

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: P399511

Luminaire Tested: **ARCH-L-PA3-150-750-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-150-750-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17388 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

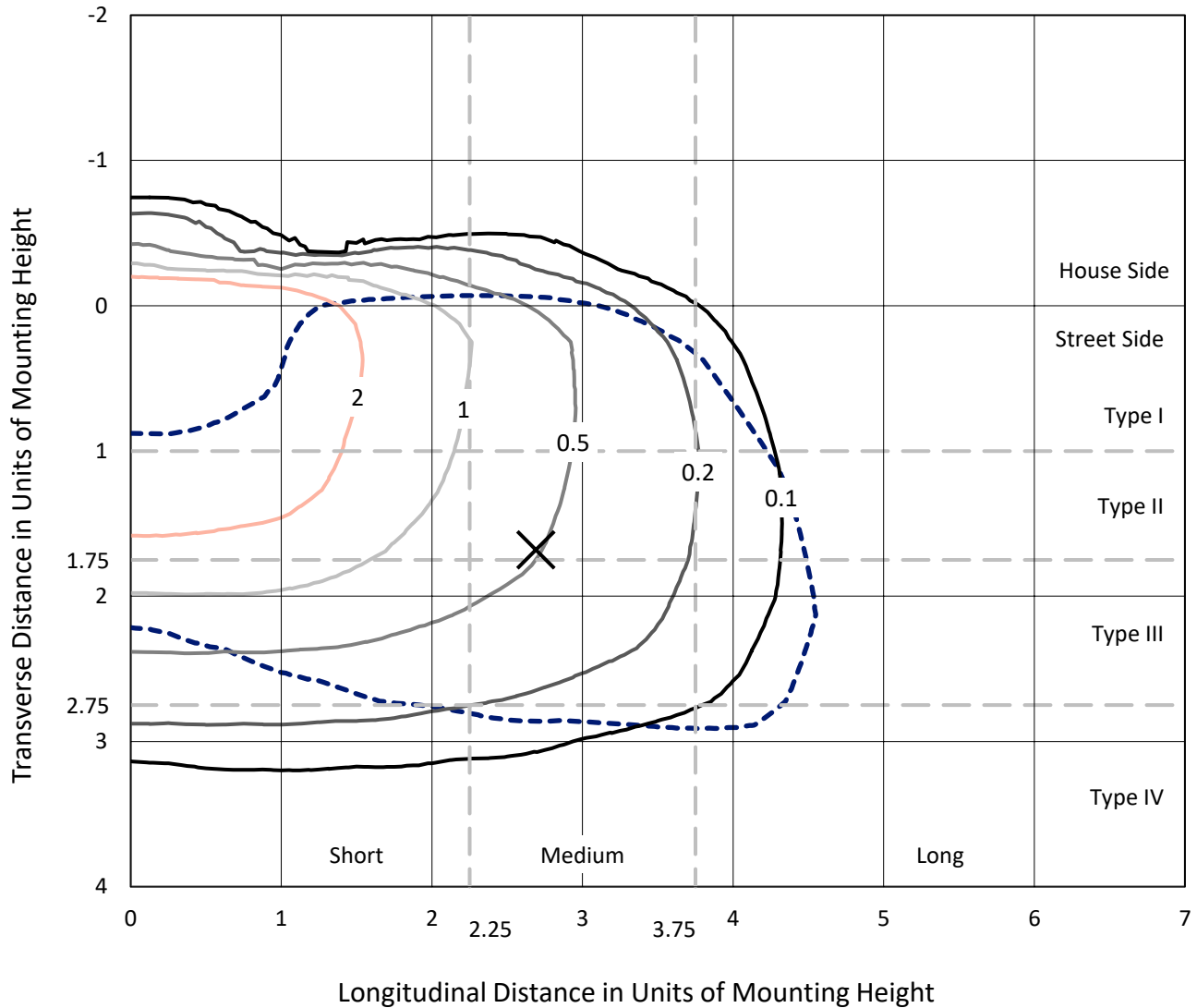
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

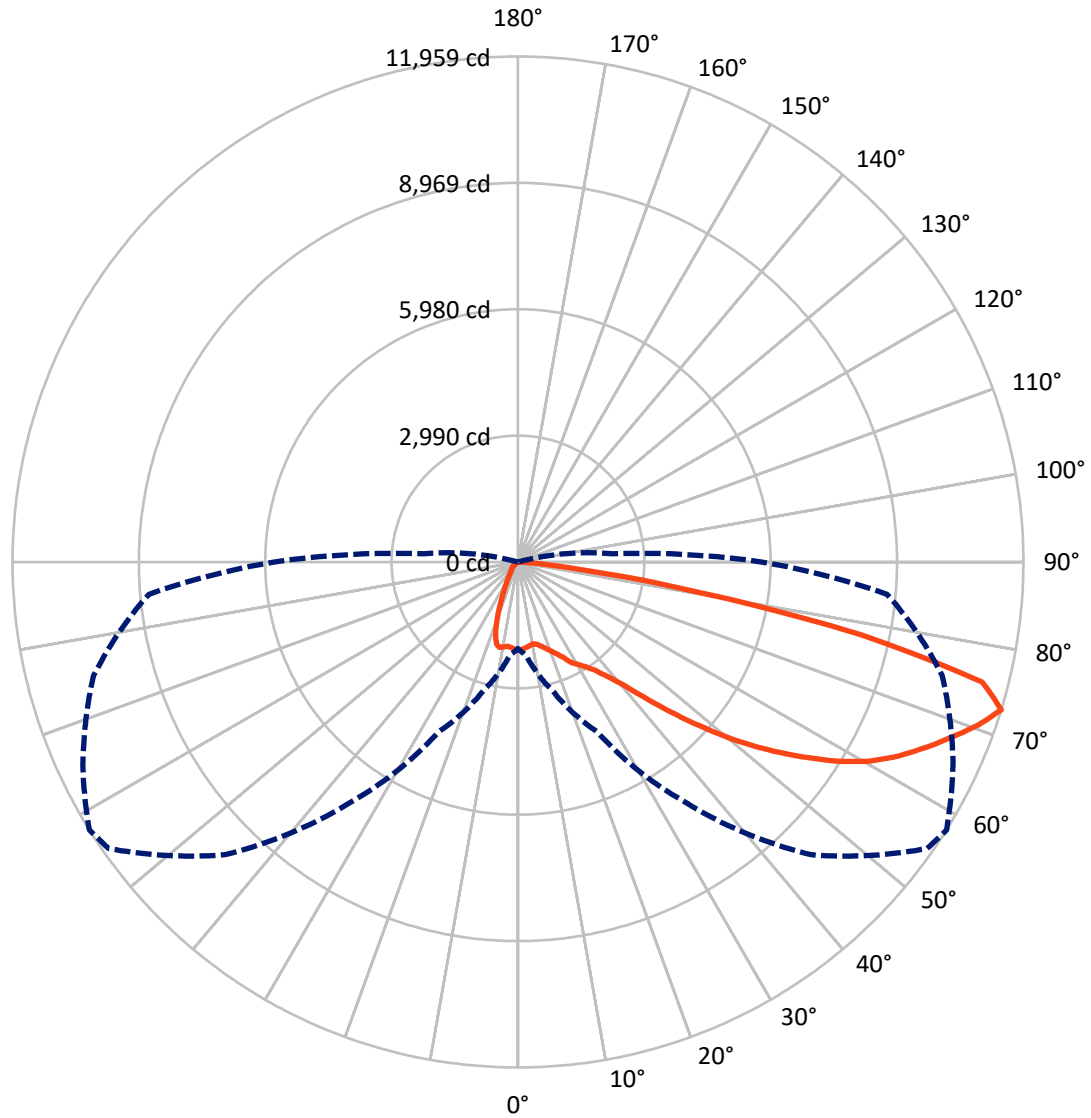
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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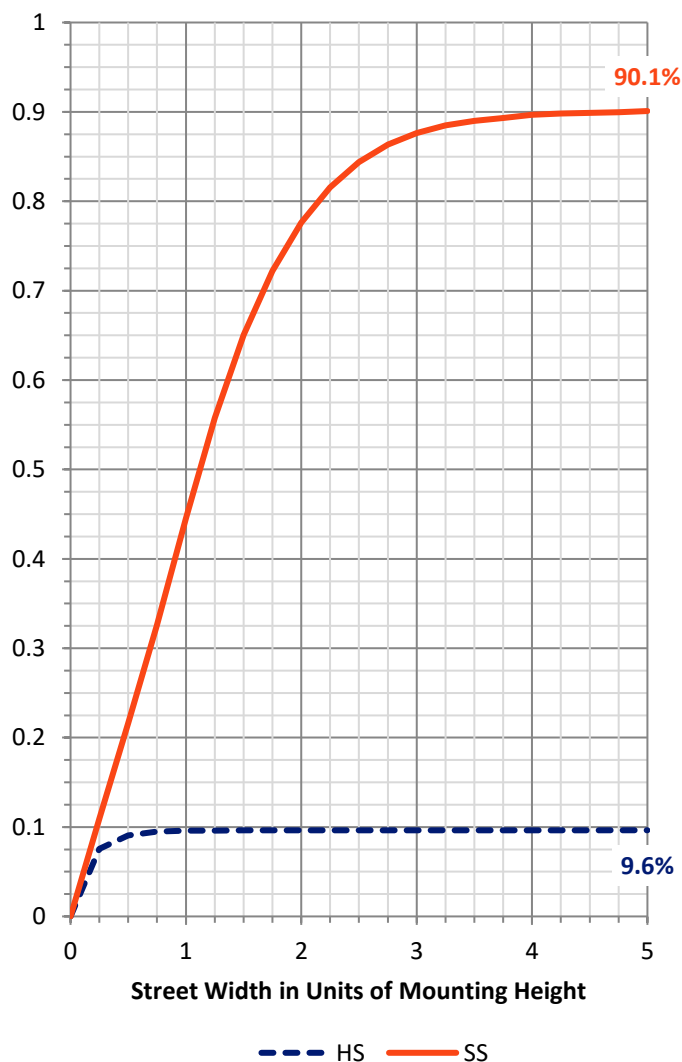
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1690.8	0.0	1690.8
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	15697.1	0.0	15697.1
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	17388.0	0.0	17388.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.5	1.1
10°-20°	498.7	2.9
20°-30°	783.5	4.5
30°-40°	1351.2	7.8
40°-50°	2570.7	14.8
50°-60°	4071.2	23.4
60°-70°	4750.6	27.3
70°-80°	2975.3	17.1
80°-90°	195.3	1.1
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°	17388.0	100.0
0°-180°	17388.0	100.0

**Coefficient of Utilization**



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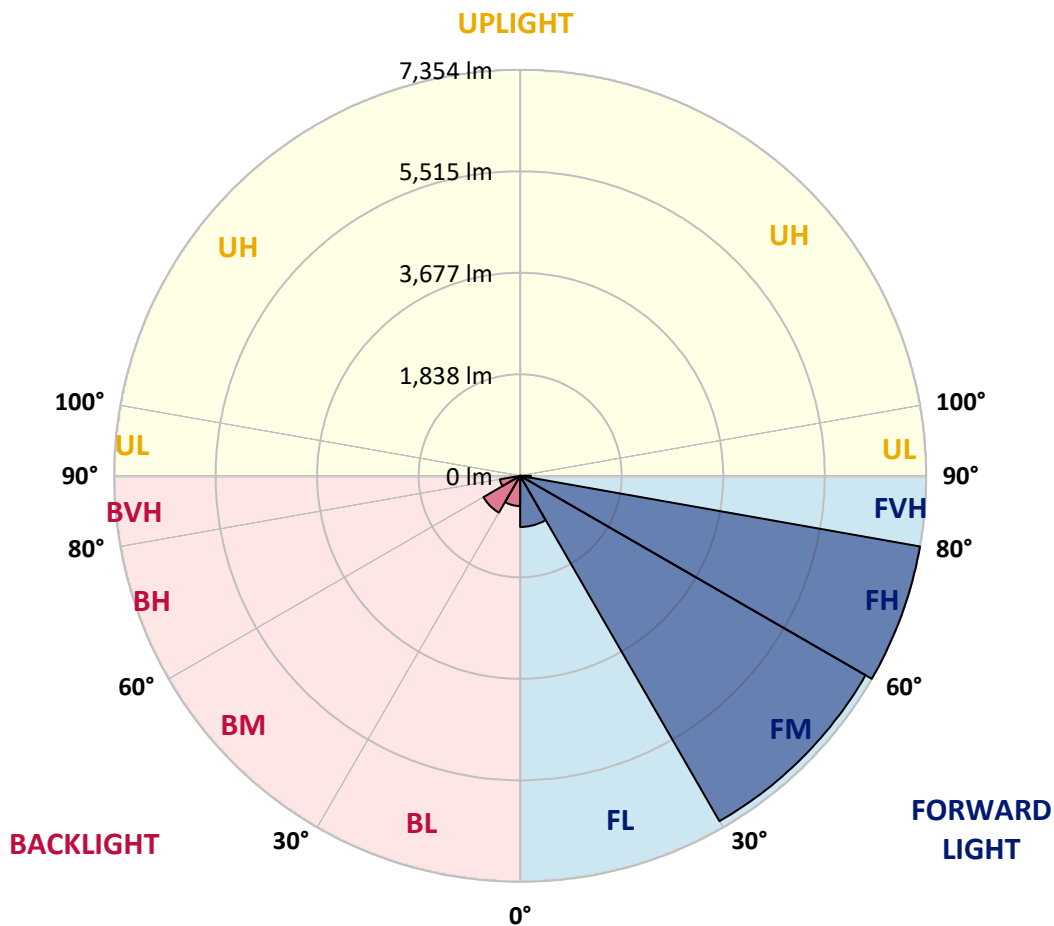
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.1	5.3			
FM (30°-60°)	7223.7	41.5			
FH (60°-80°)	7353.9	42.3			G3/7500
FVH (80°-90°)	193.4	1.1			G2/225
BL (0°-30°)	547.6	3.1	B2/1000		
BM (30°-60°)	769.4	4.4	B1/1000		
BH (60°-80°)	372.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5
2.5°	2077.1	2067.8	2064.7	2061.6	2064.7	2067.8	2058.5	2067.8	2061.6	2064.7	2070.9
5°	2002.5	1993.2	1990.1	1993.2	2002.5	2018.0	2024.3	2033.6	2033.6	2042.9	2046.0
7.5°	1918.5	1912.3	1909.2	1915.4	1934.1	1968.3	1987.0	1999.4	2011.8	2030.5	2049.1
10°	1871.9	1868.8	1865.7	1875.0	1893.7	1924.8	1949.6	1968.3	2014.9	2067.8	2102.0
12.5°	1840.8	1840.8	1847.0	1865.7	1890.6	1915.4	1974.5	1999.4	2070.9	2151.8	2198.4
15°	1815.9	1815.9	1825.3	1859.5	1893.7	1952.7	2039.8	2067.8	2151.8	2251.3	2313.4
17.5°	1797.3	1803.5	1809.7	1843.9	1909.2	2008.7	2111.3	2151.8	2254.4	2363.2	2431.6
20°	1800.4	1806.6	1809.7	1843.9	1937.2	2074.0	2204.6	2251.3	2369.4	2484.5	2552.9
22.5°	1819.0	1828.4	1831.5	1878.1	1987.0	2142.4	2310.3	2363.2	2490.7	2612.0	2664.8
25°	1896.8	1903.0	1884.3	1924.8	2058.5	2248.1	2447.2	2503.1	2630.6	2742.6	2786.1
27.5°	2161.1	2167.3	2064.7	2018.0	2114.4	2335.2	2615.1	2692.8	2851.4	2926.0	2932.2
30°	2733.2	2739.4	2537.3	2316.6	2248.1	2409.8	2708.3	2817.2	3022.4	3106.4	3069.0
32.5°	3470.2	3463.9	3187.2	2860.7	2565.3	2540.4	2842.1	2957.1	3181.0	3261.8	3233.8
35°	4210.2	4219.6	3983.2	3491.9	3069.0	2786.1	3013.1	3146.8	3417.3	3532.4	3482.6
37.5°	4717.1	4779.3	4676.6	4144.9	3687.8	3240.1	3289.8	3432.9	3771.8	3927.3	3821.5
40°	5432.2	5416.7	5167.9	4776.1	4371.9	3911.7	3737.6	3806.0	4194.7	4403.0	4238.2
42.5°	6393.1	6362.0	5939.1	5556.6	5105.7	4729.5	4375.0	4362.6	4679.8	4922.3	4682.9
45°	7263.7	7217.1	6927.9	6557.9	6063.5	5631.2	5152.4	5043.6	5264.3	5469.6	5189.7
47.5°	7957.1	7879.4	7674.2	7478.3	7357.0	6685.4	5967.1	5802.3	5914.2	6066.6	5671.7
50°	8778.0	8563.5	8265.0	8146.8	8398.7	7879.4	6750.7	6592.1	6585.9	6672.9	6169.2
52.5°	9151.2	8762.5	8594.6	8694.1	9138.7	8989.5	7596.4	7369.4	7279.3	7288.6	6632.5
55°	8700.3	8656.8	8746.9	9057.9	9639.4	9552.3	8408.0	8128.2	7994.4	7826.5	7077.2
57.5°	8187.2	8320.9	8678.5	9272.4	10273.7	10140.0	9207.1	8890.0	8644.3	8258.8	7571.6
60°	7714.6	7851.4	8442.2	9322.2	10621.9	10705.9	9872.6	9570.9	9207.1	8700.3	8115.7
62.5°	6996.3	7102.0	7932.3	9250.7	10469.6	11035.5	10335.9	10108.9	9770.0	9120.1	8740.7
65°	6187.8	6256.3	7077.2	8678.5	10171.1	10998.2	10718.3	10590.9	10261.2	9558.5	9359.5
67.5°	5301.6	5382.5	6066.6	7649.3	9586.5	10824.1	11079.0	11066.6	10690.4	10043.6	9807.3
70°	4281.7	4288.0	4853.9	6343.3	8566.6	10475.8	11526.8	11554.8	11100.8	10407.4	9825.9
72.5°	2049.1	2217.1	3146.8	4427.9	6962.1	9791.7	11819.1	11959.0	11358.9	10395.0	8765.6
75°	469.5	485.1	917.3	2105.1	4082.7	7515.6	11088.4	11349.6	10730.8	8989.5	6175.4
77.5°	171.0	180.3	258.1	615.7	1570.3	3883.7	7935.4	8317.8	7932.3	5811.6	2919.8
80°	115.1	111.9	133.7	273.6	721.4	1100.8	4057.9	4284.8	3911.7	1983.8	699.6
82.5°	59.1	62.2	93.3	152.4	485.1	382.5	1355.7	1473.9	1212.7	398.0	130.6
85°	28.0	28.0	52.9	96.4	205.2	133.7	301.6	363.8	326.5	174.1	43.5
87.5°	28.0	28.0	49.8	62.2	105.7	56.0	74.6	93.3	87.1	93.3	15.5
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°	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5	2086.5
2.5°	2070.9	2067.8	2064.7	2070.9	2067.8	2074.0	2074.0	2080.2	2080.2	2074.0	2070.9
5°	2042.9	2036.7	2030.5	2030.5	2027.4	2033.6	2052.2	2067.8	2070.9	2061.6	2058.5
7.5°	2046.0	2046.0	2039.8	2027.4	2005.6	2005.6	2005.6	2024.3	2033.6	2027.4	2024.3
10°	2102.0	2105.1	2089.6	2061.6	2024.3	1990.1	1924.8	1828.4	1738.2	1713.3	1704.0
12.5°	2198.4	2201.5	2170.4	2120.7	2042.9	1840.8	1592.0	1361.9	1184.7	1135.0	1125.6
15°	2313.4	2316.6	2260.6	2179.7	1943.4	1473.9	1103.9	842.7	687.2	649.9	646.8
17.5°	2431.6	2425.4	2341.4	2186.0	1648.0	1044.8	671.6	537.9	497.5	488.2	491.3
20°	2546.7	2528.0	2412.9	2070.9	1268.7	684.1	491.3	460.2	450.9	444.7	444.7
22.5°	2652.4	2615.1	2472.0	1843.9	889.3	491.3	438.4	432.2	419.8	410.4	407.3
25°	2758.1	2705.2	2509.3	1548.5	597.0	429.1	413.6	401.1	385.6	373.1	370.0
27.5°	2885.6	2811.0	2490.7	1175.4	447.8	398.0	385.6	366.9	345.2	326.5	320.3
30°	3006.9	2922.9	2385.0	811.6	382.5	366.9	348.3	320.3	292.3	270.5	264.3
32.5°	3159.2	3062.8	2195.3	531.7	332.7	320.3	301.6	267.4	230.1	205.2	199.0
35°	3376.9	3268.1	1952.7	373.1	292.3	270.5	245.6	208.3	167.9	149.3	146.1
37.5°	3681.6	3535.5	1648.0	301.6	258.1	227.0	189.7	152.4	124.4	108.8	105.7
40°	4054.7	3830.9	1309.1	267.4	230.1	189.7	143.0	108.8	90.2	77.7	77.7
42.5°	4459.0	4107.6	963.9	245.6	202.1	155.5	105.7	77.7	65.3	59.1	56.0
45°	4875.6	4353.3	649.9	227.0	177.2	118.2	74.6	52.9	43.5	43.5	40.4
47.5°	5307.9	4518.1	419.8	205.2	149.3	87.1	49.8	37.3	31.1	31.1	31.1
50°	5737.0	4605.1	298.5	186.6	121.3	59.1	37.3	28.0	24.9	24.9	24.9
52.5°	6047.9	4549.2	239.4	161.7	93.3	43.5	28.0	21.8	18.7	18.7	18.7
55°	6318.4	4452.8	208.3	139.9	68.4	31.1	21.8	18.7	15.5	15.5	15.5
57.5°	6595.2	4328.4	186.6	118.2	49.8	21.8	15.5	12.4	12.4	12.4	12.4
60°	6847.1	4116.9	161.7	93.3	34.2	15.5	12.4	9.3	9.3	9.3	9.3
62.5°	7092.7	3936.6	139.9	71.5	24.9	12.4	6.2	6.2	3.1	3.1	3.1
65°	7232.6	3694.0	111.9	46.6	15.5	9.3	3.1	3.1	0.0	0.0	0.0
67.5°	7189.1	3404.9	77.7	28.0	9.3	6.2	3.1	0.0	0.0	0.0	0.0
70°	6887.5	3016.2	46.6	15.5	9.3	6.2	3.1	0.0	0.0	0.0	0.0
72.5°	5768.1	2232.6	28.0	12.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0
75°	3852.6	1026.1	15.5	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	1763.1	307.8	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	354.5	80.8	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	74.6	15.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.1	0.0	0.0	0.0	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)