

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: P482315

Luminaire Tested: **IFLD-L-SA7A-722-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482315  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-722-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

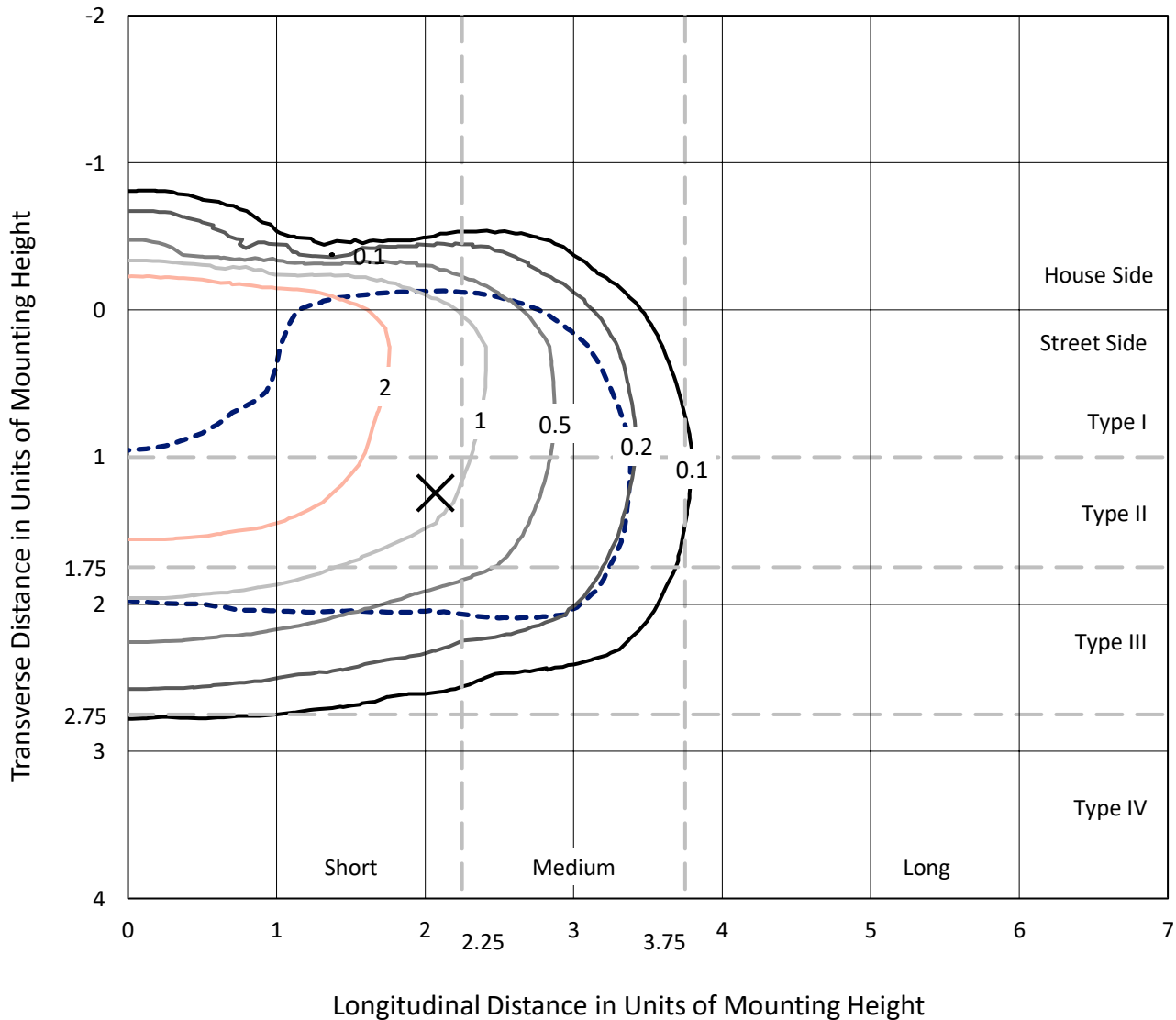
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17108.1 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

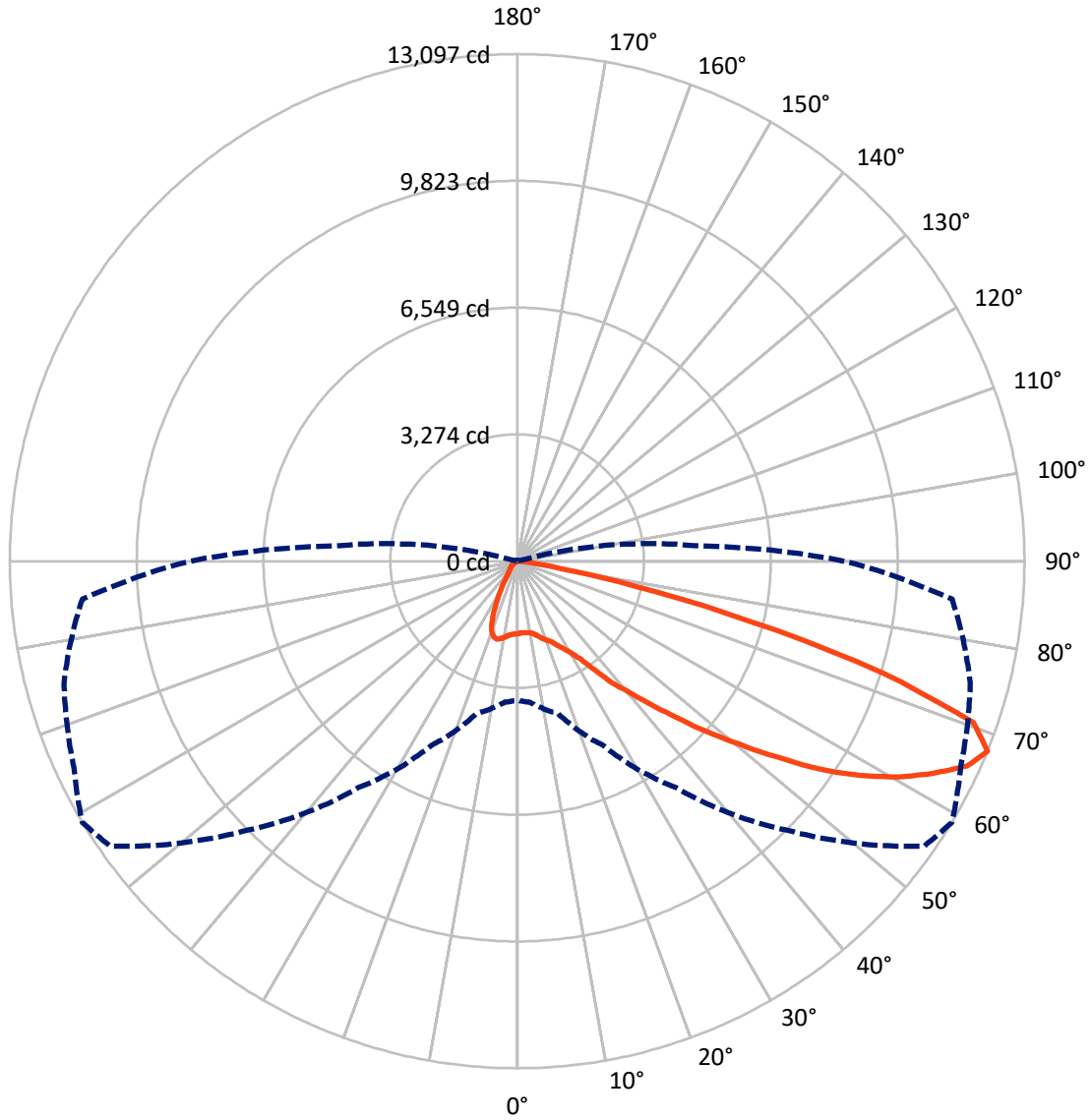
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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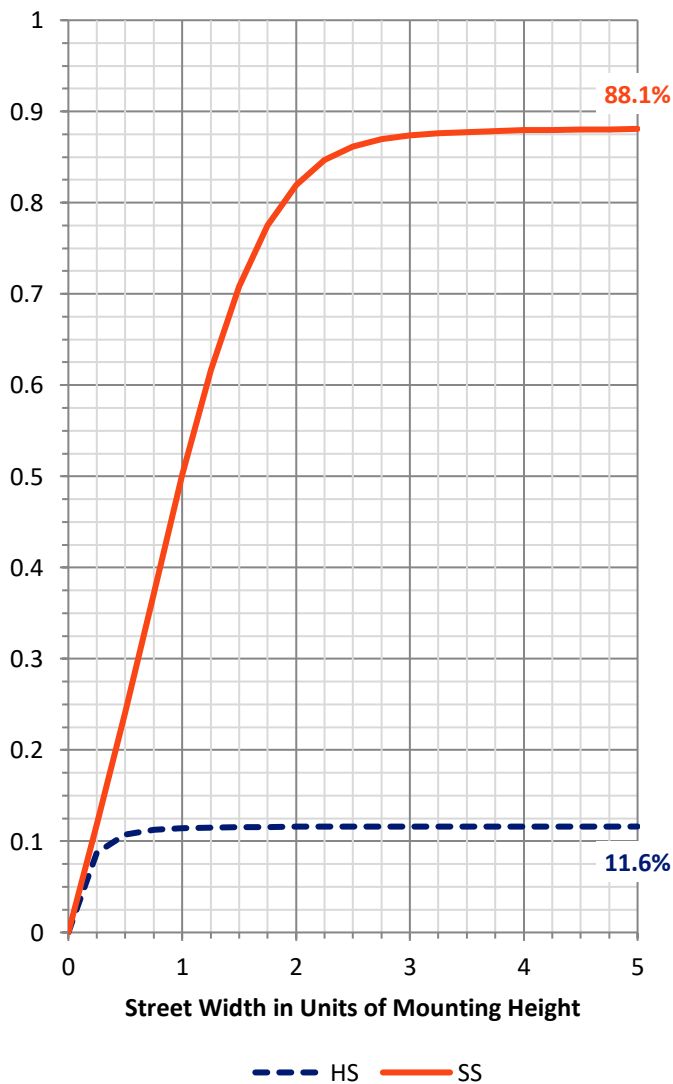
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2009.6	0.0	2009.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	15098.4	0.0	15098.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	17108.1	0.0	17108.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.2	1.0
10°-20°	514.9	3.0
20°-30°	899.9	5.3
30°-40°	1584.3	9.3
40°-50°	2800.6	16.4
50°-60°	4434.3	25.9
60°-70°	4918.9	28.8
70°-80°	1706.7	10.0
80°-90°	70.3	0.4
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°	17108.1	100.0
0°-180°	17108.1	100.0

**Coefficient of Utilization**

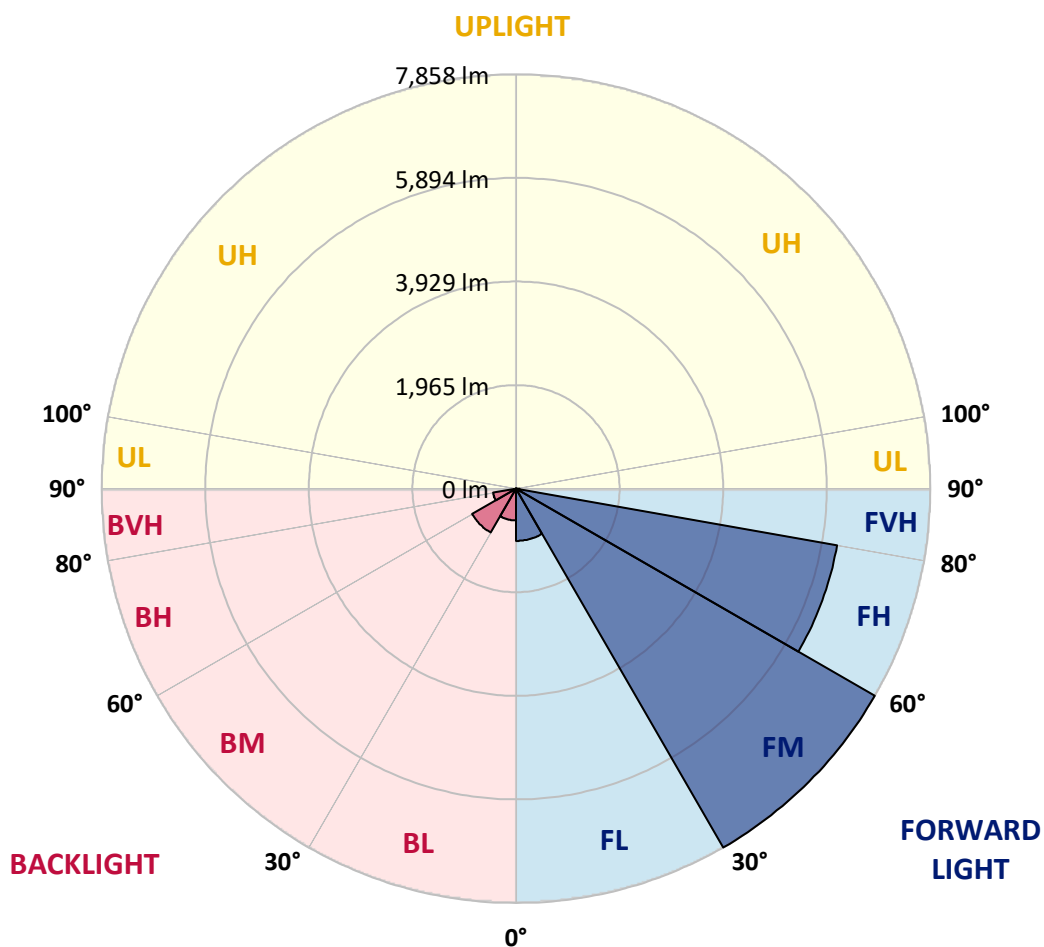


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.7	5.8			
FM (30°-60°)	7858.4	45.9			
FH (60°-80°)	6183.7	36.1			G3/7500
FVH (80°-90°)	65.7	0.4			G1/100
BL (0°-30°)	602.3	3.5	B2/1000		
BM (30°-60°)	960.8	5.6	B1/1000		
BH (60°-80°)	442.0	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4
2.5°	1822.1	1796.1	1819.7	1822.1	1824.5	1845.7	1869.4	1852.8	1850.5	1869.4	1885.9
5°	1748.8	1737.0	1765.4	1779.6	1803.2	1822.1	1859.9	1862.3	1864.6	1885.9	1914.3
7.5°	1718.1	1689.7	1722.8	1739.4	1755.9	1800.8	1845.7	1869.4	1902.4	1928.4	1956.8
10°	1656.7	1677.9	1687.4	1715.7	1763.0	1815.0	1869.4	1881.2	1954.4	1975.7	2044.2
12.5°	1677.9	1692.1	1711.0	1718.1	1770.1	1848.1	1921.4	1926.1	2001.7	2093.9	2129.3
15°	1732.3	1722.8	1729.9	1739.4	1800.8	1864.6	1982.8	2004.1	2075.0	2179.0	2266.4
17.5°	1848.1	1831.5	1819.7	1817.4	1831.5	1890.6	2030.1	2093.9	2160.0	2301.8	2346.7
20°	2138.8	2124.6	2077.3	1954.4	1911.9	1935.5	2086.8	2176.6	2268.8	2427.1	2500.4
22.5°	2580.7	2594.9	2483.8	2311.3	2134.0	2041.9	2176.6	2254.6	2401.1	2602.0	2668.2
25°	3103.0	3074.6	2939.9	2739.0	2460.2	2242.8	2320.7	2408.2	2587.8	2753.2	2779.2
27.5°	3511.8	3478.8	3374.8	3131.4	2890.3	2538.2	2509.8	2564.2	2776.9	2925.7	2897.4
30°	3916.0	3927.8	3856.9	3568.6	3270.8	2899.8	2720.1	2743.8	2906.8	3098.3	3034.5
32.5°	4431.2	4402.8	4362.6	4109.8	3757.6	3360.6	3053.4	3015.6	3086.5	3339.3	3263.7
35°	4910.9	4894.4	4840.0	4584.8	4277.5	3845.1	3544.9	3459.9	3443.3	3724.5	3592.2
37.5°	5329.2	5300.9	5218.1	5055.1	4757.3	4393.3	4064.9	3989.2	3986.9	4180.7	3925.4
40°	5681.3	5702.6	5693.2	5513.5	5350.5	5059.8	4556.4	4435.9	4426.4	4530.4	4381.5
42.5°	6137.5	6187.1	6161.1	6125.6	5929.5	5816.0	5246.5	5062.2	4979.4	5192.1	5057.4
45°	6827.5	6846.4	6863.0	6775.5	6579.4	6603.0	5960.2	5740.4	5719.2	6035.8	5733.3
47.5°	7472.7	7423.1	7538.9	7543.6	7534.2	7425.4	6730.6	6567.6	6595.9	6837.0	6525.0
50°	7633.4	7761.0	8080.1	8139.2	8292.8	8392.0	7586.2	7423.1	7470.3	7744.5	7387.6
52.5°	7758.7	7952.5	8271.5	8704.0	9117.6	9353.9	8543.3	8410.9	8408.6	8576.4	8084.8
55°	7978.5	8096.6	8373.1	8968.7	9755.6	10143.2	9696.6	9483.9	9292.4	9410.6	8808.0
57.5°	7957.2	8002.1	8432.2	9167.2	10261.4	10965.7	10644.2	10441.0	10195.2	10126.7	9639.8
60°	7583.8	7690.1	8172.2	9032.5	10573.3	11606.1	11528.1	11320.1	10897.1	10736.4	10277.9
62.5°	6844.1	6985.9	7364.0	8559.8	10119.6	11639.2	12137.8	12059.9	11587.2	11298.9	11109.8
65°	5546.6	5612.8	6047.7	7359.3	9093.9	11131.1	12858.6	12761.7	12326.9	11896.8	11537.6
67.5°	3592.2	3656.0	4074.3	5253.6	7141.9	9819.5	12830.3	13097.3	12627.0	12109.5	11270.5
70°	1696.8	1680.3	2070.2	2918.7	4575.3	7498.7	11963.0	12490.0	12090.6	10977.5	9361.0
72.5°	517.6	562.5	860.2	1292.7	2349.1	4676.9	9377.5	9871.4	9746.2	8770.2	6248.5
75°	229.2	248.1	337.9	529.4	952.4	1919.0	5792.4	6232.0	6177.6	5173.2	2852.5
77.5°	146.5	160.7	212.7	302.5	432.5	609.7	2668.2	3095.9	3001.4	1817.4	746.8
80°	104.0	111.1	151.3	208.0	271.8	250.5	919.3	1091.8	1046.9	493.9	200.9
82.5°	56.7	61.4	111.1	153.6	182.0	127.6	257.6	321.4	335.6	219.8	96.9
85°	21.3	26.0	68.5	108.7	94.5	59.1	75.6	92.2	120.5	120.5	44.9
87.5°	0.0	2.4	28.4	47.3	23.6	16.5	21.3	26.0	33.1	56.7	16.5
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°	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4	1876.4
2.5°	1897.7	1881.2	1888.3	1900.1	1874.1	1888.3	1859.9	1881.2	1888.3	1859.9	1874.1
5°	1921.4	1937.9	1928.4	1909.5	1893.0	1897.7	1890.6	1874.1	1888.3	1893.0	1883.5
7.5°	1989.9	1971.0	1975.7	1954.4	1921.4	1919.0	1874.1	1862.3	1867.0	1871.7	1855.2
10°	2053.7	2065.5	2041.9	2025.3	1971.0	1935.5	1874.1	1807.9	1800.8	1772.5	1796.1
12.5°	2167.1	2138.8	2129.3	2075.0	2020.6	1902.4	1770.1	1668.5	1583.4	1552.7	1522.0
15°	2261.7	2256.9	2240.4	2157.7	2032.4	1817.4	1566.9	1330.5	1167.5	1065.8	1051.7
17.5°	2391.6	2370.4	2339.7	2209.7	1945.0	1595.2	1167.5	869.7	706.6	642.8	619.2
20°	2490.9	2474.4	2431.8	2197.9	1786.6	1188.7	723.2	553.0	512.8	501.0	503.4
22.5°	2635.1	2583.1	2502.7	2138.8	1498.3	791.7	519.9	493.9	486.8	477.4	479.7
25°	2760.3	2713.1	2545.3	2037.2	1068.2	524.6	482.1	467.9	456.1	444.3	441.9
27.5°	2871.4	2812.3	2590.2	1829.2	668.8	451.4	446.7	430.1	406.5	387.6	380.5
30°	2980.1	2911.6	2602.0	1439.2	451.4	408.8	397.0	371.0	340.3	314.3	309.6
32.5°	3162.1	3079.4	2585.4	1028.0	389.9	363.9	337.9	307.2	262.3	241.1	236.3
35°	3445.7	3320.4	2564.2	605.0	349.8	321.4	281.2	241.1	208.0	186.7	182.0
37.5°	3771.8	3554.4	2502.7	404.1	321.4	283.6	231.6	191.4	163.1	146.5	141.8
40°	4256.3	3897.1	2266.4	330.9	286.0	241.1	186.7	151.3	130.0	118.2	113.4
42.5°	4790.4	4289.4	1902.4	297.8	252.9	205.6	148.9	122.9	106.3	94.5	94.5
45°	5430.8	4698.2	1467.6	271.8	224.5	170.2	122.9	99.3	85.1	75.6	70.9
47.5°	6144.5	5069.2	990.2	245.8	189.1	139.4	101.6	75.6	61.4	54.4	54.4
50°	6782.6	5397.7	631.0	215.1	165.4	115.8	82.7	61.4	49.6	40.2	37.8
52.5°	7361.6	5648.3	434.8	189.1	141.8	94.5	68.5	49.6	37.8	30.7	30.7
55°	7954.8	5775.9	321.4	163.1	122.9	80.4	56.7	44.9	33.1	26.0	23.6
57.5°	8441.7	5830.2	245.8	141.8	104.0	63.8	49.6	37.8	28.4	21.3	18.9
60°	8857.6	5804.2	191.4	118.2	82.7	54.4	42.5	30.7	23.6	16.5	14.2
62.5°	9101.0	5648.3	151.3	101.6	66.2	47.3	35.4	26.0	16.5	11.8	9.5
65°	9105.7	5317.4	118.2	75.6	49.6	40.2	30.7	21.3	11.8	4.7	2.4
67.5°	8453.5	4601.3	94.5	59.1	40.2	30.7	23.6	16.5	4.7	0.0	0.0
70°	6612.5	3481.1	78.0	47.3	33.1	26.0	16.5	9.5	2.4	0.0	0.0
72.5°	4213.7	2084.4	63.8	37.8	28.4	18.9	11.8	7.1	0.0	0.0	0.0
75°	1763.0	642.8	49.6	33.1	21.3	14.2	9.5	2.4	0.0	0.0	0.0
77.5°	453.8	203.2	40.2	28.4	21.3	11.8	7.1	2.4	0.0	0.0	0.0
80°	134.7	75.6	33.1	23.6	16.5	9.5	4.7	2.4	0.0	0.0	0.0
82.5°	61.4	44.9	28.4	21.3	14.2	9.5	4.7	0.0	0.0	0.0	0.0
85°	23.6	14.2	14.2	11.8	11.8	7.1	2.4	0.0	0.0	0.0	0.0
87.5°	9.5	4.7	4.7	4.7	2.4	2.4	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)