

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: P399783

Luminaire Tested: **ARCH-L-PA3-190-730-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399783  
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-PA3-190-730-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 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: 18170 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G4

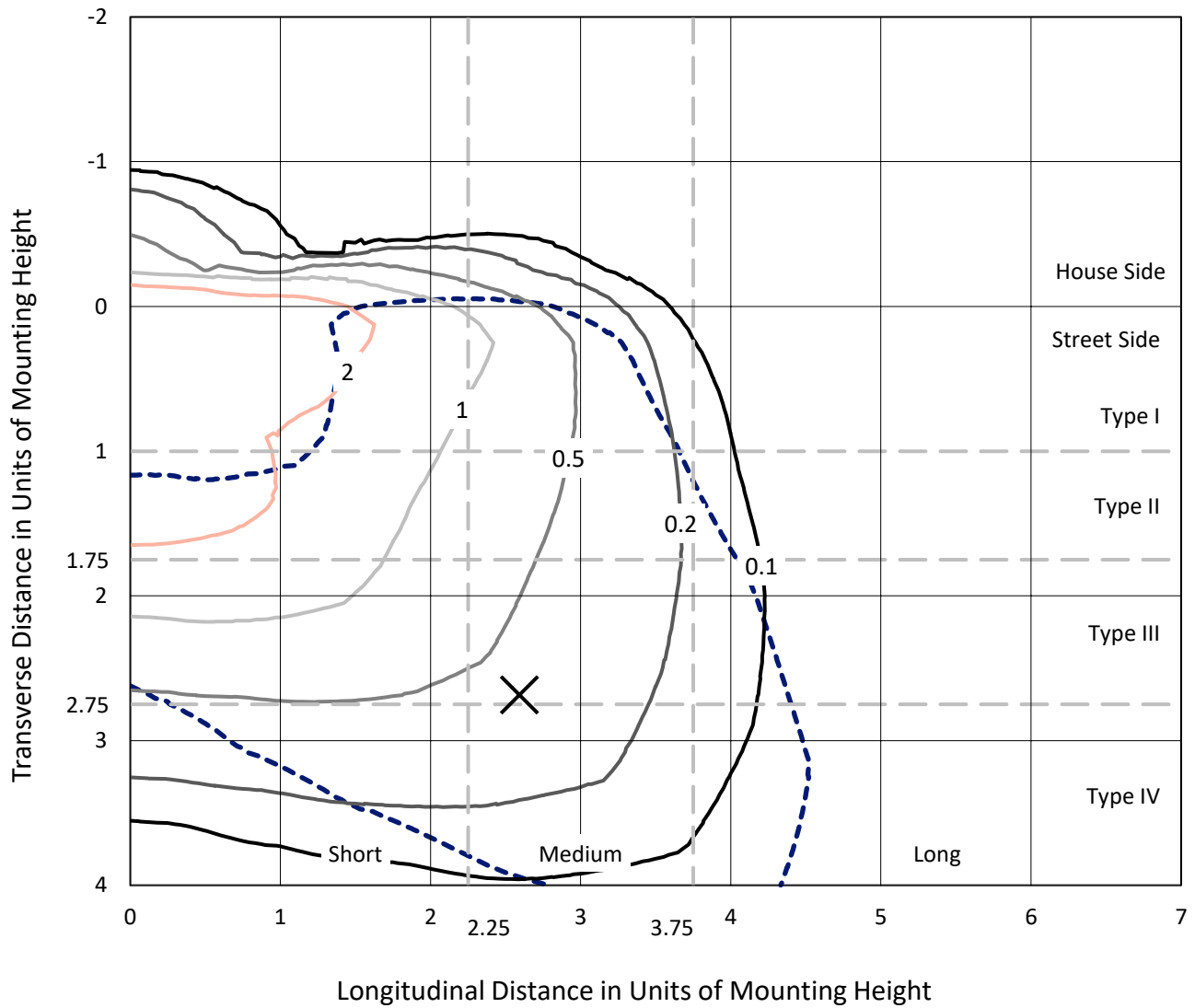
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P399783  
 CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

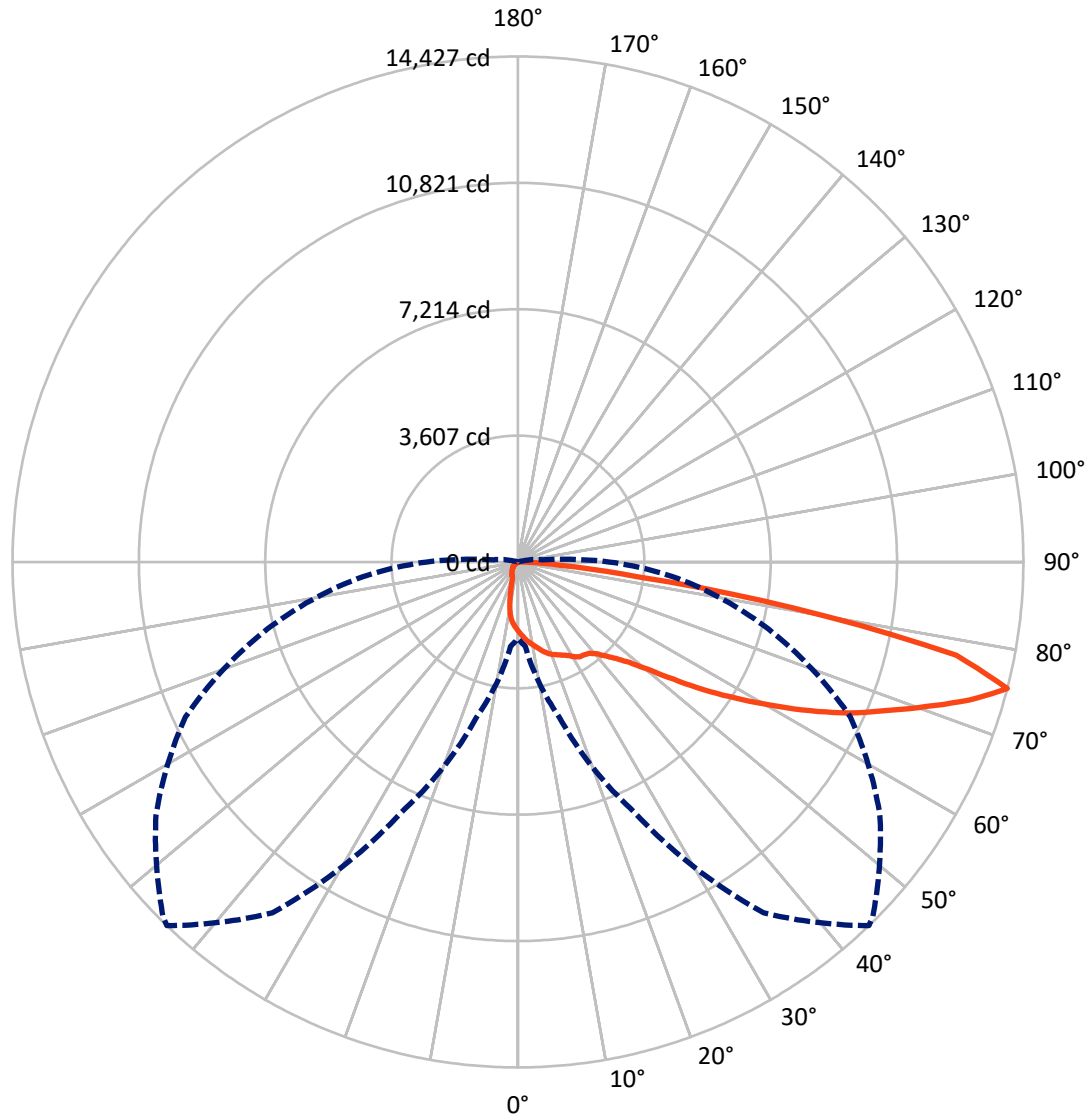
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P399783  
CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P399783

CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W-HSS

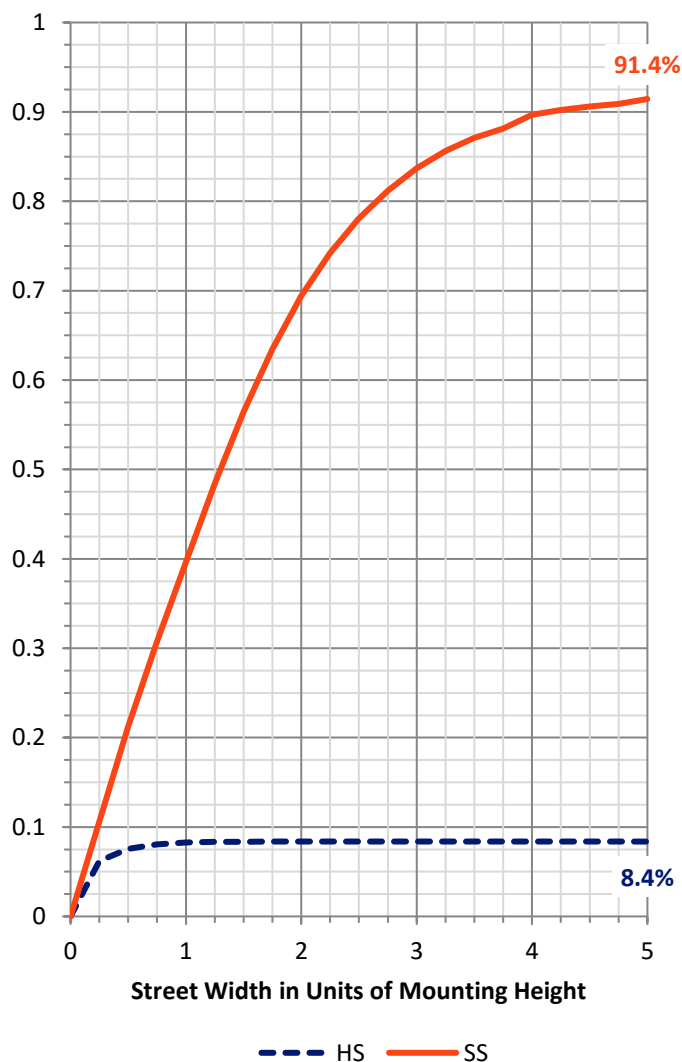
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1532.3	0.0	1532.3
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	16637.7	0.0	16637.7
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	18170.0	0.0	18170.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	1.0
10°-20°	522.6	2.9
20°-30°	862.5	4.7
30°-40°	1251.8	6.9
40°-50°	2034.9	11.2
50°-60°	3587.3	19.7
60°-70°	5155.8	28.4
70°-80°	4128.6	22.7
80°-90°	439.9	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°	18170.0	100.0
0°-180°	18170.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P399783

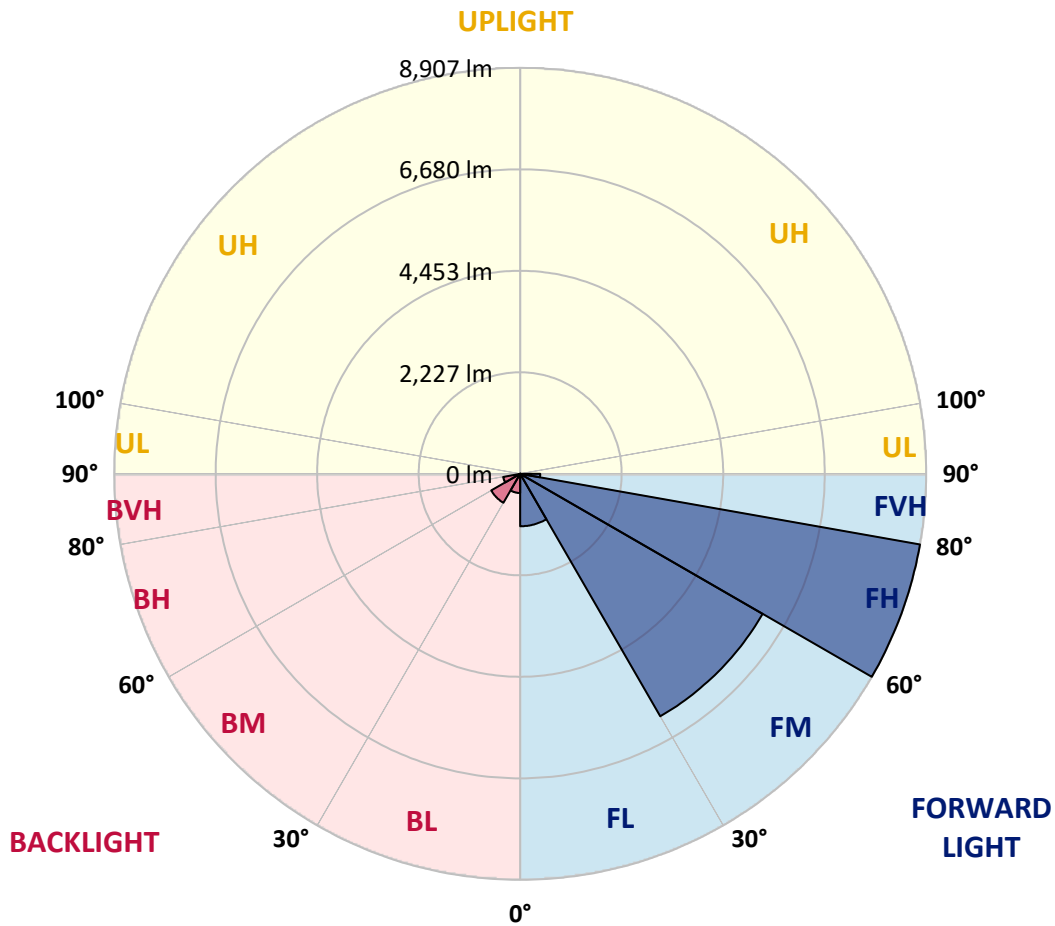
CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.7	6.3			
FM (30°-60°)	6141.6	33.8			
FH (60°-80°)	8906.6	49.0			G4/12000
FVH (80°-90°)	438.8	2.4			G3/500
BL (0°-30°)	421.0	2.3	B1/500		
BM (30°-60°)	732.5	4.0	B1/1000		
BH (60°-80°)	377.8	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	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-G4**

Type IV Medium





REPORT NUMBER: P399783

CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7
2.5°	2155.4	2152.0	2142.0	2125.2	2108.5	2091.7	2088.4	2061.5	2031.4	2007.9	1987.8
5°	2346.5	2343.1	2326.4	2289.5	2252.6	2209.0	2205.7	2142.0	2085.0	2021.3	1967.7
7.5°	2544.2	2537.5	2507.4	2450.4	2386.7	2319.6	2312.9	2219.1	2135.3	2051.5	1974.4
10°	2698.4	2691.7	2648.2	2581.1	2494.0	2410.2	2400.1	2302.9	2219.1	2111.8	2007.9
12.5°	2849.3	2835.9	2778.9	2705.1	2597.9	2517.4	2507.4	2406.8	2306.2	2195.6	2068.2
15°	2990.1	2973.3	2919.7	2825.8	2711.8	2634.7	2628.0	2520.8	2416.9	2289.5	2148.7
17.5°	3087.3	3080.6	3016.9	2913.0	2802.4	2738.7	2732.0	2621.3	2517.4	2383.3	2232.5
20°	3137.6	3137.6	3077.2	2963.3	2862.7	2819.1	2809.1	2705.1	2604.6	2477.2	2319.6
22.5°	3147.6	3157.7	3110.7	2986.7	2913.0	2876.1	2869.4	2778.9	2681.7	2564.4	2416.9
25°	3167.7	3167.7	3144.3	3010.2	2956.5	2946.5	2943.1	2862.7	2775.5	2658.2	2514.1
27.5°	3191.2	3191.2	3174.4	3043.7	3023.6	3020.2	3016.9	2980.0	2909.6	2772.2	2628.0
30°	3251.5	3254.9	3241.5	3110.7	3097.3	3134.2	3140.9	3120.8	3033.6	2862.7	2745.4
32.5°	3402.4	3372.2	3335.3	3157.7	3181.1	3228.1	3231.4	3191.2	3097.3	2959.9	2886.2
35°	3781.2	3603.5	3435.9	3197.9	3208.0	3254.9	3261.6	3258.2	3201.3	3083.9	3047.1
37.5°	4133.1	3881.7	3643.7	3291.8	3258.2	3308.5	3321.9	3378.9	3335.3	3254.9	3264.9
40°	4337.6	4240.4	4072.8	3549.9	3358.8	3435.9	3449.3	3536.5	3519.7	3486.2	3549.9
42.5°	4967.8	4974.5	4793.5	3935.4	3543.2	3667.2	3684.0	3754.3	3777.8	3794.6	3948.8
45°	5698.6	5722.0	5678.4	4629.2	3891.8	3932.0	3955.5	4049.3	4136.5	4243.8	4525.3
47.5°	6576.8	6556.7	6395.8	5477.3	4498.5	4273.9	4290.7	4471.7	4622.5	4857.2	5259.4
50°	7354.5	7404.8	7099.7	6268.4	5353.3	4813.6	4796.8	4974.5	5246.0	5574.5	6080.7
52.5°	8138.9	8065.1	7652.8	7052.8	6365.6	5547.7	5497.4	5594.6	5976.8	6365.6	6885.2
55°	8346.7	8353.4	8212.6	7910.9	7210.4	6439.4	6355.6	6348.9	6824.9	7089.7	7729.9
57.5°	8755.7	8772.4	8806.0	8866.3	8534.4	7331.0	7243.9	7150.0	7612.6	7766.8	8578.0
60°	9171.3	9191.4	9395.9	9721.1	9499.8	8293.1	8199.2	7978.0	8236.1	8443.9	9469.7
62.5°	9117.7	9258.5	9851.8	10498.8	10471.9	9349.0	9231.7	8698.7	8862.9	9044.0	10287.6
65°	8232.7	8383.6	9717.7	10713.3	11447.4	10391.5	10200.4	9442.8	9452.9	9670.8	11075.3
67.5°	7441.6	7605.9	8879.7	10622.8	12091.0	11326.7	11129.0	10190.4	10032.8	10394.8	11497.7
70°	6985.8	7150.0	8212.6	10341.2	12272.0	12362.5	12191.6	11045.2	10723.3	11055.2	11025.0
72.5°	5467.3	5725.4	7361.2	9804.9	12466.4	13472.1	13338.0	12127.9	11310.0	10364.7	8393.6
75°	2178.9	2416.9	4595.7	7890.8	12221.7	14427.4	14323.5	12613.9	10468.6	7401.4	4297.4
77.5°	657.0	703.9	1277.1	3901.8	8960.1	12791.6	12758.1	10606.0	7408.1	3435.9	1173.2
80°	217.9	241.4	392.2	1076.0	4089.6	7991.4	8142.2	6757.8	3365.5	787.7	238.0
82.5°	90.5	100.6	197.8	432.4	1448.1	3442.6	3392.3	3026.9	1173.2	489.4	87.2
85°	23.5	30.2	90.5	248.1	529.6	1186.6	1247.0	1015.7	663.7	405.6	26.8
87.5°	0.0	0.0	43.6	100.6	238.0	358.7	375.4	308.4	375.4	305.0	13.4
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: P399783

CATALOG NUMBER: ARCH-L-PA3-190-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7	1977.7
2.5°	1971.0	1954.3	1924.1	1904.0	1877.2	1870.5	1857.1	1840.3	1836.9	1820.2	1823.5
5°	1937.5	1910.7	1857.1	1820.2	1776.6	1763.2	1739.7	1723.0	1709.6	1686.1	1689.5
7.5°	1930.8	1890.6	1816.8	1746.4	1676.0	1625.8	1555.4	1498.4	1451.5	1401.2	1411.2
10°	1954.3	1904.0	1800.1	1702.9	1575.5	1414.6	1230.2	1109.5	1049.2	988.9	995.6
12.5°	2001.2	1940.9	1806.8	1659.3	1401.2	1126.3	871.5	707.3	663.7	636.9	640.3
15°	2071.6	1997.8	1826.9	1575.5	1166.5	814.6	579.9	509.5	526.3	536.3	536.3
17.5°	2145.3	2061.5	1843.7	1424.6	901.7	569.9	472.6	465.9	489.4	512.9	512.9
20°	2235.8	2128.6	1847.0	1233.6	650.3	462.6	445.8	445.8	462.6	489.4	489.4
22.5°	2323.0	2202.3	1816.8	1015.7	496.1	429.1	429.1	429.1	439.1	465.9	469.3
25°	2426.9	2292.8	1753.1	784.4	425.7	409.0	409.0	412.3	419.0	442.5	445.8
27.5°	2537.5	2386.7	1645.9	573.2	388.8	385.5	388.8	392.2	395.5	419.0	425.7
30°	2664.9	2490.6	1508.4	429.1	355.3	355.3	365.4	372.1	372.1	392.2	398.9
32.5°	2812.4	2628.0	1344.2	355.3	321.8	318.4	335.2	345.3	345.3	362.0	368.7
35°	2996.8	2768.8	1146.4	315.1	295.0	288.3	295.0	311.7	318.4	331.9	335.2
37.5°	3241.5	2936.4	935.2	291.6	274.9	261.5	261.5	264.8	278.2	291.6	295.0
40°	3553.2	3120.8	727.4	274.9	254.8	241.4	231.3	227.9	224.6	234.6	241.4
42.5°	3945.4	3328.6	543.0	258.1	238.0	217.9	204.5	191.1	174.3	171.0	174.3
45°	4448.2	3583.4	402.3	244.7	227.9	197.8	174.3	150.8	120.7	110.6	114.0
47.5°	5041.5	3848.2	315.1	231.3	221.2	174.3	144.1	103.9	73.7	67.0	70.4
50°	5671.7	4103.0	268.2	214.5	207.8	150.8	103.9	63.7	43.6	43.6	46.9
52.5°	6208.1	4247.1	244.7	201.1	187.7	124.0	67.0	36.9	26.8	26.8	30.2
55°	6727.7	4324.2	227.9	187.7	160.9	87.2	36.9	23.5	16.8	16.8	16.8
57.5°	7264.0	4357.7	207.8	171.0	127.4	53.6	20.1	13.4	10.1	10.1	10.1
60°	7740.0	4294.0	177.7	140.8	83.8	26.8	10.1	10.1	6.7	3.4	3.4
62.5°	8138.9	4173.4	124.0	100.6	50.3	13.4	6.7	3.4	0.0	0.0	0.0
65°	8383.6	3978.9	80.5	67.0	30.2	10.1	3.4	0.0	0.0	0.0	0.0
67.5°	8313.2	3613.6	50.3	43.6	13.4	6.7	3.4	0.0	0.0	0.0	0.0
70°	7502.0	2963.3	36.9	26.8	10.1	3.4	0.0	0.0	0.0	0.0	0.0
72.5°	5406.9	2004.6	26.8	16.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	2601.2	714.0	16.8	13.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	636.9	157.5	10.1	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.8	30.2	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.9	13.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	3.4	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)