

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: P399765

Luminaire Tested: **ARCH-L-PA3-190-722-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399765  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-190-722-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14667 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3

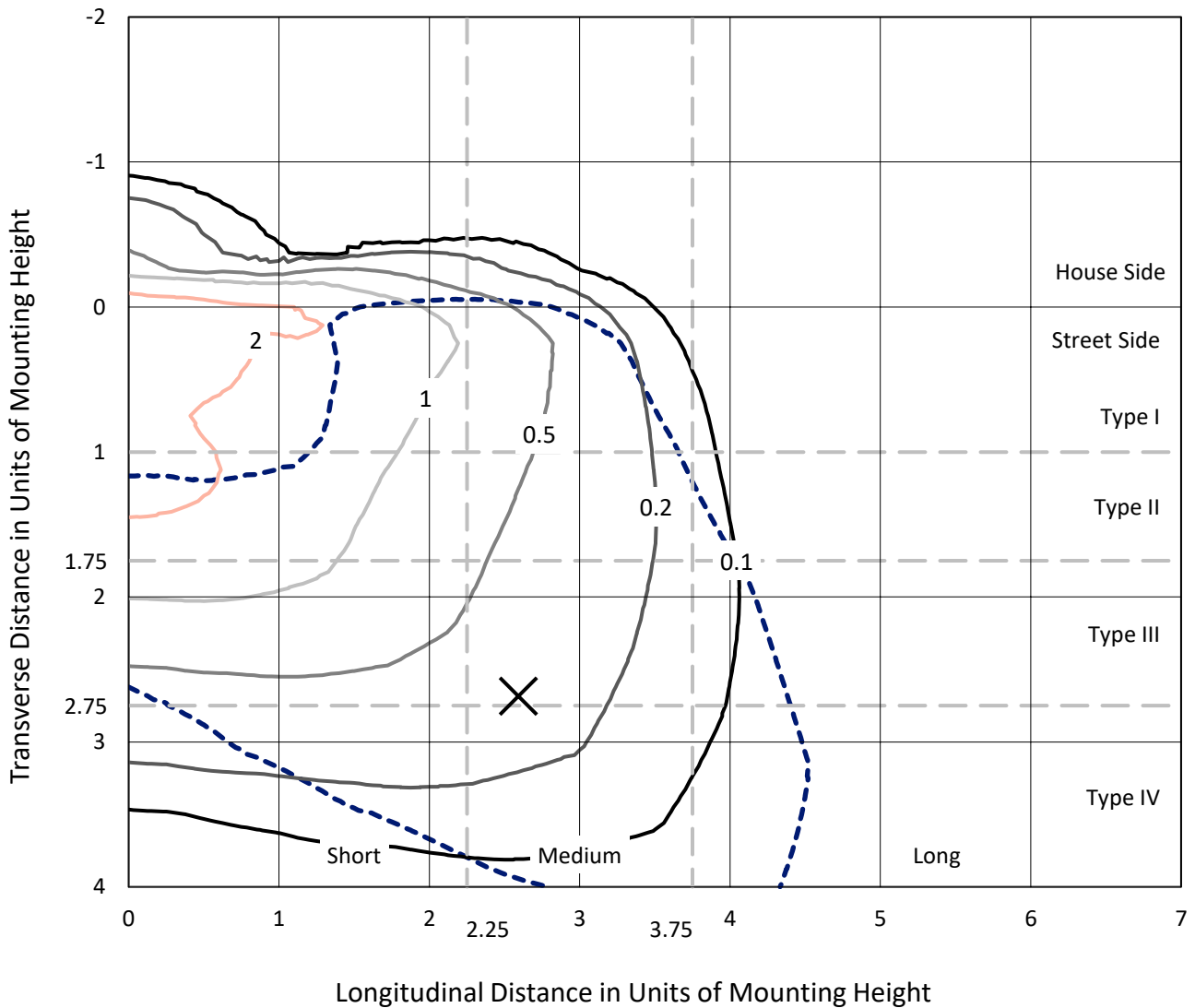
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

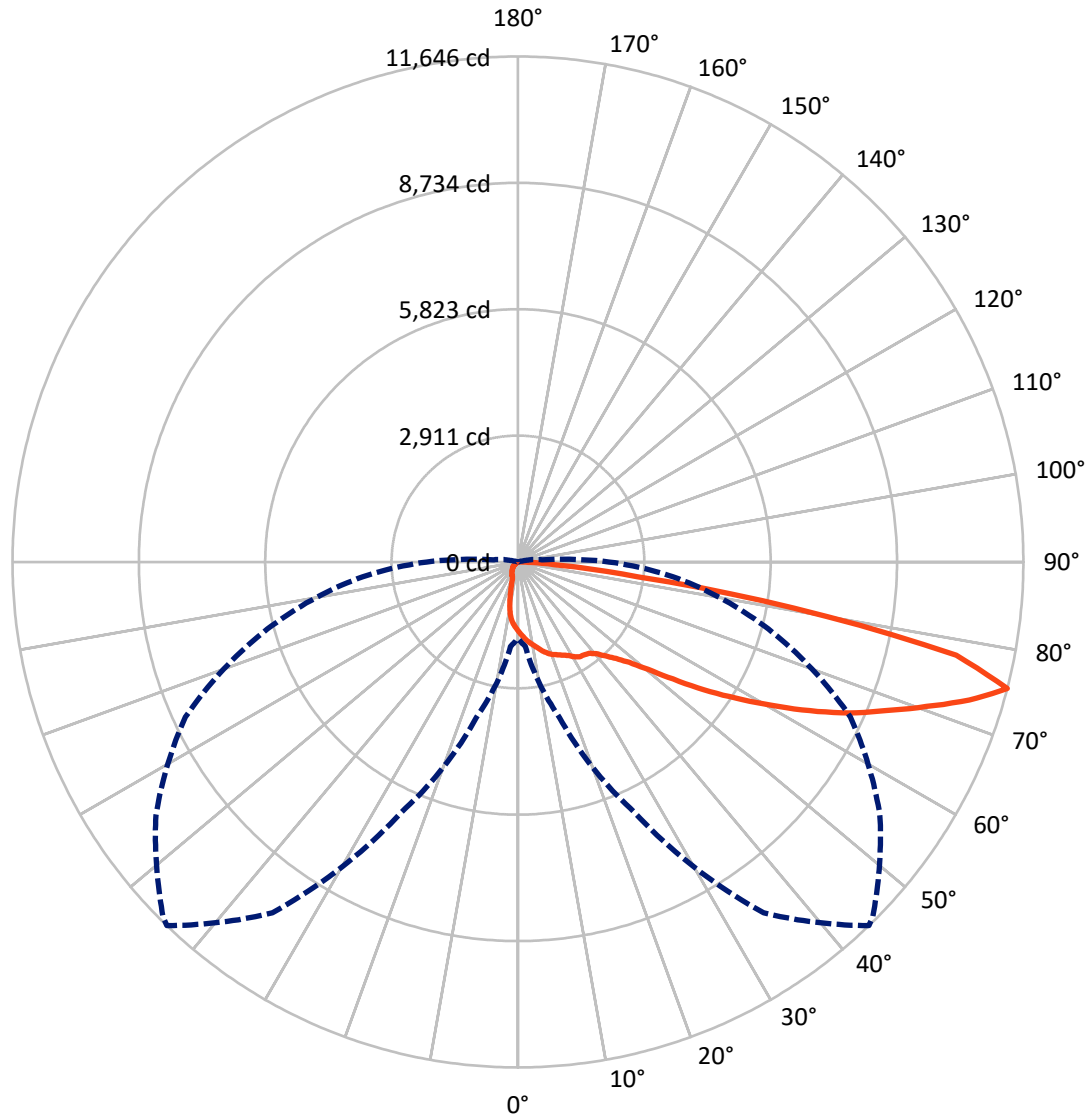
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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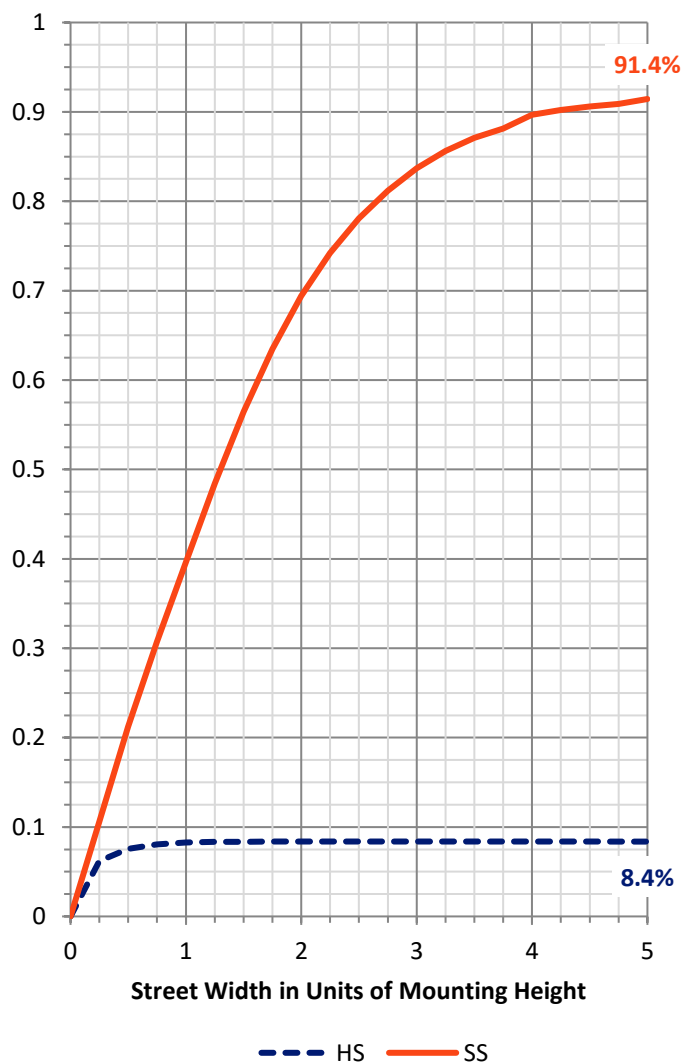
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1236.9	0.0	1236.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	13430.1	0.0	13430.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	14667.0	0.0	14667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	1.0
10°-20°	421.9	2.9
20°-30°	696.2	4.7
30°-40°	1010.5	6.9
40°-50°	1642.6	11.2
50°-60°	2895.7	19.7
60°-70°	4161.8	28.4
70°-80°	3332.6	22.7
80°-90°	355.1	2.4
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°	14667.0	100.0
0°-180°	14667.0	100.0

**Coefficient of Utilization**



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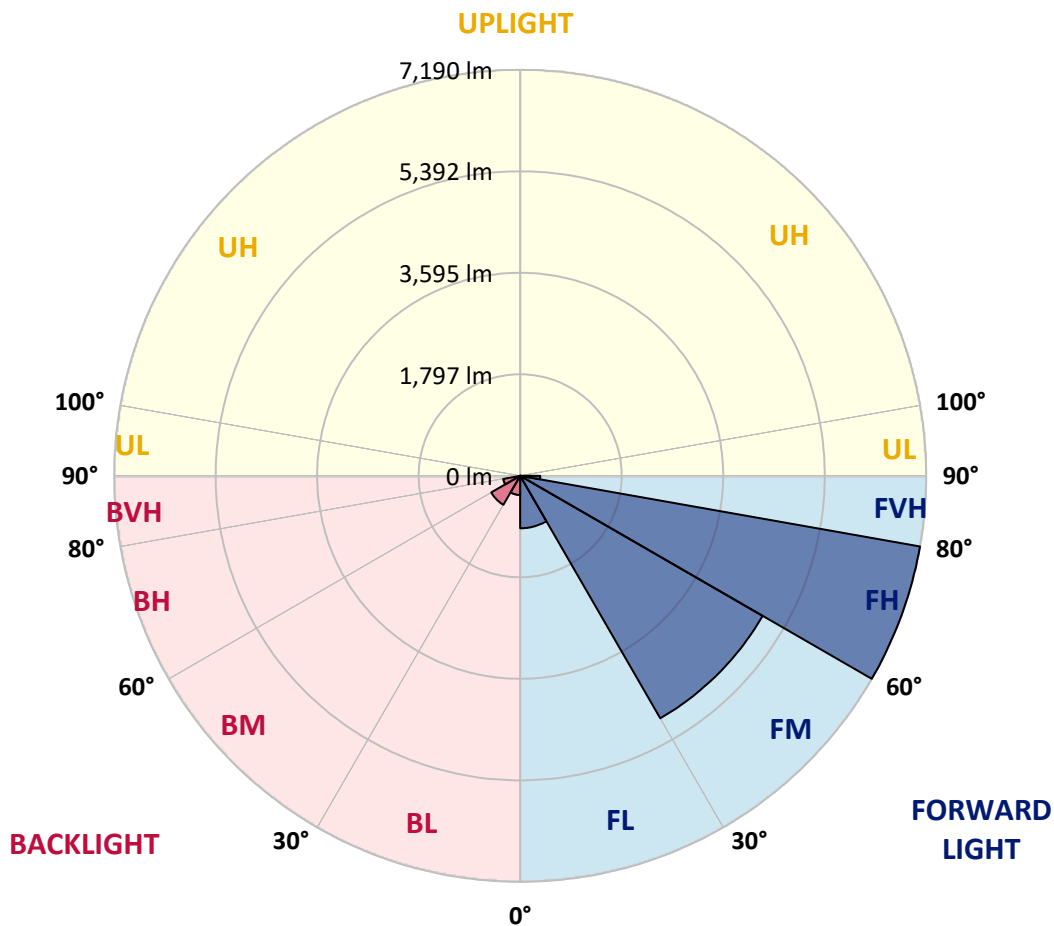
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	928.8	6.3			
FM (30°-60°)	4957.6	33.8			
FH (60°-80°)	7189.5	49.0			G3/7500
FVH (80°-90°)	354.2	2.4			G3/500
BL (0°-30°)	339.8	2.3	B1/500		
BM (30°-60°)	591.3	4.0	B1/1000		
BH (60°-80°)	304.9	2.1	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1739.9	1737.2	1729.0	1715.5	1702.0	1688.4	1685.7	1664.1	1639.7	1620.8	1604.6
5°	1894.1	1891.4	1877.9	1848.1	1818.3	1783.2	1780.4	1729.0	1683.0	1631.6	1588.3
7.5°	2053.7	2048.3	2024.0	1978.0	1926.6	1872.4	1867.0	1791.3	1723.6	1656.0	1593.7
10°	2178.2	2172.8	2137.6	2083.5	2013.1	1945.5	1937.4	1858.9	1791.3	1704.7	1620.8
12.5°	2300.0	2289.1	2243.1	2183.6	2097.0	2032.1	2024.0	1942.8	1861.6	1772.3	1669.5
15°	2413.6	2400.1	2356.8	2281.0	2189.0	2126.8	2121.4	2034.8	1950.9	1848.1	1734.4
17.5°	2492.1	2486.7	2435.3	2351.4	2262.1	2210.7	2205.3	2116.0	2032.1	1923.9	1802.1
20°	2532.7	2532.7	2484.0	2392.0	2310.8	2275.6	2267.5	2183.6	2102.4	1999.6	1872.4
22.5°	2540.8	2548.9	2511.0	2410.9	2351.4	2321.6	2316.2	2243.1	2164.7	2070.0	1950.9
25°	2557.0	2557.0	2538.1	2429.8	2386.6	2378.4	2375.7	2310.8	2240.4	2145.7	2029.4
27.5°	2576.0	2576.0	2562.4	2456.9	2440.7	2438.0	2435.3	2405.5	2348.7	2237.7	2121.4
30°	2624.7	2627.4	2616.6	2511.0	2500.2	2530.0	2535.4	2519.1	2448.8	2310.8	2216.1
32.5°	2746.4	2722.1	2692.3	2548.9	2567.8	2605.7	2608.4	2576.0	2500.2	2389.3	2329.7
35°	3052.2	2908.8	2773.5	2581.4	2589.5	2627.4	2632.8	2630.1	2584.1	2489.4	2459.6
37.5°	3336.3	3133.4	2941.3	2657.1	2630.1	2670.7	2681.5	2727.5	2692.3	2627.4	2635.5
40°	3501.4	3422.9	3287.6	2865.5	2711.3	2773.5	2784.3	2854.7	2841.1	2814.1	2865.5
42.5°	4010.1	4015.5	3869.4	3176.7	2860.1	2960.2	2973.7	3030.5	3049.5	3063.0	3187.5
45°	4599.9	4618.9	4583.7	3736.8	3141.5	3174.0	3192.9	3268.7	3339.0	3425.6	3652.9
47.5°	5308.9	5292.6	5162.7	4421.3	3631.2	3449.9	3463.5	3609.6	3731.4	3920.8	4245.5
50°	5936.6	5977.2	5731.0	5059.9	4321.2	3885.6	3872.1	4015.5	4234.6	4499.8	4908.4
52.5°	6569.8	6510.3	6177.4	5693.1	5138.4	4478.2	4437.6	4516.1	4824.5	5138.4	5557.8
55°	6737.5	6743.0	6629.3	6385.8	5820.3	5197.9	5130.3	5124.9	5509.1	5722.9	6239.7
57.5°	7067.7	7081.2	7108.2	7157.0	6889.1	5917.7	5847.3	5771.6	6145.0	6269.4	6924.3
60°	7403.2	7419.4	7584.5	7846.9	7668.4	6694.3	6618.5	6439.9	6648.3	6816.0	7644.0
62.5°	7359.9	7473.5	7952.5	8474.7	8453.1	7546.6	7451.9	7021.7	7154.2	7300.4	8304.2
65°	6645.6	6767.3	7844.2	8647.9	9240.5	8388.1	8233.9	7622.4	7630.5	7806.4	8940.1
67.5°	6007.0	6139.6	7167.8	8574.8	9760.0	9143.0	8983.4	8225.8	8098.6	8390.8	9281.0
70°	5639.0	5771.6	6629.3	8347.5	9906.1	9979.1	9841.2	8915.8	8656.0	8923.9	8899.5
72.5°	4413.2	4621.6	5942.0	7914.6	10063.0	10874.8	10766.5	9789.7	9129.5	8366.5	6775.4
75°	1758.8	1950.9	3709.7	6369.6	9865.5	11645.9	11562.1	10182.1	8450.3	5974.5	3468.9
77.5°	530.3	568.2	1030.9	3149.6	7232.7	10325.5	10298.4	8561.3	5979.9	2773.5	947.0
80°	175.9	194.8	316.6	868.6	3301.1	6450.7	6572.5	5455.0	2716.7	635.9	192.1
82.5°	73.1	81.2	159.6	349.1	1168.9	2778.9	2738.3	2443.4	947.0	395.1	70.4
85°	18.9	24.4	73.1	200.2	427.5	957.9	1006.6	819.9	535.8	327.4	21.6
87.5°	0.0	0.0	35.2	81.2	192.1	289.5	303.1	248.9	303.1	246.2	10.8
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°	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4	1596.4
2.5°	1591.0	1577.5	1553.2	1536.9	1515.3	1509.9	1499.0	1485.5	1482.8	1469.3	1472.0
5°	1564.0	1542.3	1499.0	1469.3	1434.1	1423.3	1404.3	1390.8	1380.0	1361.0	1363.7
7.5°	1558.6	1526.1	1466.6	1409.7	1352.9	1312.3	1255.5	1209.5	1171.6	1131.0	1139.2
10°	1577.5	1536.9	1453.0	1374.6	1271.7	1141.9	993.0	895.6	846.9	798.2	803.6
12.5°	1615.4	1566.7	1458.4	1339.4	1131.0	909.2	703.5	570.9	535.8	514.1	516.8
15°	1672.2	1612.7	1474.7	1271.7	941.6	657.5	468.1	411.3	424.8	432.9	432.9
17.5°	1731.7	1664.1	1488.2	1150.0	727.9	460.0	381.5	376.1	395.1	414.0	414.0
20°	1804.8	1718.2	1490.9	995.8	524.9	373.4	359.9	359.9	373.4	395.1	395.1
22.5°	1875.1	1777.7	1466.6	819.9	400.5	346.3	346.3	346.3	354.5	376.1	378.8
25°	1959.0	1850.8	1415.2	633.2	343.6	330.1	330.1	332.8	338.2	357.2	359.9
27.5°	2048.3	1926.6	1328.6	462.7	313.9	311.2	313.9	316.6	319.3	338.2	343.6
30°	2151.1	2010.4	1217.6	346.3	286.8	286.8	294.9	300.3	300.3	316.6	322.0
32.5°	2270.2	2121.4	1085.0	286.8	259.8	257.1	270.6	278.7	278.7	292.2	297.6
35°	2419.0	2235.0	925.4	254.3	238.1	232.7	238.1	251.6	257.1	267.9	270.6
37.5°	2616.6	2370.3	754.9	235.4	221.9	211.1	211.1	213.8	224.6	235.4	238.1
40°	2868.2	2519.1	587.2	221.9	205.6	194.8	186.7	184.0	181.3	189.4	194.8
42.5°	3184.8	2686.9	438.3	208.3	192.1	175.9	165.1	154.2	140.7	138.0	140.7
45°	3590.7	2892.5	324.7	197.5	184.0	159.6	140.7	121.8	97.4	89.3	92.0
47.5°	4069.6	3106.3	254.3	186.7	178.6	140.7	116.4	83.9	59.5	54.1	56.8
50°	4578.3	3312.0	216.5	173.2	167.8	121.8	83.9	51.4	35.2	35.2	37.9
52.5°	5011.2	3428.3	197.5	162.4	151.5	100.1	54.1	29.8	21.6	21.6	24.4
55°	5430.6	3490.5	184.0	151.5	129.9	70.4	29.8	18.9	13.5	13.5	13.5
57.5°	5863.6	3517.6	167.8	138.0	102.8	43.3	16.2	10.8	8.1	8.1	8.1
60°	6247.8	3466.2	143.4	113.6	67.6	21.6	8.1	8.1	5.4	2.7	2.7
62.5°	6569.8	3368.8	100.1	81.2	40.6	10.8	5.4	2.7	0.0	0.0	0.0
65°	6767.3	3211.8	64.9	54.1	24.4	8.1	2.7	0.0	0.0	0.0	0.0
67.5°	6710.5	2916.9	40.6	35.2	10.8	5.4	2.7	0.0	0.0	0.0	0.0
70°	6055.7	2392.0	29.8	21.6	8.1	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	4364.5	1618.1	21.6	13.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2099.7	576.3	13.5	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	514.1	127.2	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	113.6	24.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.9	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	2.7	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)