

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: P481686

Luminaire Tested: **IFLD-M-SA4A-740-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481686  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

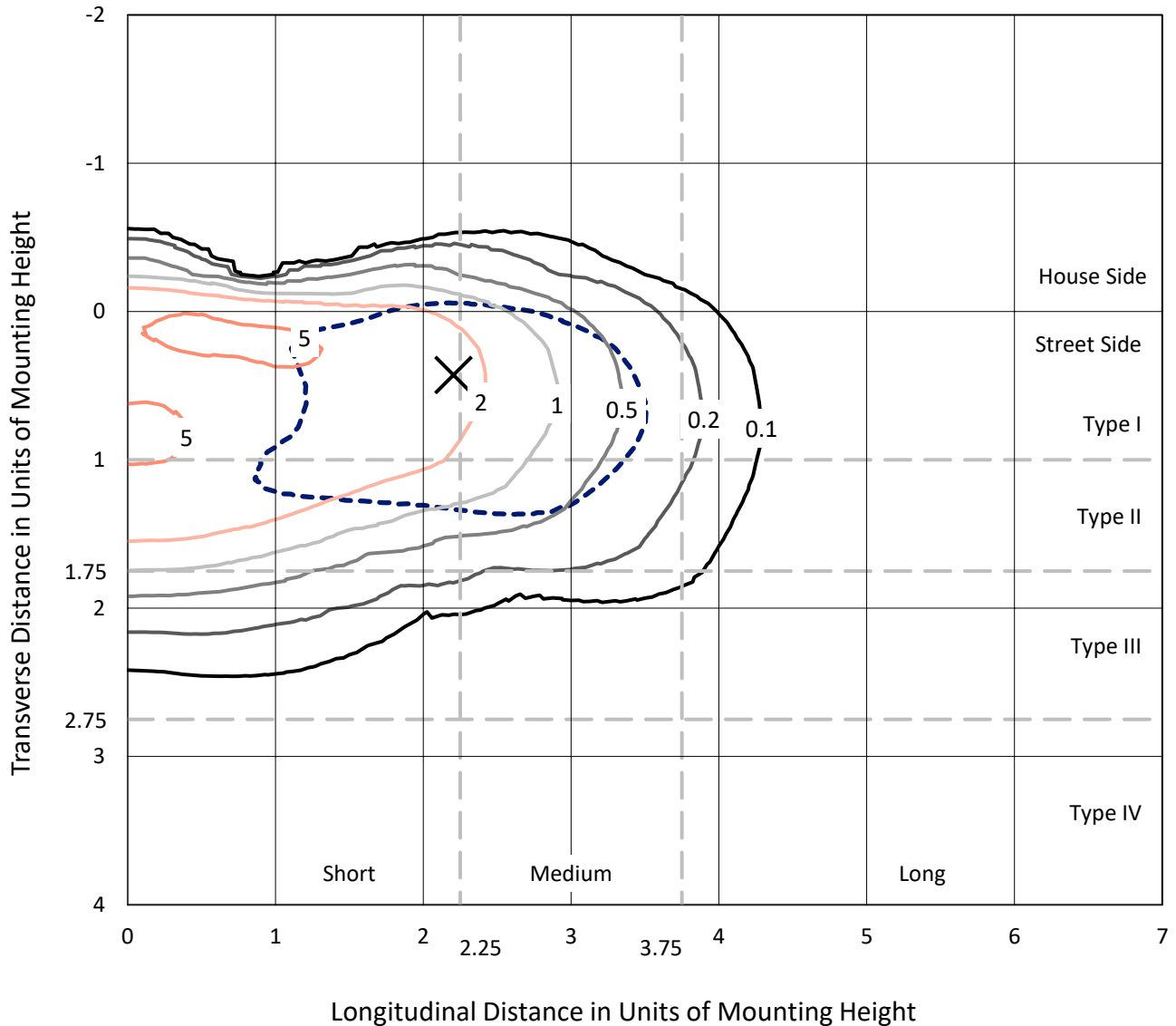
Lumens per Lamp: N/A  
Luminaire Lumens: 13299.1 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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

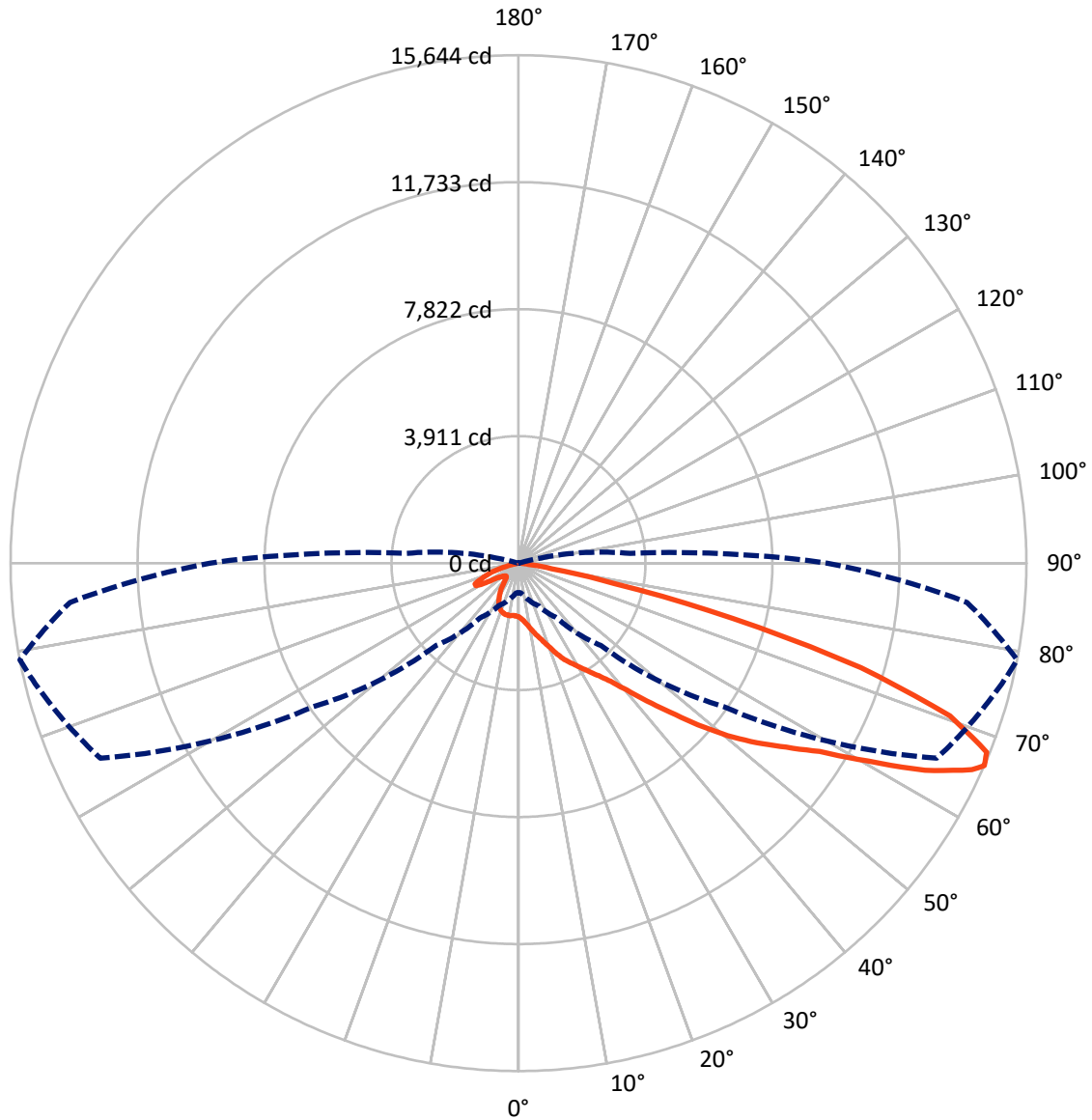
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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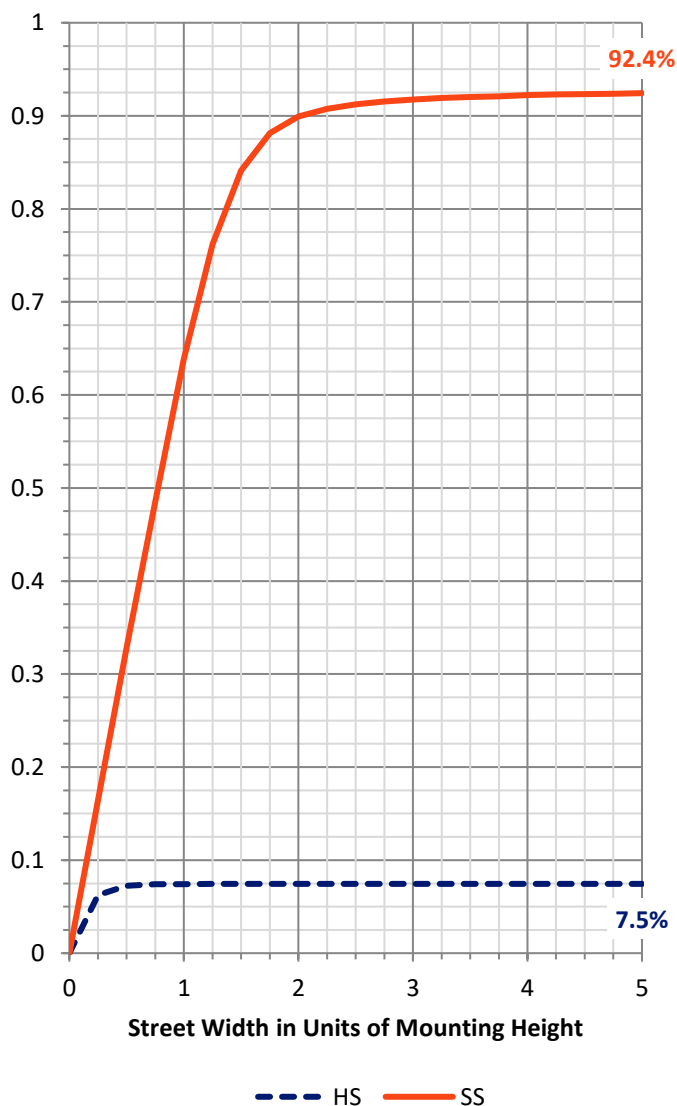
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	998.6	0.0	998.6
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	12300.5	0.0	12300.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	13299.1	0.0	13299.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.5	1.2
10°-20°	430.6	3.2
20°-30°	715.4	5.4
30°-40°	1228.8	9.2
40°-50°	2226.1	16.7
50°-60°	3518.9	26.5
60°-70°	3580.7	26.9
70°-80°	1365.5	10.3
80°-90°	76.6	0.6
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°	13299.1	100.0
0°-180°	13299.1	100.0

**Coefficient of Utilization**



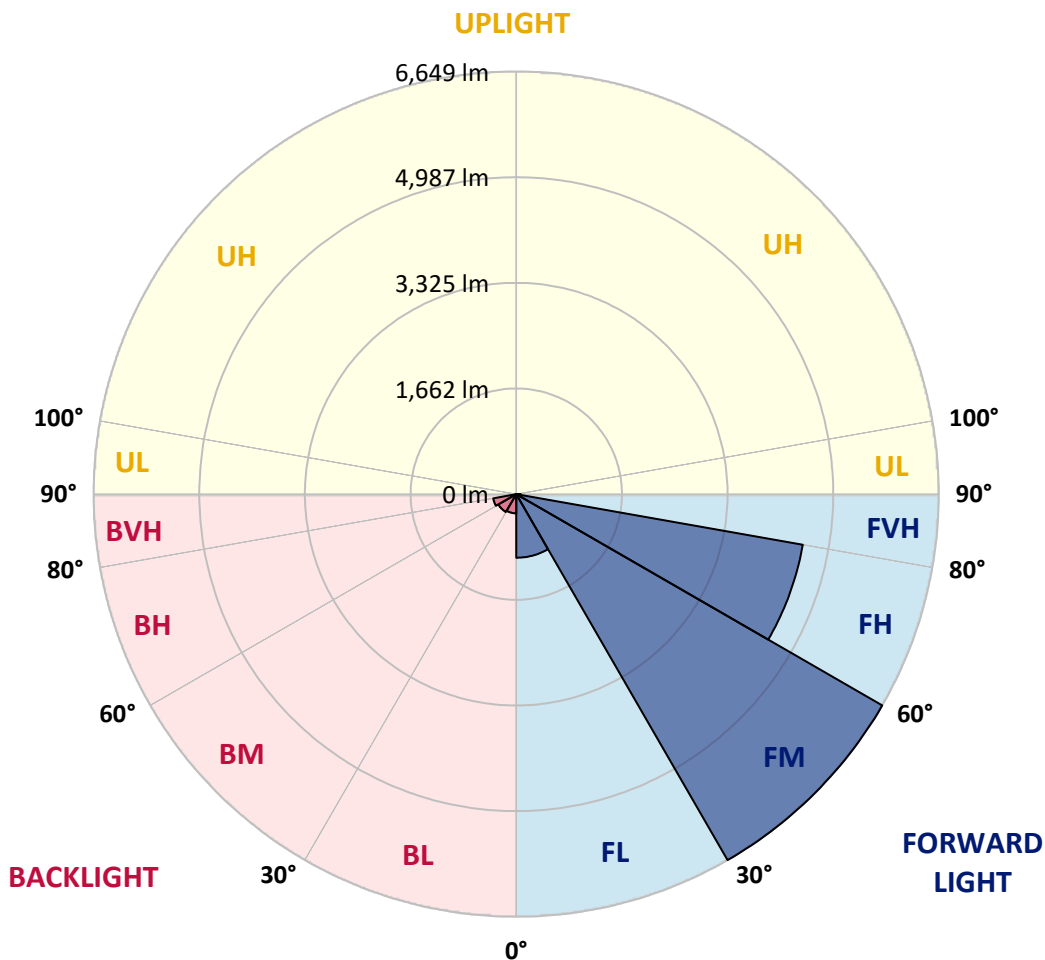
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.5	7.5			
FM (30°-60°)	6649.2	50.0			
FH (60°-80°)	4578.1	34.4			G2/5000
FVH (80°-90°)	72.6	0.5			G1/100
BL (0°-30°)	302.0	2.3	B1/500		
BM (30°-60°)	324.6	2.4	B1/1000		
BH (60°-80°)	368.1	2.8	B1/500		G1/500
BVH (80°-90°)	3.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1873.9	1871.9	1863.7	1849.3	1830.9	1824.7	1798.1	1761.2	1740.7	1718.1	1707.9
5°	2003.1	1992.9	2017.5	2007.2	2011.3	1962.1	1929.3	1902.6	1824.7	1794.0	1744.8
7.5°	2031.8	2042.1	2040.0	2056.4	2072.8	2091.3	2068.7	2029.8	1951.9	1906.7	1853.4
10°	2031.8	2027.7	2044.1	2066.7	2113.8	2154.8	2216.3	2165.1	2105.6	2052.3	1956.0
12.5°	1994.9	1988.8	2005.2	2052.3	2136.4	2220.4	2288.1	2337.3	2253.2	2210.2	2085.1
15°	1882.1	1876.0	1943.6	2027.7	2138.4	2275.8	2417.3	2497.2	2439.8	2372.2	2232.7
17.5°	1742.7	1750.9	1822.7	1962.1	2138.4	2302.4	2482.9	2657.1	2648.9	2562.8	2417.3
20°	1695.6	1701.7	1773.5	1873.9	2074.9	2320.9	2585.4	2831.4	2880.6	2778.1	2587.4
22.5°	1785.8	1779.6	1785.8	1847.3	2031.8	2304.5	2653.0	3030.3	3118.5	3038.5	2810.9
25°	2093.3	2089.2	2038.0	1943.6	2007.2	2267.6	2687.9	3161.5	3364.5	3290.7	2991.3
27.5°	2544.4	2528.0	2448.0	2251.2	2122.0	2290.1	2745.3	3288.6	3579.8	3495.7	3153.3
30°	3028.2	2989.3	2884.7	2638.7	2419.3	2374.2	2778.1	3382.9	3819.6	3713.0	3294.8
32.5°	3362.4	3413.7	3380.9	3130.8	2794.5	2569.0	2831.4	3501.8	4041.1	3971.4	3536.7
35°	3879.1	3938.6	3801.2	3579.8	3241.5	2878.6	2944.2	3598.2	4381.4	4264.5	3762.2
37.5°	4531.1	4576.2	4477.8	4057.5	3700.7	3259.9	3175.9	3799.1	4674.6	4619.2	4051.3
40°	4859.1	5076.5	4937.0	4557.7	4174.3	3793.0	3559.3	4034.9	5185.1	5140.0	4451.1
42.5°	5312.2	5420.9	5349.1	5068.3	4668.4	4363.0	4032.9	4494.2	5804.3	5804.3	4992.4
45°	5792.0	5796.1	5792.0	5562.4	5207.7	5049.8	4672.5	5070.3	6470.6	6544.4	5640.3
47.5°	6185.6	6308.7	6298.4	6161.0	5886.3	5826.8	5312.2	5726.4	7307.1	7436.3	6271.8
50°	6388.6	6526.0	6567.0	6638.8	6626.5	6751.5	6011.4	6487.0	8028.8	8346.6	7083.7
52.5°	6333.3	6343.5	6595.7	6878.6	7329.7	7680.3	6854.0	7350.2	8873.5	9187.2	7711.0
55°	5880.2	5841.2	6359.9	6683.9	7616.7	8248.2	8020.6	8426.6	9531.7	10009.4	8358.9
57.5°	4885.8	4896.0	5375.8	6033.9	7403.5	8473.7	9267.2	9833.1	10454.3	10936.1	9269.2
60°	3372.7	3360.4	3897.6	4658.2	6150.8	8053.4	9984.8	11655.7	11688.6	12371.3	10903.3
62.5°	1896.5	1900.6	2308.6	2958.5	4303.5	6581.3	9949.9	13591.2	13451.8	14050.5	12760.8
65°	1074.3	1101.0	1381.9	1753.0	2577.2	4418.3	8557.8	14362.1	14811.1	15344.2	13888.5
66°	908.3	926.7	1166.6	1447.5	2056.4	3583.9	7702.8	14212.4	15237.6	15643.5	13865.9
67.5°	703.2	727.8	928.8	1148.1	1509.0	2480.8	6200.0	13468.2	15315.5	15553.3	13474.3
70°	481.8	498.2	652.0	871.4	1031.3	1269.1	3706.9	11135.0	13896.7	14097.6	11711.1
72.5°	338.3	346.5	457.2	660.2	793.5	725.8	1839.1	7922.2	10634.7	11026.3	9109.3
75°	244.0	252.2	313.7	473.6	619.2	475.7	842.7	5060.0	6521.9	6829.4	5486.5
77.5°	176.3	186.6	213.2	305.5	449.0	334.2	414.2	2642.8	3075.4	3022.1	2359.9
80°	106.6	116.9	157.9	196.8	328.0	235.8	227.6	1103.0	1090.7	1035.4	742.2
82.5°	49.2	57.4	84.1	133.3	229.6	164.0	108.7	393.7	344.4	315.7	209.1
85°	14.4	18.5	49.2	100.5	116.9	80.0	65.6	135.3	141.5	121.0	69.7
87.5°	0.0	2.1	22.6	24.6	34.9	26.7	24.6	34.9	65.6	53.3	22.6
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°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1671.0	1656.6	1621.8	1568.5	1521.3	1496.7	1461.8	1431.1	1414.7	1412.6	1410.6
5°	1712.0	1673.0	1589.0	1492.6	1420.8	1342.9	1289.6	1250.7	1213.8	1178.9	1199.4
7.5°	1767.3	1705.8	1568.5	1443.4	1287.6	1187.1	1092.8	1037.4	1004.6	973.9	969.8
10°	1853.4	1775.5	1554.1	1328.6	1150.2	1002.6	906.2	826.3	781.2	727.8	748.3
12.5°	1970.3	1830.9	1500.8	1224.0	994.4	838.6	701.2	572.0	500.3	444.9	447.0
15°	2087.2	1904.7	1451.6	1096.9	852.9	647.9	447.0	358.8	338.3	326.0	330.1
17.5°	2202.0	1964.2	1375.7	967.7	690.9	412.1	326.0	307.5	297.3	285.0	285.0
20°	2341.4	2003.1	1281.4	848.8	475.7	305.5	278.8	266.5	250.1	233.7	235.8
22.5°	2476.7	2035.9	1172.8	697.1	319.8	264.5	233.7	217.3	203.0	186.6	186.6
25°	2612.0	2046.2	1031.3	500.3	258.3	211.2	182.5	159.9	145.6	131.2	133.3
27.5°	2704.3	1982.6	898.0	319.8	207.1	159.9	127.1	108.7	96.4	82.0	82.0
30°	2757.6	1865.7	754.5	225.5	155.8	108.7	75.9	57.4	45.1	34.9	32.8
32.5°	2810.9	1771.4	592.5	172.2	102.5	57.4	28.7	10.3	0.0	0.0	0.0
35°	2917.5	1664.8	397.8	96.4	34.9	2.1	0.0	0.0	0.0	0.0	0.0
37.5°	2985.2	1517.2	182.5	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3155.4	1443.4	45.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3432.1	1392.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3735.6	1371.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4139.5	1427.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4565.9	1576.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5033.4	1718.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5441.4	1888.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6191.8	2290.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7538.8	3079.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9056.0	3665.9	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9611.6	3651.5	39.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9513.2	3450.6	39.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9002.7	3065.1	34.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7731.5	2532.1	34.9	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5894.5	1972.4	32.8	8.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3557.2	1049.7	26.7	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1416.7	369.0	20.5	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	383.4	110.7	12.3	8.2	6.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	100.5	41.0	10.3	8.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	39.0	16.4	8.2	6.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0
87.5°	12.3	6.2	6.2	4.1	4.1	2.1	2.1	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)