

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: P399351

Luminaire Tested: **ARCH-L-PA3-130-730-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399351  
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-PA3-130-730-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA 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: 13869 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

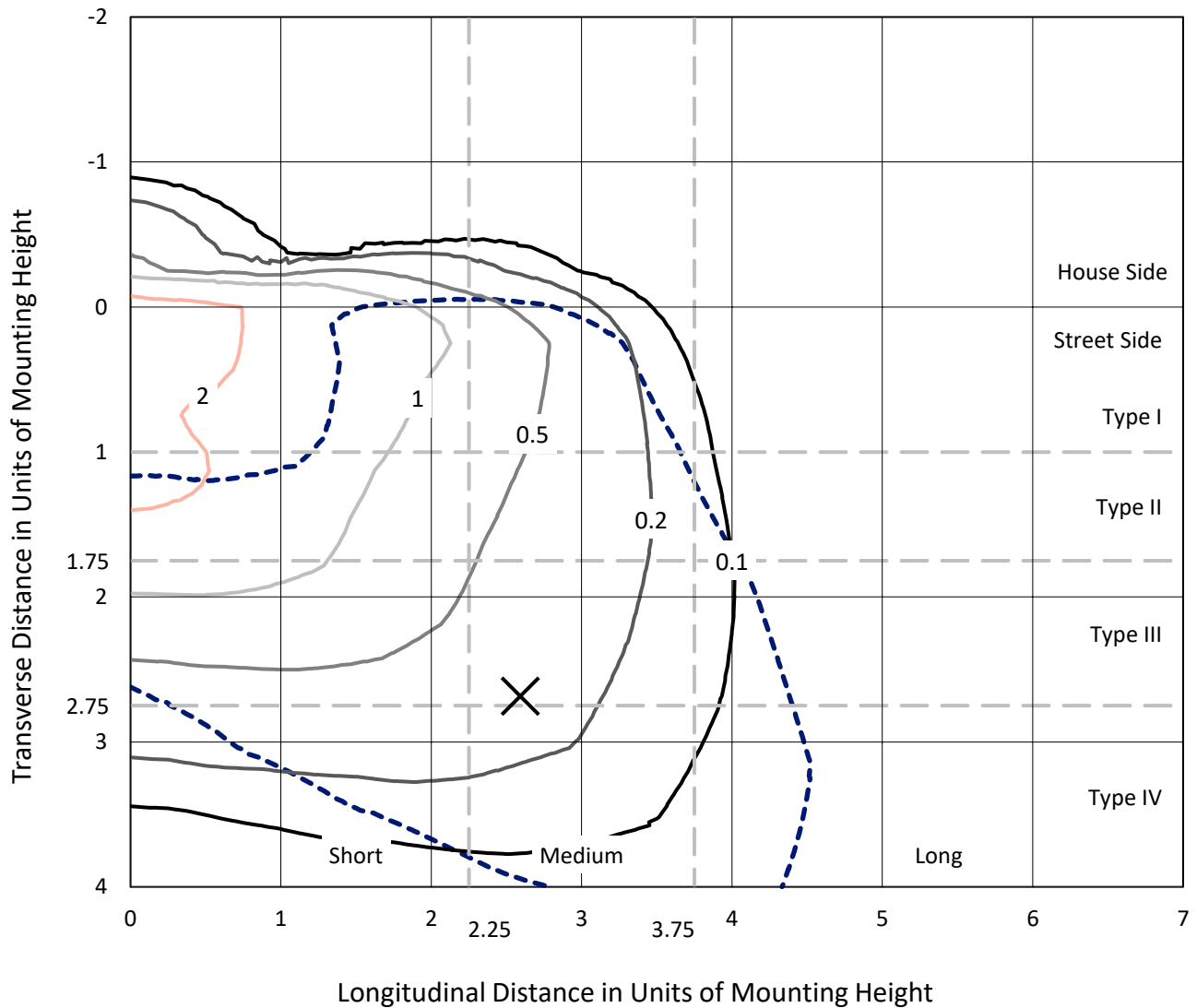
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399351  
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

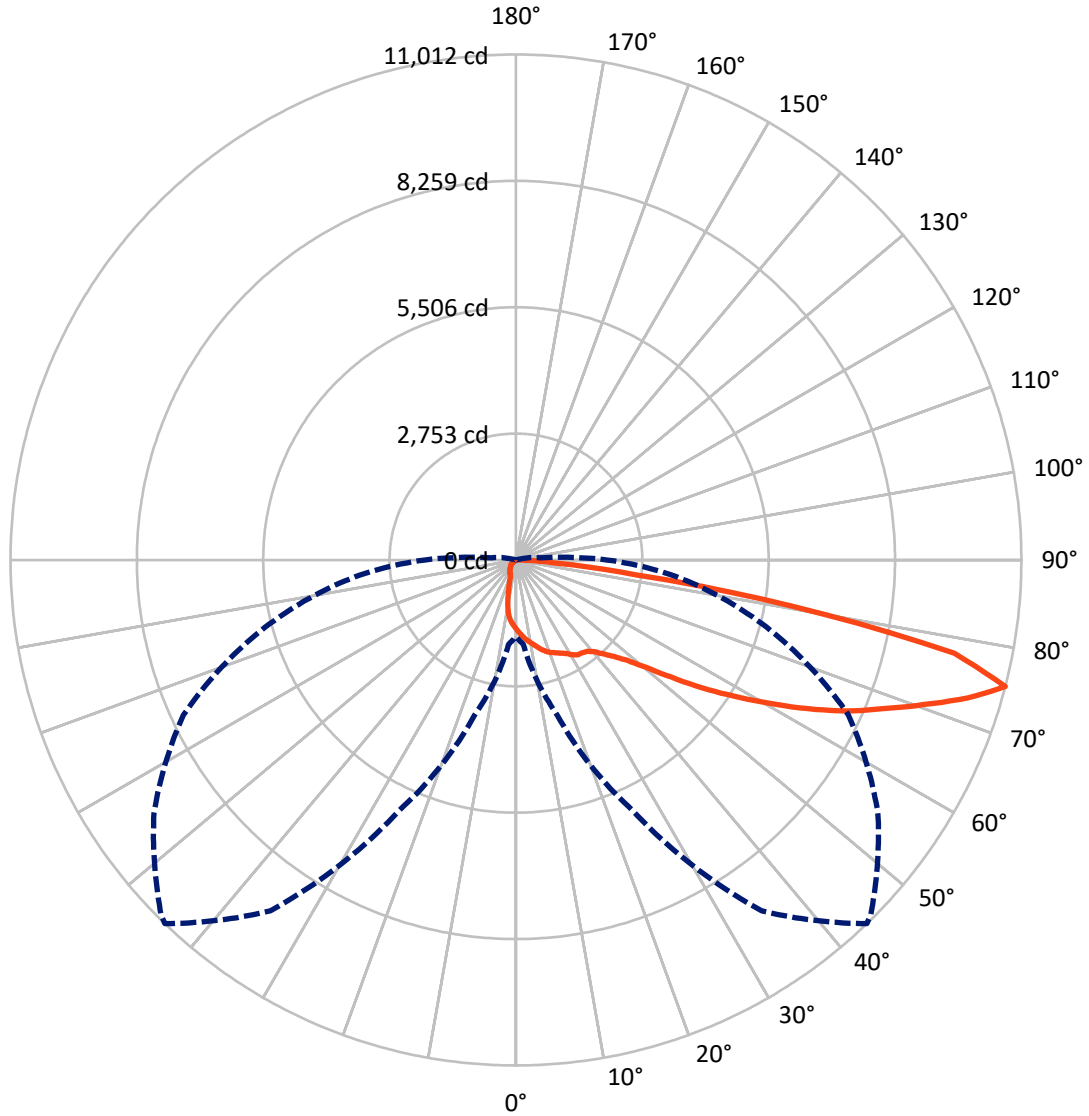
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P399351  
CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P399351  
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W-HSS

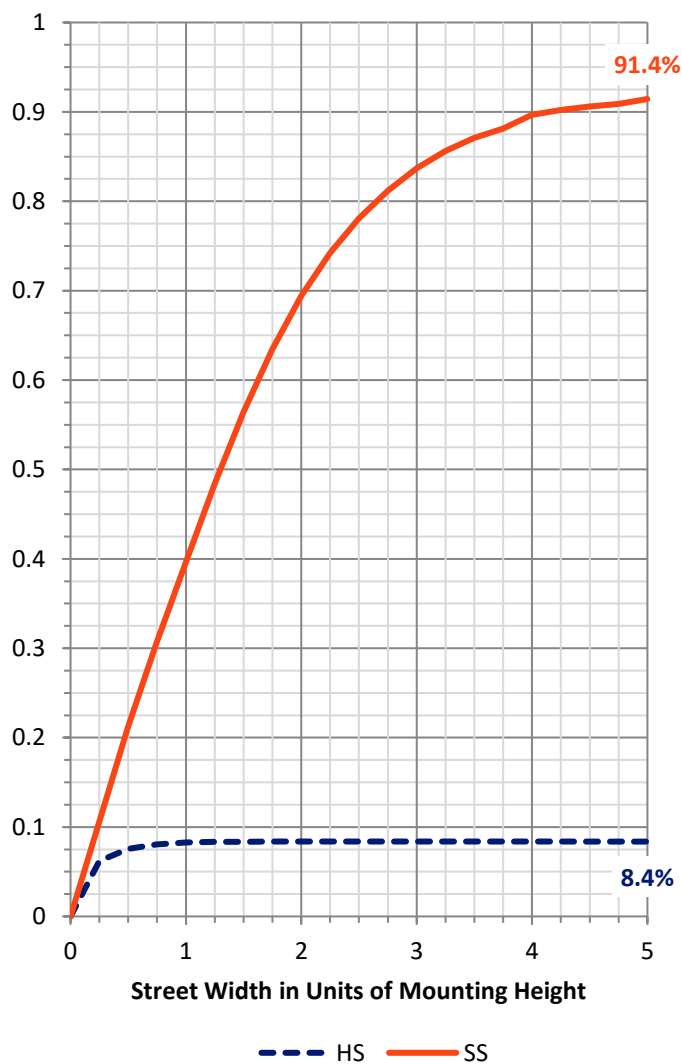
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1169.6	0.0	1169.6
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	12699.4	0.0	12699.4
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	13869.0	0.0	13869.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.4	1.0
10°-20°	398.9	2.9
20°-30°	658.3	4.7
30°-40°	955.5	6.9
40°-50°	1553.2	11.2
50°-60°	2738.2	19.7
60°-70°	3935.3	28.4
70°-80°	3151.3	22.7
80°-90°	335.8	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°	13869.0	100.0
0°-180°	13869.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P399351

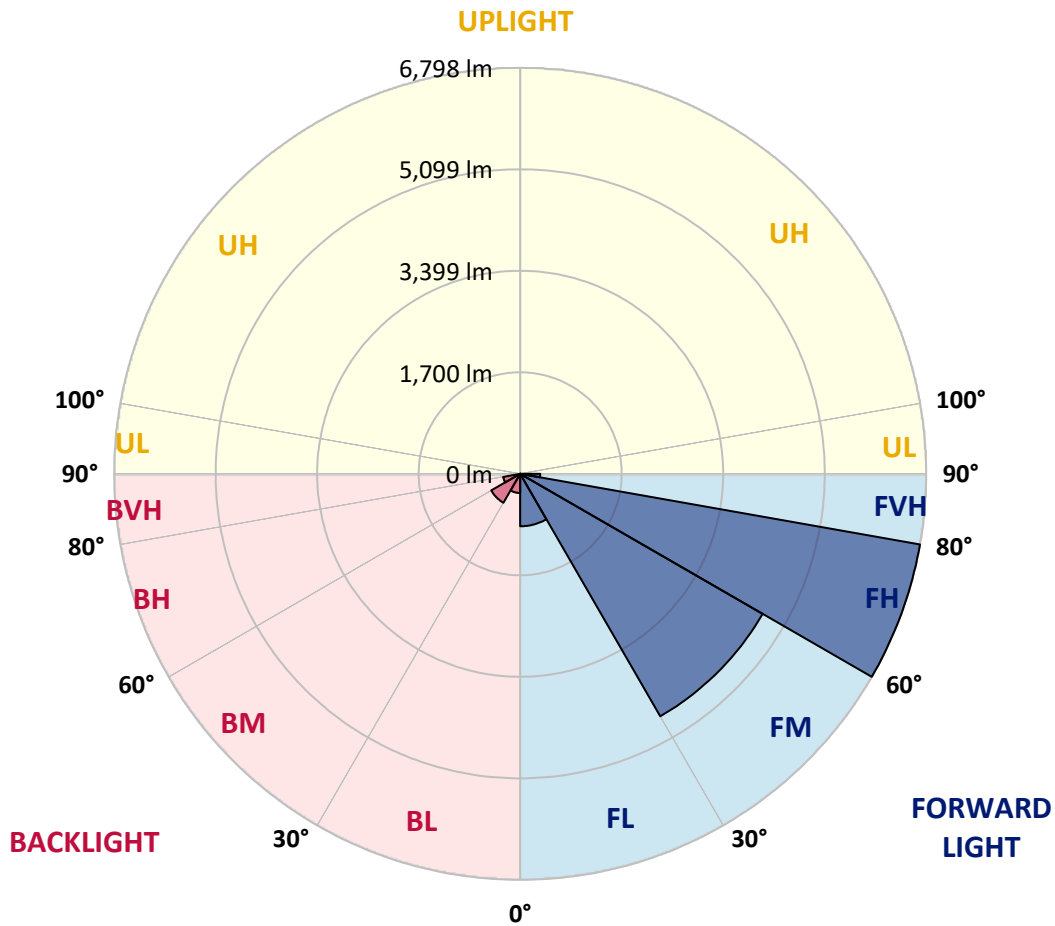
CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.3	6.3			
FM (30°-60°)	4687.8	33.8			
FH (60°-80°)	6798.3	49.0			G3/7500
FVH (80°-90°)	334.9	2.4			G3/500
BL (0°-30°)	321.3	2.3	B1/500		
BM (30°-60°)	559.1	4.0	B1/1000		
BH (60°-80°)	288.3	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	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





REPORT NUMBER: P399351

CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6
2.5°	1645.2	1642.6	1635.0	1622.2	1609.4	1596.6	1594.0	1573.6	1550.5	1532.6	1517.3
5°	1791.0	1788.5	1775.7	1747.5	1719.4	1686.1	1683.6	1635.0	1591.5	1542.9	1501.9
7.5°	1942.0	1936.9	1913.9	1870.4	1821.7	1770.6	1765.5	1693.8	1629.8	1565.9	1507.0
10°	2059.7	2054.6	2021.3	1970.1	1903.6	1839.7	1832.0	1757.8	1693.8	1611.9	1532.6
12.5°	2174.8	2164.6	2121.1	2064.8	1982.9	1921.5	1913.9	1837.1	1760.3	1675.9	1578.7
15°	2282.3	2269.5	2228.6	2156.9	2069.9	2011.1	2006.0	1924.1	1844.8	1747.5	1640.1
17.5°	2356.5	2351.4	2302.8	2223.4	2139.0	2090.4	2085.3	2000.8	1921.5	1819.2	1704.0
20°	2394.9	2394.9	2348.8	2261.8	2185.1	2151.8	2144.1	2064.8	1988.1	1890.8	1770.6
22.5°	2402.5	2410.2	2374.4	2279.7	2223.4	2195.3	2190.2	2121.1	2046.9	1957.3	1844.8
25°	2417.9	2417.9	2400.0	2297.6	2256.7	2249.0	2246.5	2185.1	2118.5	2029.0	1919.0
27.5°	2435.8	2435.8	2423.0	2323.2	2307.9	2305.3	2302.8	2274.6	2220.9	2116.0	2006.0
30°	2481.9	2484.4	2474.2	2374.4	2364.2	2392.3	2397.4	2382.1	2315.6	2185.1	2095.5
32.5°	2597.0	2574.0	2545.8	2410.2	2428.1	2464.0	2466.5	2435.8	2364.2	2259.3	2203.0
35°	2886.1	2750.5	2622.6	2440.9	2448.6	2484.4	2489.5	2487.0	2443.5	2353.9	2325.8
37.5°	3154.8	2962.9	2781.2	2512.6	2487.0	2525.4	2535.6	2579.1	2545.8	2484.4	2492.1
40°	3310.9	3236.7	3108.7	2709.6	2563.7	2622.6	2632.8	2699.3	2686.6	2661.0	2709.6
42.5°	3791.9	3797.0	3658.8	3003.8	2704.5	2799.1	2811.9	2865.7	2883.6	2896.4	3014.1
45°	4349.7	4367.6	4334.3	3533.5	2970.6	3001.3	3019.2	3090.8	3157.3	3239.2	3454.1
47.5°	5020.0	5004.7	4881.9	4180.8	3433.7	3262.2	3275.0	3413.2	3528.3	3707.4	4014.5
50°	5613.6	5652.0	5419.2	4784.6	4086.1	3674.2	3661.4	3797.0	4004.2	4255.0	4641.3
52.5°	6212.3	6156.0	5841.3	5383.3	4858.8	4234.5	4196.1	4270.3	4562.0	4858.8	5255.4
55°	6371.0	6376.1	6268.6	6038.4	5503.6	4915.1	4851.2	4846.0	5209.4	5411.5	5900.2
57.5°	6683.1	6695.9	6721.5	6767.6	6514.3	5595.7	5529.2	5457.5	5810.6	5928.3	6547.5
60°	7000.4	7015.7	7171.8	7420.0	7251.1	6330.0	6258.4	6089.5	6286.5	6445.2	7228.1
62.5°	6959.5	7066.9	7519.8	8013.6	7993.1	7136.0	7046.5	6639.6	6765.0	6903.2	7852.4
65°	6284.0	6399.1	7417.5	8177.4	8737.7	7931.7	7785.9	7207.6	7215.3	7381.6	8453.7
67.5°	5680.1	5805.5	6777.8	8108.3	9229.0	8645.6	8494.6	7778.2	7658.0	7934.3	8776.1
70°	5332.2	5457.5	6268.6	7893.4	9367.1	9436.2	9305.7	8430.7	8185.0	8438.3	8415.3
72.5°	4173.1	4370.1	5618.7	7484.0	9515.5	10283.1	10180.8	9257.1	8632.8	7911.3	6406.8
75°	1663.1	1844.8	3507.9	6023.0	9328.7	11012.3	10933.0	9628.1	7990.6	5649.4	3280.2
77.5°	501.5	537.3	974.8	2978.2	6839.2	9763.7	9738.1	8095.5	5654.6	2622.6	895.5
80°	166.3	184.2	299.4	821.3	3121.5	6099.8	6214.9	5158.2	2568.9	601.3	181.7
82.5°	69.1	76.8	151.0	330.1	1105.3	2627.7	2589.3	2310.4	895.5	373.6	66.5
85°	17.9	23.0	69.1	189.3	404.3	905.8	951.8	775.3	506.6	309.6	20.5
87.5°	0.0	0.0	33.3	76.8	181.7	273.8	286.6	235.4	286.6	232.8	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399351  
 CATALOG NUMBER: ARCH-L-PA3-130-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6	1509.6
2.5°	1504.5	1491.7	1468.7	1453.3	1432.8	1427.7	1417.5	1404.7	1402.1	1389.3	1391.9
5°	1478.9	1458.4	1417.5	1389.3	1356.1	1345.8	1327.9	1315.1	1304.9	1287.0	1289.5
7.5°	1473.8	1443.1	1386.8	1333.0	1279.3	1240.9	1187.2	1143.7	1107.9	1069.5	1077.2
10°	1491.7	1453.3	1374.0	1299.8	1202.6	1079.7	939.0	846.9	800.8	754.8	759.9
12.5°	1527.5	1481.4	1379.1	1266.5	1069.5	859.7	665.2	539.9	506.6	486.1	488.7
15°	1581.2	1524.9	1394.4	1202.6	890.4	621.7	442.6	388.9	401.7	409.4	409.4
17.5°	1637.5	1573.6	1407.2	1087.4	688.3	435.0	360.8	355.6	373.6	391.5	391.5
20°	1706.6	1624.7	1409.8	941.6	496.4	353.1	340.3	340.3	353.1	373.6	373.6
22.5°	1773.1	1681.0	1386.8	775.3	378.7	327.5	327.5	327.5	335.2	355.6	358.2
25°	1852.4	1750.1	1338.2	598.7	324.9	312.2	312.2	314.7	319.8	337.7	340.3
27.5°	1936.9	1821.7	1256.3	437.5	296.8	294.2	296.8	299.4	301.9	319.8	324.9
30°	2034.1	1901.1	1151.4	327.5	271.2	271.2	278.9	284.0	284.0	299.4	304.5
32.5°	2146.7	2006.0	1026.0	271.2	245.6	243.1	255.9	263.5	263.5	276.3	281.4
35°	2287.4	2113.4	875.0	240.5	225.2	220.0	225.2	238.0	243.1	253.3	255.9
37.5°	2474.2	2241.4	713.9	222.6	209.8	199.6	199.6	202.1	212.4	222.6	225.2
40°	2712.1	2382.1	555.2	209.8	194.5	184.2	176.5	174.0	171.4	179.1	184.2
42.5°	3011.5	2540.7	414.5	197.0	181.7	166.3	156.1	145.8	133.0	130.5	133.0
45°	3395.3	2735.2	307.0	186.8	174.0	151.0	133.0	115.1	92.1	84.4	87.0
47.5°	3848.2	2937.3	240.5	176.5	168.9	133.0	110.0	79.3	56.3	51.2	53.7
50°	4329.2	3131.8	204.7	163.8	158.6	115.1	79.3	48.6	33.3	33.3	35.8
52.5°	4738.6	3241.8	186.8	153.5	143.3	94.7	51.2	28.1	20.5	20.5	23.0
55°	5135.2	3300.6	174.0	143.3	122.8	66.5	28.1	17.9	12.8	12.8	12.8
57.5°	5544.5	3326.2	158.6	130.5	97.2	40.9	15.4	10.2	7.7	7.7	7.7
60°	5907.9	3277.6	135.6	107.5	64.0	20.5	7.7	7.7	5.1	2.6	2.6
62.5°	6212.3	3185.5	94.7	76.8	38.4	10.2	5.1	2.6	0.0	0.0	0.0
65°	6399.1	3037.1	61.4	51.2	23.0	7.7	2.6	0.0	0.0	0.0	0.0
67.5°	6345.4	2758.2	38.4	33.3	10.2	5.1	2.6	0.0	0.0	0.0	0.0
70°	5726.2	2261.8	28.1	20.5	7.7	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	4127.1	1530.1	20.5	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1985.5	545.0	12.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	486.1	120.3	7.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.5	23.0	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.6	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)