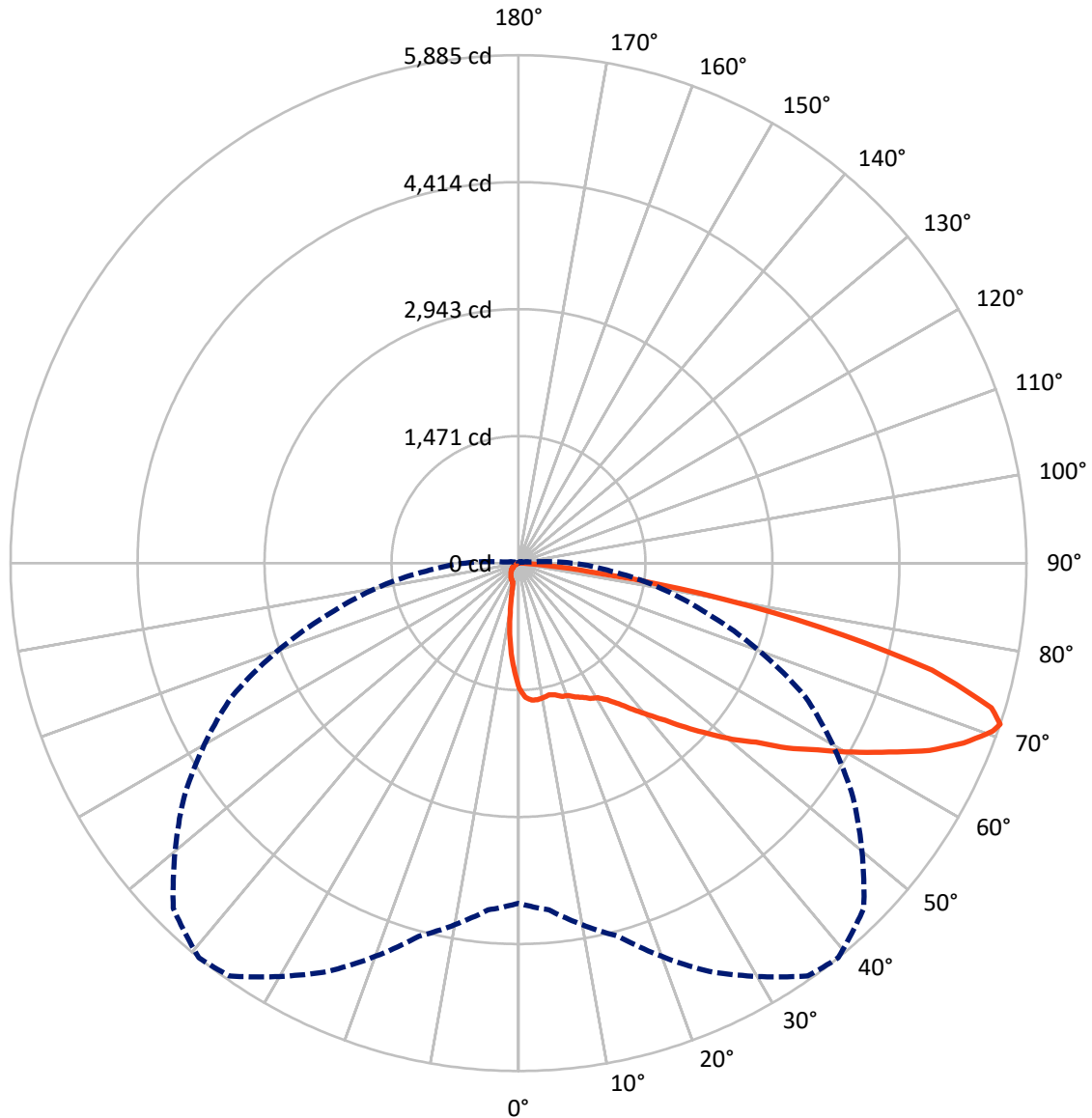
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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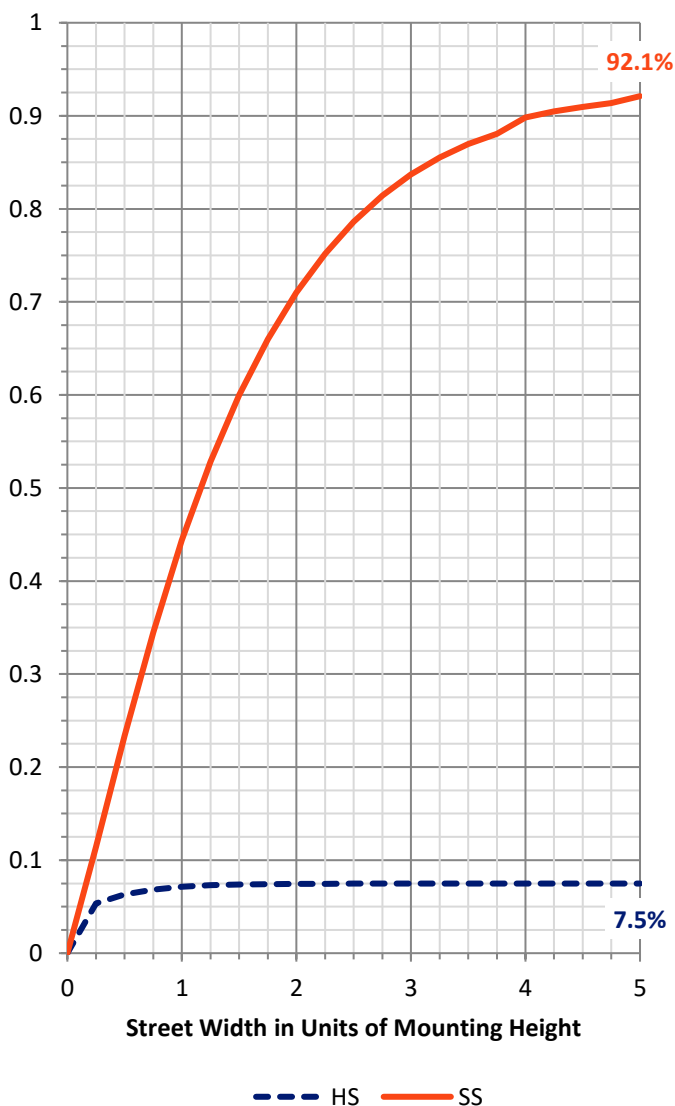
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.3	0.0	630.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7742.0	0.0	7742.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	8372.3	0.0	8372.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.5
10°-20°	299.9	3.6
20°-30°	481.4	5.8
30°-40°	736.9	8.8
40°-50°	1182.9	14.1
50°-60°	1737.5	20.8
60°-70°	2188.3	26.1
70°-80°	1460.4	17.4
80°-90°	163.2	1.9
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°	8372.3	100.0
0°-180°	8372.3	100.0

Coefficient of Utilization



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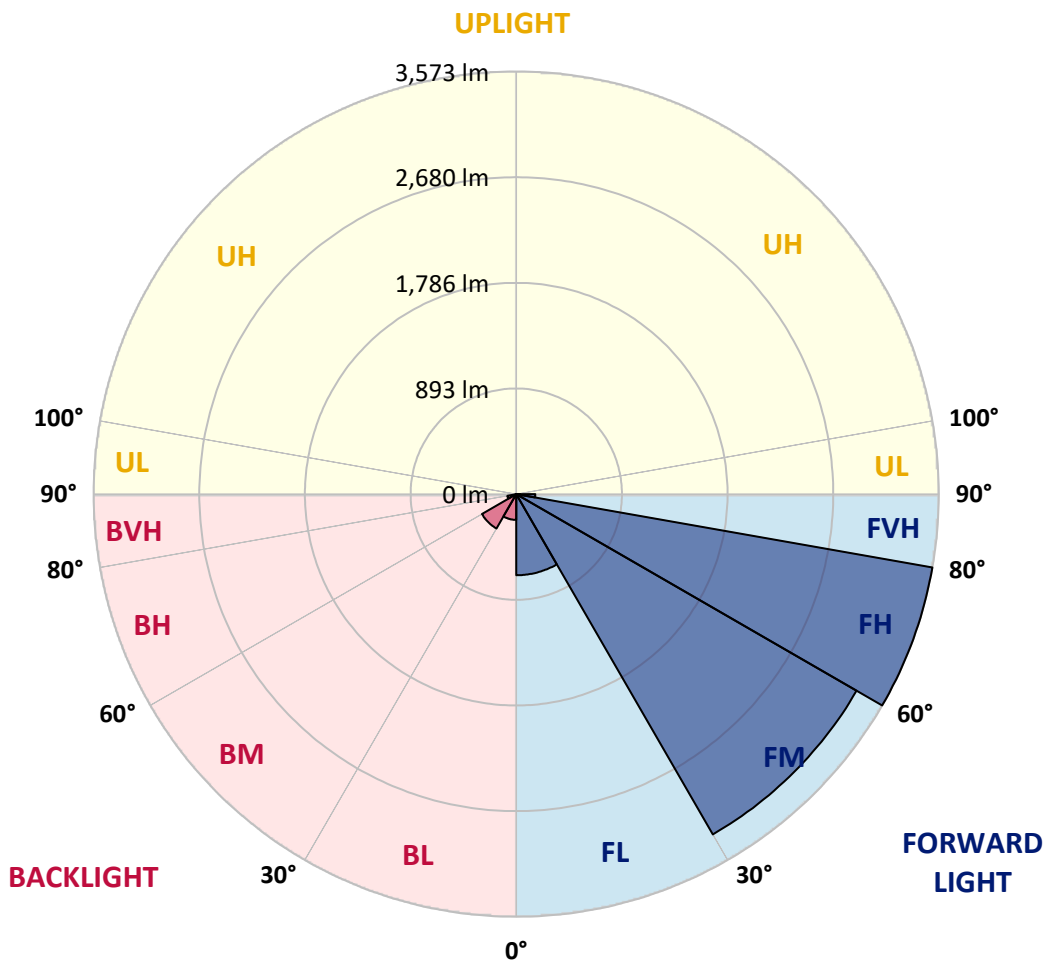
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.5	8.2			
FM (30°-60°)	3322.3	39.7			
FH (60°-80°)	3572.8	42.7			G2/5000
FVH (80°-90°)	161.4	1.9			G2/225
BL (0°-30°)	217.6	2.6	B1/500		
BM (30°-60°)	335.0	4.0	B1/1000		
BH (60°-80°)	75.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1570.4	1585.7	1570.4	1563.8	1557.2	1558.3	1540.7	1544.0	1523.1	1495.7	1473.7
5°	1619.8	1640.6	1624.2	1616.5	1615.4	1594.5	1585.7	1564.9	1539.6	1496.8	1470.4
7.5°	1615.4	1611.0	1618.7	1612.1	1597.8	1597.8	1587.9	1558.3	1533.0	1484.7	1439.7
10°	1582.4	1595.6	1589.0	1581.3	1584.6	1585.7	1567.1	1546.2	1538.5	1490.2	1416.6
12.5°	1579.1	1557.2	1581.3	1582.4	1568.2	1567.1	1564.9	1559.4	1535.2	1491.3	1422.1
15°	1568.2	1559.4	1583.5	1584.6	1587.9	1584.6	1587.9	1583.5	1559.4	1534.1	1446.3
17.5°	1577.0	1567.1	1601.1	1617.6	1609.9	1625.3	1619.8	1600.0	1579.1	1549.5	1469.3
20°	1579.1	1593.4	1630.8	1637.4	1661.5	1636.3	1635.2	1614.3	1601.1	1569.3	1483.6
22.5°	1619.8	1626.4	1672.5	1686.8	1687.9	1684.6	1657.1	1633.0	1627.5	1587.9	1486.9
25°	1681.3	1704.3	1725.2	1734.0	1737.3	1721.9	1693.4	1662.6	1649.4	1624.2	1520.9
27.5°	1790.0	1775.7	1794.4	1807.6	1770.2	1775.7	1739.5	1713.1	1694.5	1672.5	1560.5
30°	1886.6	1873.5	1874.6	1872.4	1840.5	1810.9	1801.0	1754.9	1731.8	1740.6	1622.0
32.5°	1973.4	1944.8	1969.0	1958.0	1898.7	1889.9	1882.2	1824.0	1828.4	1869.1	1714.2
35°	2053.6	2043.7	2063.4	2043.7	2004.1	2001.9	1994.3	1943.7	1967.9	2026.1	1872.4
37.5°	2127.1	2130.4	2154.6	2144.7	2148.0	2150.2	2145.8	2092.0	2161.2	2291.9	2056.8
40°	2195.2	2190.8	2250.1	2280.9	2287.5	2311.6	2311.6	2298.4	2405.0	2552.1	2312.7
42.5°	2267.7	2278.7	2355.5	2407.2	2469.8	2490.6	2519.2	2525.8	2690.5	2858.5	2574.1
45°	2386.3	2367.6	2465.4	2587.3	2642.2	2715.7	2759.7	2797.0	2995.8	3226.4	2835.4
47.5°	2536.7	2499.4	2585.1	2761.9	2889.3	2949.6	3028.7	3078.1	3272.5	3510.8	3082.5
50°	2703.7	2665.2	2707.0	2950.7	3099.0	3208.8	3309.8	3372.4	3607.4	3829.3	3262.6
52.5°	2892.5	2857.4	2864.0	3147.3	3365.9	3446.0	3578.9	3672.2	3906.1	4021.5	3326.3
55°	3093.5	3084.7	3063.9	3339.5	3599.8	3779.9	3860.0	3972.0	4212.5	4125.8	3395.5
57.5°	3295.6	3268.1	3297.8	3594.3	3975.3	4082.9	4193.9	4260.8	4382.7	4216.9	3369.1
60°	3485.6	3487.7	3529.5	3871.0	4294.9	4447.5	4547.5	4506.8	4557.4	4256.5	3308.7
62.5°	3645.9	3641.5	3746.9	4181.8	4717.7	4820.9	4895.6	4714.4	4638.6	4294.9	3203.3
65°	3789.7	3839.2	4005.0	4551.9	5115.2	5233.8	5188.8	4911.0	4717.7	4181.8	2906.8
67.5°	3898.5	3972.0	4259.8	4900.0	5479.8	5563.3	5500.7	5060.3	4624.3	3738.1	2367.6
70°	3962.2	4036.8	4442.0	5189.9	5770.8	5831.2	5684.1	4945.0	4079.7	2707.0	1477.0
71°	3942.4	4033.5	4477.2	5220.6	5840.0	5885.0	5656.6	4732.0	3668.9	2266.6	1077.3
72.5°	3763.4	3849.0	4331.1	5198.7	5756.5	5729.1	5442.5	4220.2	2888.2	1445.2	556.8
75°	2765.2	2857.4	3717.3	4497.0	5138.3	4949.4	4404.7	2961.7	1506.7	442.6	162.5
77.5°	1377.1	1392.5	2307.2	3264.8	3768.9	3581.1	2951.8	1651.6	563.4	130.7	81.3
80°	634.7	639.1	865.3	1691.2	2278.7	2144.7	1653.8	814.8	254.8	69.2	63.7
82.5°	432.7	439.3	521.6	700.6	989.4	834.6	669.9	521.6	146.1	41.7	62.6
85°	79.1	72.5	292.1	371.2	382.2	259.2	231.7	451.3	54.9	24.2	54.9
87.5°	0.0	1.1	40.6	151.5	136.2	60.4	79.1	109.8	5.5	7.7	9.9
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°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1455.1	1443.0	1402.3	1357.3	1316.7	1284.8	1244.2	1225.5	1195.9	1179.4	1178.3
5°	1434.2	1401.2	1331.0	1255.2	1170.6	1100.4	1022.4	978.5	927.9	912.6	909.3
7.5°	1399.1	1351.8	1248.6	1142.1	1012.5	888.4	792.9	690.7	628.1	601.8	591.9
10°	1377.1	1320.0	1179.4	1020.2	839.0	664.4	530.4	421.7	364.6	337.1	330.5
12.5°	1377.1	1315.6	1123.4	903.8	663.3	454.6	328.3	265.8	247.1	240.5	240.5
15°	1373.8	1306.8	1069.6	784.1	490.9	305.3	244.9	231.7	229.5	228.4	227.3
17.5°	1390.3	1291.4	1014.7	655.6	347.0	240.5	225.1	222.9	220.7	220.7	218.5
20°	1402.3	1282.6	948.8	519.4	259.2	222.9	216.3	213.0	211.9	210.8	213.0
22.5°	1392.5	1269.5	867.5	388.7	226.2	211.9	207.6	204.3	202.1	202.1	203.2
25°	1411.1	1257.4	786.3	293.2	211.9	202.1	197.7	195.5	194.4	193.3	191.1
27.5°	1436.4	1262.9	689.6	236.1	199.9	192.2	187.8	185.6	184.5	182.3	184.5
30°	1467.1	1261.8	583.1	206.5	188.9	181.2	176.8	175.7	173.5	172.4	173.5
32.5°	1519.8	1290.3	473.3	191.1	176.8	170.2	165.8	164.7	163.6	162.5	161.4
35°	1633.0	1325.5	370.1	179.0	165.8	158.1	154.8	152.6	151.5	150.4	149.3
37.5°	1772.4	1403.4	282.2	168.0	154.8	147.2	143.9	142.8	138.4	137.3	136.2
40°	1947.0	1486.9	217.4	155.9	145.0	137.3	134.0	130.7	125.2	123.0	120.8
42.5°	2164.5	1568.2	179.0	145.0	134.0	128.5	123.0	117.5	113.1	108.7	106.5
45°	2381.9	1662.6	157.0	135.1	125.2	118.6	114.2	106.5	98.8	92.2	91.1
47.5°	2563.1	1696.7	143.9	124.1	116.4	110.9	104.3	94.4	83.5	76.9	75.8
50°	2698.2	1676.9	130.7	113.1	106.5	101.0	92.2	80.2	69.2	62.6	60.4
52.5°	2724.5	1590.1	118.6	104.3	96.6	90.0	80.2	67.0	54.9	48.3	47.2
55°	2705.9	1446.3	108.7	96.6	87.9	78.0	67.0	53.8	42.8	36.2	35.1
57.5°	2667.4	1276.1	97.7	86.8	76.9	67.0	54.9	43.9	31.8	25.3	25.3
60°	2536.7	1044.3	86.8	75.8	65.9	57.1	45.0	31.8	22.0	16.5	15.4
62.5°	2354.4	802.8	75.8	64.8	57.1	47.2	35.1	23.1	13.2	8.8	8.8
65°	2021.7	562.3	63.7	53.8	47.2	38.4	26.4	14.3	7.7	3.3	3.3
67.5°	1536.3	348.1	52.7	45.0	40.6	30.7	18.7	8.8	3.3	1.1	0.0
70°	881.8	181.2	41.7	36.2	31.8	23.1	13.2	4.4	2.2	0.0	0.0
71°	616.1	134.0	37.3	31.8	28.6	20.9	11.0	3.3	1.1	0.0	0.0
72.5°	308.6	89.0	31.8	26.4	23.1	16.5	8.8	3.3	1.1	0.0	0.0
75°	109.8	57.1	22.0	17.6	16.5	12.1	5.5	2.2	1.1	0.0	0.0
77.5°	75.8	46.1	15.4	11.0	11.0	7.7	3.3	1.1	1.1	0.0	0.0
80°	69.2	25.3	9.9	6.6	5.5	4.4	2.2	1.1	0.0	0.0	0.0
82.5°	69.2	18.7	5.5	4.4	3.3	2.2	1.1	0.0	0.0	0.0	0.0
85°	48.3	9.9	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.3	2.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
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)