

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: P399340

Luminaire Tested: **ARCH-L-PA3-130-727-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399340  
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-PA3-130-727-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 575mA 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: 12901 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

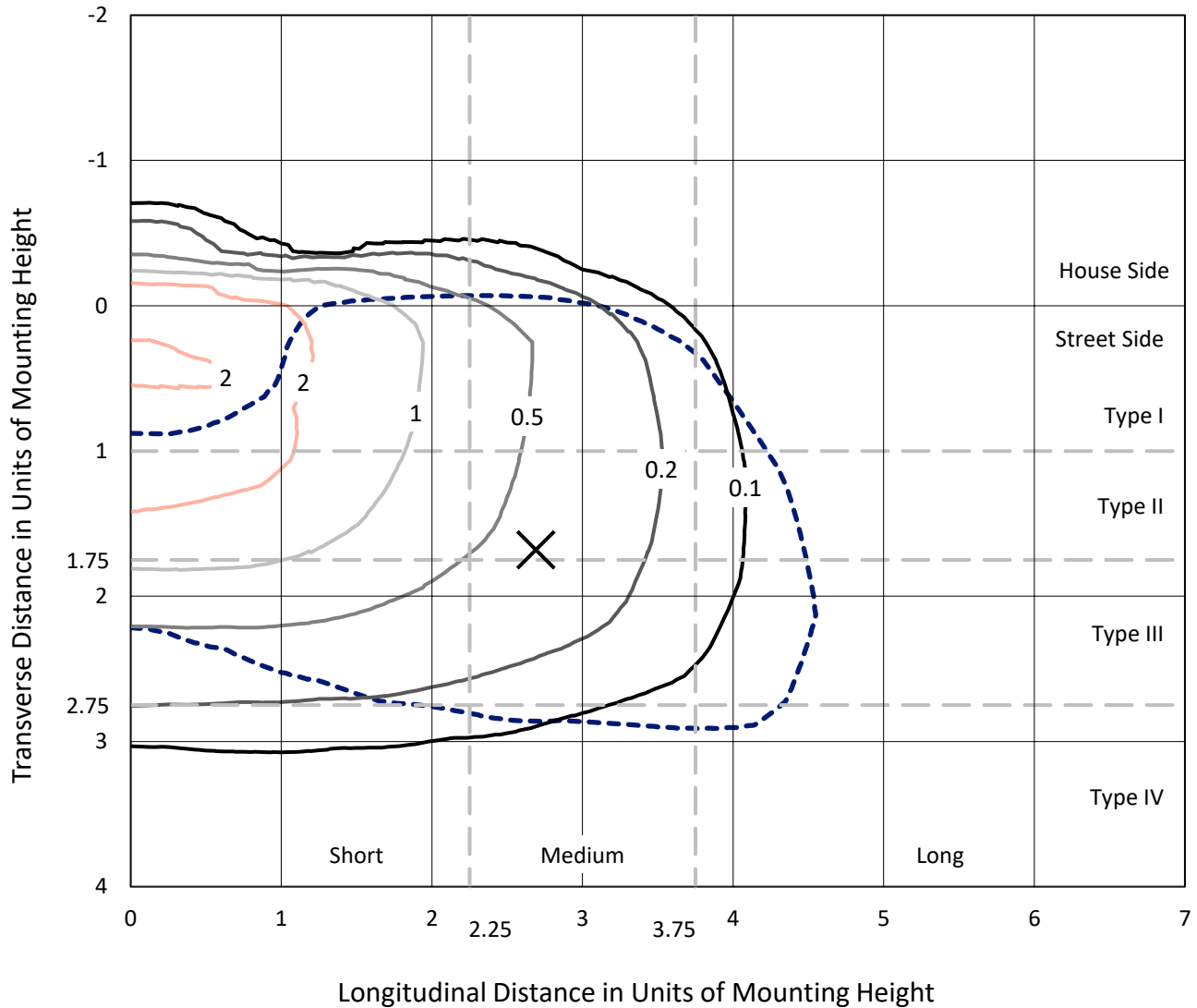
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

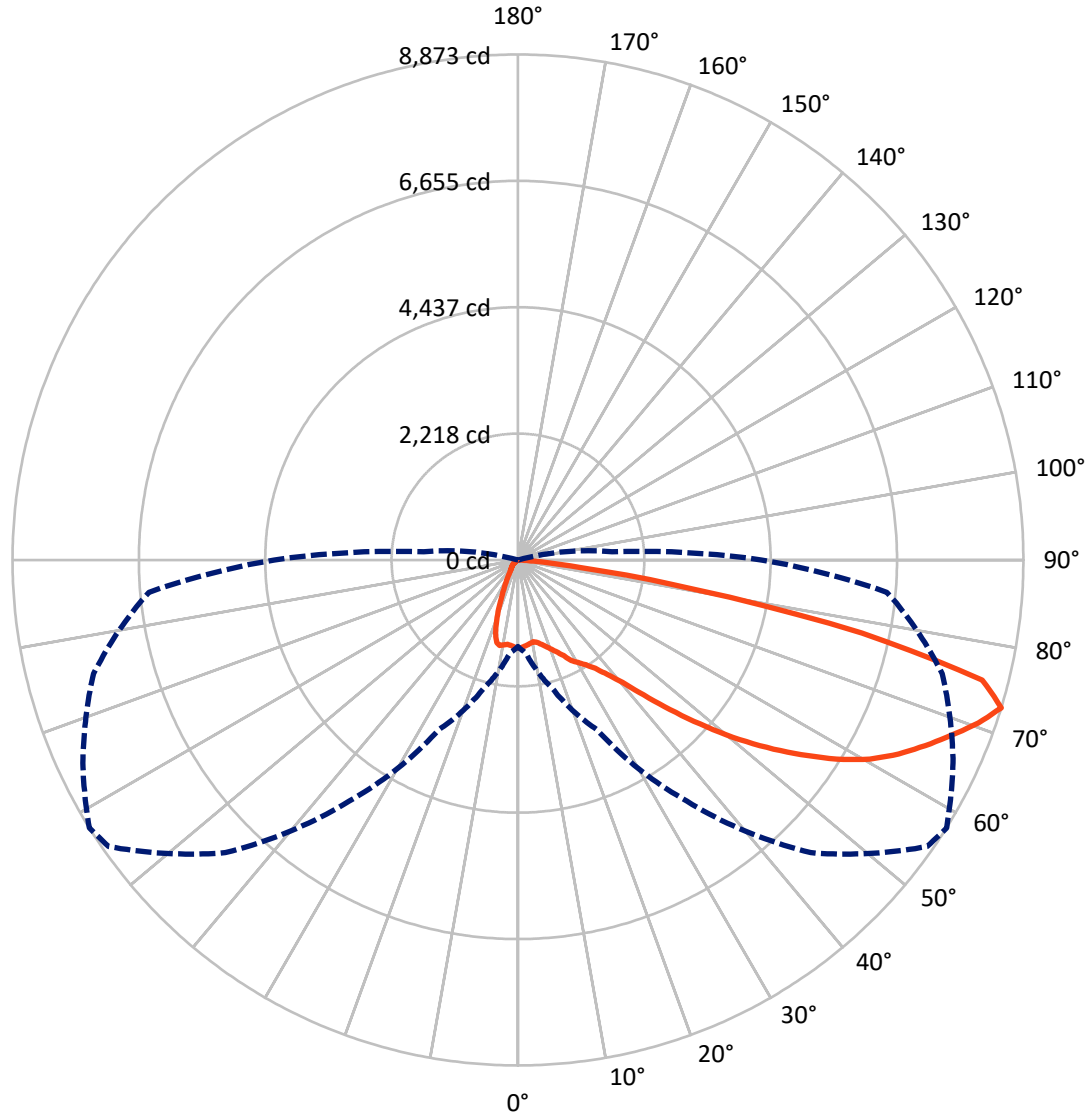
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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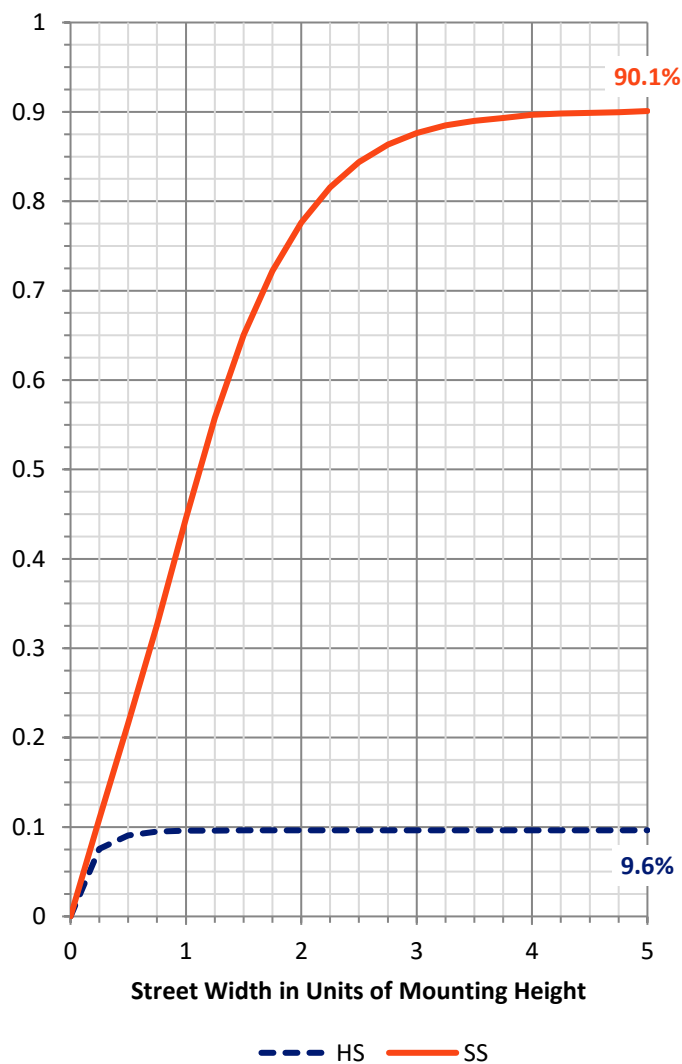
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1254.5	0.0	1254.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	11646.5	0.0	11646.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	12901.0	0.0	12901.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	1.1
10°-20°	370.0	2.9
20°-30°	581.3	4.5
30°-40°	1002.5	7.8
40°-50°	1907.3	14.8
50°-60°	3020.6	23.4
60°-70°	3524.7	27.3
70°-80°	2207.5	17.1
80°-90°	144.9	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°	12901.0	100.0
0°-180°	12901.0	100.0

**Coefficient of Utilization**



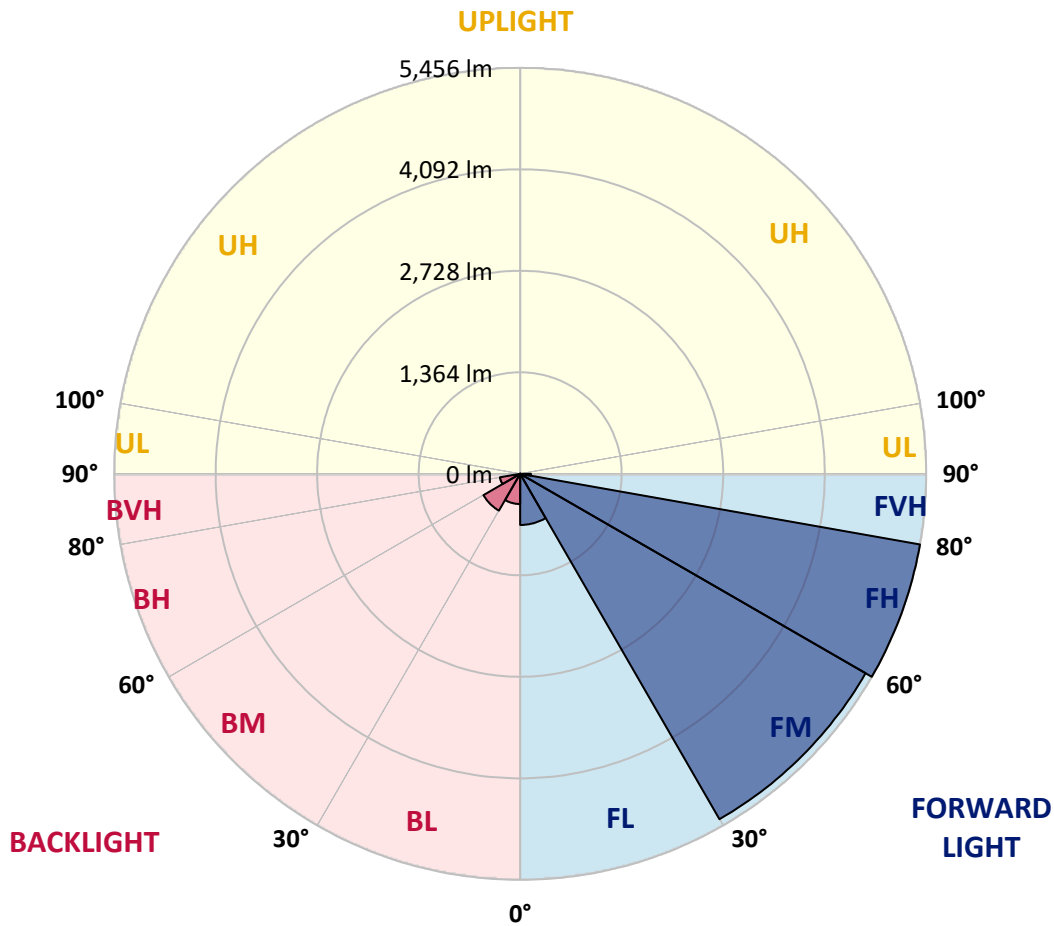
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.2	5.3			
FM (30°-60°)	5359.6	41.5			
FH (60°-80°)	5456.2	42.3			G3/7500
FVH (80°-90°)	143.5	1.1			G2/225
BL (0°-30°)	406.3	3.1	B1/500		
BM (30°-60°)	570.8	4.4	B1/1000		
BH (60°-80°)	276.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0
2.5°	1541.1	1534.2	1531.9	1529.6	1531.9	1534.2	1527.3	1534.2	1529.6	1531.9	1536.5
5°	1485.8	1478.8	1476.5	1478.8	1485.8	1497.3	1501.9	1508.8	1508.8	1515.7	1518.0
7.5°	1423.5	1418.8	1416.5	1421.2	1435.0	1460.4	1474.2	1483.4	1492.7	1506.5	1520.4
10°	1388.9	1386.5	1384.2	1391.2	1405.0	1428.1	1446.5	1460.4	1495.0	1534.2	1559.6
12.5°	1365.8	1365.8	1370.4	1384.2	1402.7	1421.2	1465.0	1483.4	1536.5	1596.5	1631.1
15°	1347.3	1347.3	1354.2	1379.6	1405.0	1448.8	1513.4	1534.2	1596.5	1670.3	1716.5
17.5°	1333.5	1338.1	1342.7	1368.1	1416.5	1490.4	1566.5	1596.5	1672.6	1753.4	1804.1
20°	1335.8	1340.4	1342.7	1368.1	1437.3	1538.8	1635.7	1670.3	1758.0	1843.3	1894.1
22.5°	1349.6	1356.6	1358.9	1393.5	1474.2	1589.6	1714.2	1753.4	1848.0	1937.9	1977.2
25°	1407.3	1411.9	1398.1	1428.1	1527.3	1668.0	1815.7	1857.2	1951.8	2034.8	2067.1
27.5°	1603.4	1608.0	1531.9	1497.3	1568.8	1732.6	1940.2	1997.9	2115.6	2170.9	2175.6
30°	2027.9	2032.5	1882.6	1718.8	1668.0	1788.0	2009.5	2090.2	2242.5	2304.8	2277.1
32.5°	2574.7	2570.1	2364.7	2122.5	1903.3	1884.9	2108.7	2194.0	2360.1	2420.1	2399.3
35°	3123.8	3130.7	2955.4	2590.8	2277.1	2067.1	2235.5	2334.8	2535.5	2620.8	2583.9
37.5°	3499.8	3546.0	3469.8	3075.3	2736.2	2404.0	2440.9	2547.0	2798.5	2913.8	2835.4
40°	4030.4	4018.9	3834.3	3543.7	3243.7	2902.3	2773.1	2823.8	3112.2	3266.8	3144.5
42.5°	4743.3	4720.3	4406.5	4122.7	3788.2	3509.0	3246.0	3236.8	3472.1	3652.1	3474.4
45°	5389.3	5354.7	5140.1	4865.6	4498.8	4178.1	3822.8	3742.1	3905.9	4058.1	3850.5
47.5°	5903.8	5846.1	5693.8	5548.5	5458.5	4960.2	4427.3	4305.0	4388.0	4501.1	4208.1
50°	6512.8	6353.7	6132.2	6044.5	6231.4	5846.1	5008.6	4891.0	4886.4	4951.0	4577.2
52.5°	6789.7	6501.3	6376.7	6450.6	6780.5	6669.7	5636.2	5467.7	5400.8	5407.8	4921.0
55°	6455.2	6422.9	6489.8	6720.5	7151.9	7087.3	6238.3	6030.7	5931.5	5806.9	5250.9
57.5°	6074.5	6173.7	6439.0	6879.7	7622.5	7523.3	6831.2	6595.9	6413.6	6127.6	5617.7
60°	5723.8	5825.3	6263.7	6916.6	7880.9	7943.2	7324.9	7101.1	6831.2	6455.2	6021.4
62.5°	5190.9	5269.3	5885.3	6863.5	7767.9	8187.8	7668.7	7500.3	7248.8	6766.6	6485.2
65°	4591.1	4641.8	5250.9	6439.0	7546.4	8160.1	7952.5	7857.9	7613.3	7091.9	6944.3
67.5°	3933.5	3993.5	4501.1	5675.4	7112.7	8030.9	8220.1	8210.8	7931.7	7451.8	7276.5
70°	3176.8	3181.4	3601.3	4706.4	6356.0	7772.5	8552.3	8573.1	8236.2	7721.8	7290.3
72.5°	1520.4	1644.9	2334.8	3285.3	5165.5	7265.0	8769.2	8873.0	8427.7	7712.5	6503.6
75°	348.4	359.9	680.6	1561.9	3029.2	5576.2	8227.0	8420.8	7961.7	6669.7	4581.8
77.5°	126.9	133.8	191.5	456.8	1165.1	2881.5	5887.6	6171.4	5885.3	4311.9	2166.3
80°	85.4	83.1	99.2	203.0	535.2	816.7	3010.7	3179.1	2902.3	1471.9	519.1
82.5°	43.8	46.1	69.2	113.0	359.9	283.8	1005.9	1093.5	899.8	295.3	96.9
85°	20.8	20.8	39.2	71.5	152.3	99.2	223.8	269.9	242.2	129.2	32.3
87.5°	20.8	20.8	36.9	46.1	78.4	41.5	55.4	69.2	64.6	69.2	11.5
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°	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0	1548.0
2.5°	1536.5	1534.2	1531.9	1536.5	1534.2	1538.8	1538.8	1543.4	1543.4	1538.8	1536.5
5°	1515.7	1511.1	1506.5	1506.5	1504.2	1508.8	1522.7	1534.2	1536.5	1529.6	1527.3
7.5°	1518.0	1518.0	1513.4	1504.2	1488.1	1488.1	1488.1	1501.9	1508.8	1504.2	1501.9
10°	1559.6	1561.9	1550.3	1529.6	1501.9	1476.5	1428.1	1356.6	1289.6	1271.2	1264.3
12.5°	1631.1	1633.4	1610.3	1573.4	1515.7	1365.8	1181.2	1010.5	879.0	842.1	835.2
15°	1716.5	1718.8	1677.2	1617.3	1441.9	1093.5	819.0	625.2	509.9	482.2	479.9
17.5°	1804.1	1799.5	1737.2	1621.9	1222.7	775.2	498.3	399.1	369.1	362.2	364.5
20°	1889.5	1875.6	1790.3	1536.5	941.3	507.6	364.5	341.4	334.5	329.9	329.9
22.5°	1967.9	1940.2	1834.1	1368.1	659.8	364.5	325.3	320.7	311.5	304.5	302.2
25°	2046.4	2007.1	1861.8	1148.9	443.0	318.4	306.8	297.6	286.1	276.8	274.5
27.5°	2141.0	2085.6	1848.0	872.1	332.2	295.3	286.1	272.2	256.1	242.2	237.6
30°	2230.9	2168.6	1769.5	602.1	283.8	272.2	258.4	237.6	216.9	200.7	196.1
32.5°	2344.0	2272.5	1628.8	394.5	246.9	237.6	223.8	198.4	170.7	152.3	147.7
35°	2505.5	2424.7	1448.8	276.8	216.9	200.7	182.3	154.6	124.6	110.7	108.4
37.5°	2731.6	2623.1	1222.7	223.8	191.5	168.4	140.7	113.0	92.3	80.7	78.4
40°	3008.4	2842.3	971.3	198.4	170.7	140.7	106.1	80.7	66.9	57.7	57.7
42.5°	3308.3	3047.6	715.2	182.3	150.0	115.4	78.4	57.7	48.4	43.8	41.5
45°	3617.5	3229.9	482.2	168.4	131.5	87.7	55.4	39.2	32.3	32.3	30.0
47.5°	3938.2	3352.2	311.5	152.3	110.7	64.6	36.9	27.7	23.1	23.1	23.1
50°	4256.5	3416.8	221.5	138.4	90.0	43.8	27.7	20.8	18.5	18.5	18.5
52.5°	4487.2	3375.2	177.6	120.0	69.2	32.3	20.8	16.1	13.8	13.8	13.8
55°	4688.0	3303.7	154.6	103.8	50.8	23.1	16.1	13.8	11.5	11.5	11.5
57.5°	4893.3	3211.4	138.4	87.7	36.9	16.1	11.5	9.2	9.2	9.2	9.2
60°	5080.2	3054.6	120.0	69.2	25.4	11.5	9.2	6.9	6.9	6.9	6.9
62.5°	5262.4	2920.7	103.8	53.1	18.5	9.2	4.6	4.6	2.3	2.3	2.3
65°	5366.2	2740.8	83.1	34.6	11.5	6.9	2.3	2.3	0.0	0.0	0.0
67.5°	5333.9	2526.2	57.7	20.8	6.9	4.6	2.3	0.0	0.0	0.0	0.0
70°	5110.2	2237.9	34.6	11.5	6.9	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	4279.6	1656.5	20.8	9.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0
75°	2858.5	761.3	11.5	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	1308.1	228.4	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	263.0	60.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.4	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	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)