

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: P399205

Luminaire Tested: **ARCH-L-PA3-110-730-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399205  
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-PA3-110-730-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 485mA 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: 12161 lumens  
Efficiency: N/A  
Efficacy: 107.6 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

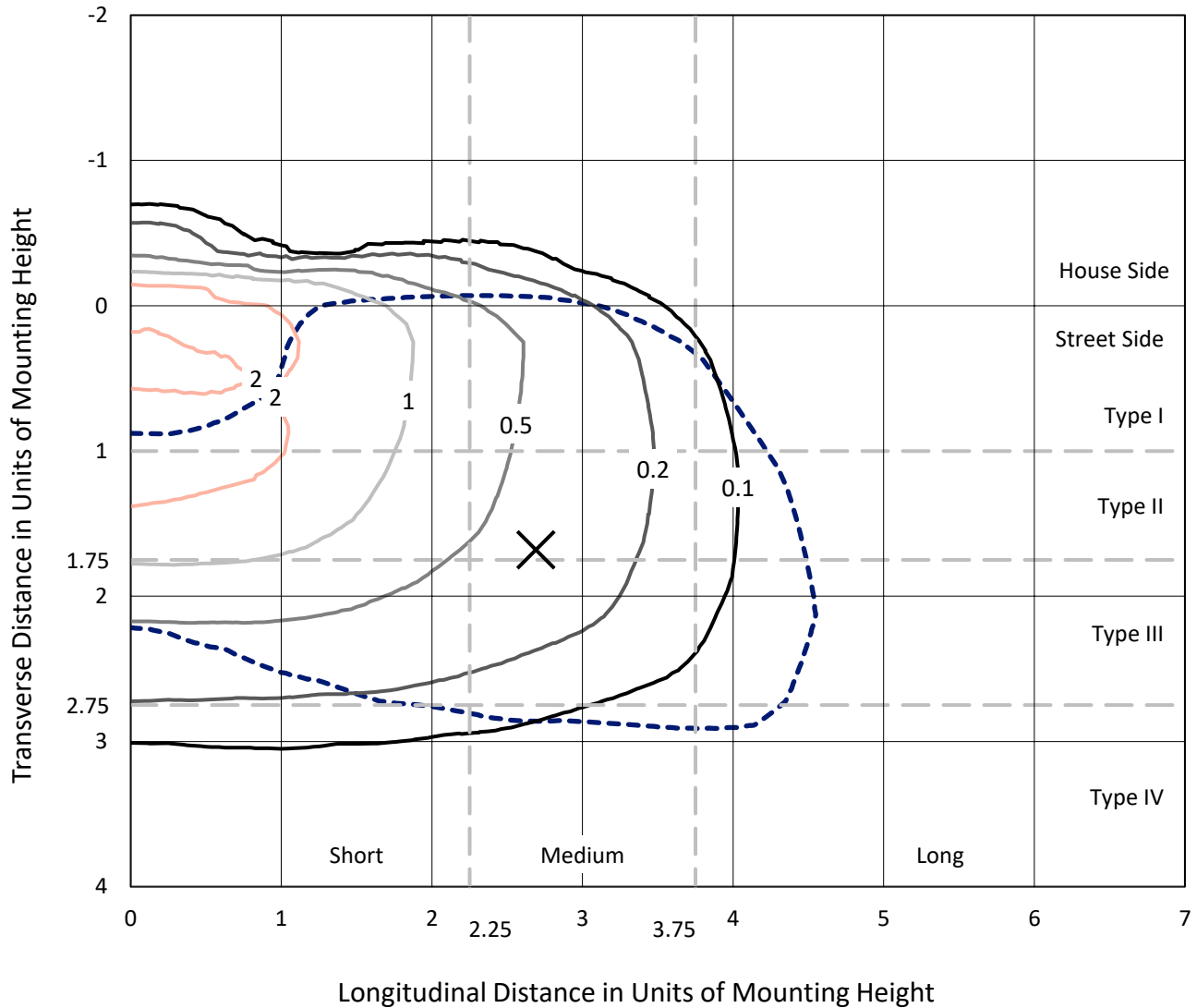
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

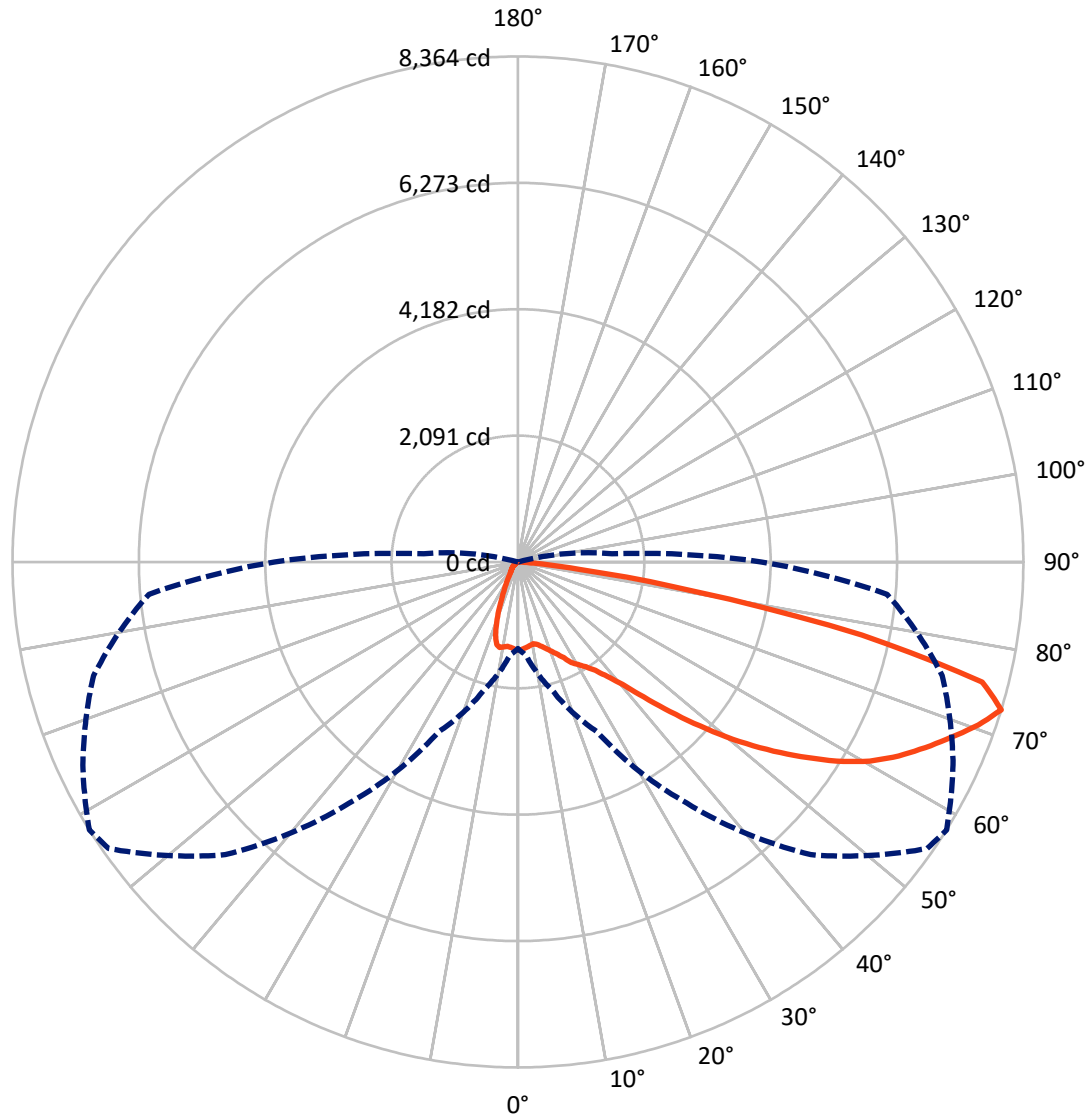
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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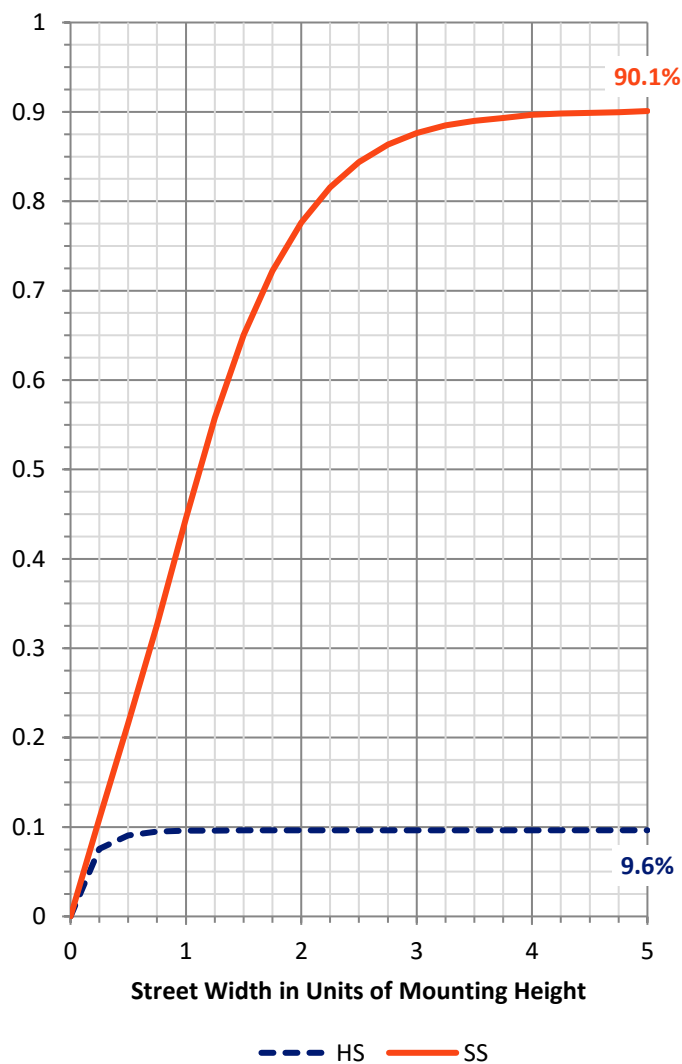
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1182.6	0.0	1182.6
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	10978.4	0.0	10978.4
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	12161.0	0.0	12161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.9	1.1
10°-20°	348.8	2.9
20°-30°	548.0	4.5
30°-40°	945.0	7.8
40°-50°	1797.9	14.8
50°-60°	2847.4	23.4
60°-70°	3322.5	27.3
70°-80°	2080.9	17.1
80°-90°	136.6	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°	12161.0	100.0
0°-180°	12161.0	100.0

**Coefficient of Utilization**

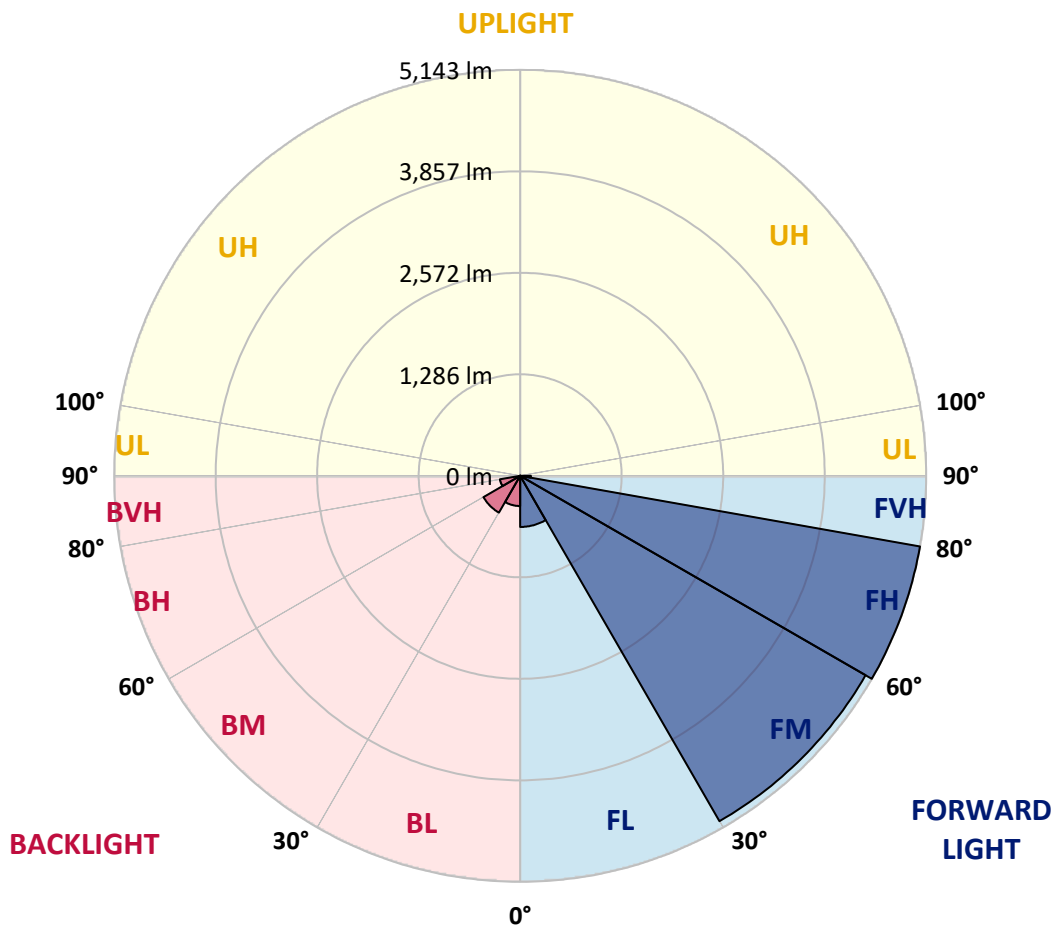


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.7	5.3			
FM (30°-60°)	5052.2	41.5			
FH (60°-80°)	5143.2	42.3			G3/7500
FVH (80°-90°)	135.3	1.1			G2/225
BL (0°-30°)	383.0	3.1	B1/500		
BM (30°-60°)	538.1	4.4	B1/1000		
BH (60°-80°)	260.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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°	45°	55°	58°	65°	75°	85°
0°	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1452.7	1446.2	1444.0	1441.8	1444.0	1446.2	1439.7	1446.2	1441.8	1444.0	1448.4
5°	1400.5	1394.0	1391.8	1394.0	1400.5	1411.4	1415.8	1422.3	1422.3	1428.8	1431.0
7.5°	1341.8	1337.5	1335.3	1339.6	1352.7	1376.6	1389.7	1398.4	1407.1	1420.1	1433.1
10°	1309.2	1307.0	1304.8	1311.4	1324.4	1346.2	1363.6	1376.6	1409.2	1446.2	1470.1
12.5°	1287.4	1287.4	1291.8	1304.8	1322.2	1339.6	1381.0	1398.4	1448.4	1504.9	1537.5
15°	1270.0	1270.0	1276.6	1300.5	1324.4	1365.7	1426.6	1446.2	1504.9	1574.5	1618.0
17.5°	1257.0	1261.3	1265.7	1289.6	1335.3	1404.9	1476.6	1504.9	1576.7	1652.8	1700.6
20°	1259.2	1263.5	1265.7	1289.6	1354.9	1450.5	1541.9	1574.5	1657.1	1737.6	1785.5
22.5°	1272.2	1278.7	1280.9	1313.5	1389.7	1498.4	1615.8	1652.8	1742.0	1826.8	1863.7
25°	1326.6	1330.9	1317.9	1346.2	1439.7	1572.3	1711.5	1750.7	1839.8	1918.1	1948.6
27.5°	1511.4	1515.8	1444.0	1411.4	1478.8	1633.2	1829.0	1883.3	1994.2	2046.4	2050.8
30°	1911.6	1915.9	1774.6	1620.2	1572.3	1685.4	1894.2	1970.3	2113.8	2172.6	2146.5
32.5°	2427.0	2422.7	2229.1	2000.8	1794.2	1776.8	1987.7	2068.2	2224.8	2281.3	2261.7
35°	2944.6	2951.1	2785.8	2442.2	2146.5	1948.6	2107.3	2200.8	2390.0	2470.5	2435.7
37.5°	3299.1	3342.6	3270.8	2898.9	2579.2	2266.1	2300.9	2400.9	2638.0	2746.7	2672.7
40°	3799.3	3788.4	3614.4	3340.4	3057.7	2735.8	2614.0	2661.9	2933.7	3079.4	2964.2
42.5°	4471.3	4449.5	4153.7	3886.2	3570.9	3307.8	3059.8	3051.2	3273.0	3442.6	3275.1
45°	5080.2	5047.6	4845.3	4586.5	4240.7	3938.4	3603.5	3527.4	3681.8	3825.4	3629.6
47.5°	5565.1	5510.8	5367.2	5230.2	5145.4	4675.7	4173.3	4058.1	4136.3	4242.9	3966.7
50°	6139.3	5989.2	5780.4	5697.8	5874.0	5510.8	4721.3	4610.4	4606.1	4667.0	4314.7
52.5°	6400.2	6128.4	6011.0	6080.6	6391.5	6287.2	5312.9	5154.1	5091.1	5097.6	4638.7
55°	6084.9	6054.5	6117.5	6335.0	6741.7	6680.8	5880.5	5684.8	5591.2	5473.8	4949.7
57.5°	5726.1	5819.6	6069.7	6485.1	7185.3	7091.8	6439.4	6217.6	6045.8	5776.1	5295.5
60°	5395.5	5491.2	5904.4	6519.8	7428.9	7487.6	6904.8	6693.8	6439.4	6084.9	5676.1
62.5°	4893.1	4967.1	5547.7	6469.8	7322.3	7718.1	7228.8	7070.1	6833.0	6378.5	6113.2
65°	4327.7	4375.6	4949.7	6069.7	7113.6	7692.0	7496.3	7407.1	7176.6	6685.1	6545.9
67.5°	3707.9	3764.5	4242.9	5349.8	6704.7	7570.2	7748.6	7739.9	7476.7	7024.4	6859.1
70°	2994.6	2999.0	3394.8	4436.5	5991.4	7326.7	8061.7	8081.3	7763.8	7278.8	6872.2
72.5°	1433.1	1550.6	2200.8	3096.8	4869.2	6848.2	8266.2	8364.0	7944.3	7270.1	6130.6
75°	328.4	339.3	641.5	1472.3	2855.4	5256.3	7755.1	7937.8	7505.0	6287.2	4319.0
77.5°	119.6	126.1	180.5	430.6	1098.2	2716.2	5549.9	5817.4	5547.7	4064.6	2042.1
80°	80.5	78.3	93.5	191.4	504.5	769.9	2838.0	2996.8	2735.8	1387.5	489.3
82.5°	41.3	43.5	65.2	106.6	339.3	267.5	948.2	1030.8	848.1	278.4	91.3
85°	19.6	19.6	37.0	67.4	143.5	93.5	210.9	254.4	228.3	121.8	30.4
87.5°	19.6	19.6	34.8	43.5	73.9	39.1	52.2	65.2	60.9	65.2	10.9
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°	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2	1459.2
2.5°	1448.4	1446.2	1444.0	1448.4	1446.2	1450.5	1450.5	1454.9	1454.9	1450.5	1448.4
5°	1428.8	1424.5	1420.1	1420.1	1417.9	1422.3	1435.3	1446.2	1448.4	1441.8	1439.7
7.5°	1431.0	1431.0	1426.6	1417.9	1402.7	1402.7	1402.7	1415.8	1422.3	1417.9	1415.8
10°	1470.1	1472.3	1461.4	1441.8	1415.8	1391.8	1346.2	1278.7	1215.7	1198.3	1191.8
12.5°	1537.5	1539.7	1518.0	1483.2	1428.8	1287.4	1113.5	952.5	828.6	793.8	787.3
15°	1618.0	1620.2	1581.0	1524.5	1359.2	1030.8	772.0	589.4	480.6	454.5	452.3
17.5°	1700.6	1696.3	1637.6	1528.8	1152.6	730.7	469.7	376.2	348.0	341.4	343.6
20°	1781.1	1768.1	1687.6	1448.4	887.3	478.4	343.6	321.9	315.3	311.0	311.0
22.5°	1855.0	1829.0	1728.9	1289.6	622.0	343.6	306.6	302.3	293.6	287.1	284.9
25°	1929.0	1892.0	1755.0	1083.0	417.5	300.1	289.2	280.5	269.7	261.0	258.8
27.5°	2018.2	1966.0	1742.0	822.0	313.2	278.4	269.7	256.6	241.4	228.3	224.0
30°	2103.0	2044.2	1668.0	567.6	267.5	256.6	243.6	224.0	204.4	189.2	184.9
32.5°	2209.5	2142.1	1535.4	371.9	232.7	224.0	210.9	187.0	160.9	143.5	139.2
35°	2361.8	2285.6	1365.7	261.0	204.4	189.2	171.8	145.7	117.4	104.4	102.2
37.5°	2574.9	2472.7	1152.6	210.9	180.5	158.8	132.7	106.6	87.0	76.1	73.9
40°	2835.9	2679.3	915.6	187.0	160.9	132.7	100.0	76.1	63.1	54.4	54.4
42.5°	3118.6	2872.8	674.2	171.8	141.4	108.7	73.9	54.4	45.7	41.3	39.1
45°	3410.0	3044.6	454.5	158.8	124.0	82.6	52.2	37.0	30.4	30.4	28.3
47.5°	3712.3	3159.9	293.6	143.5	104.4	60.9	34.8	26.1	21.7	21.7	21.7
50°	4012.4	3220.8	208.8	130.5	84.8	41.3	26.1	19.6	17.4	17.4	17.4
52.5°	4229.9	3181.6	167.5	113.1	65.2	30.4	19.6	15.2	13.0	13.0	13.0
55°	4419.1	3114.2	145.7	97.9	47.8	21.7	15.2	13.0	10.9	10.9	10.9
57.5°	4612.6	3027.2	130.5	82.6	34.8	15.2	10.9	8.7	8.7	8.7	8.7
60°	4788.8	2879.3	113.1	65.2	23.9	10.9	8.7	6.5	6.5	6.5	6.5
62.5°	4960.6	2753.2	97.9	50.0	17.4	8.7	4.3	4.3	2.2	2.2	2.2
65°	5058.4	2583.6	78.3	32.6	10.9	6.5	2.2	2.2	0.0	0.0	0.0
67.5°	5028.0	2381.3	54.4	19.6	6.5	4.3	2.2	0.0	0.0	0.0	0.0
70°	4817.0	2109.5	32.6	10.9	6.5	4.3	2.2	0.0	0.0	0.0	0.0
72.5°	4034.1	1561.5	19.6	8.7	4.3	2.2	0.0	0.0	0.0	0.0	0.0
75°	2694.5	717.7	10.9	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1233.1	215.3	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	247.9	56.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.2	10.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.2	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)