

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: P399855

Luminaire Tested: **ARCH-L-PA3-200-730-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399855  
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-PA3-200-730-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 860mA 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: 19050 lumens  
Efficiency: N/A  
Efficacy: 94.8 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

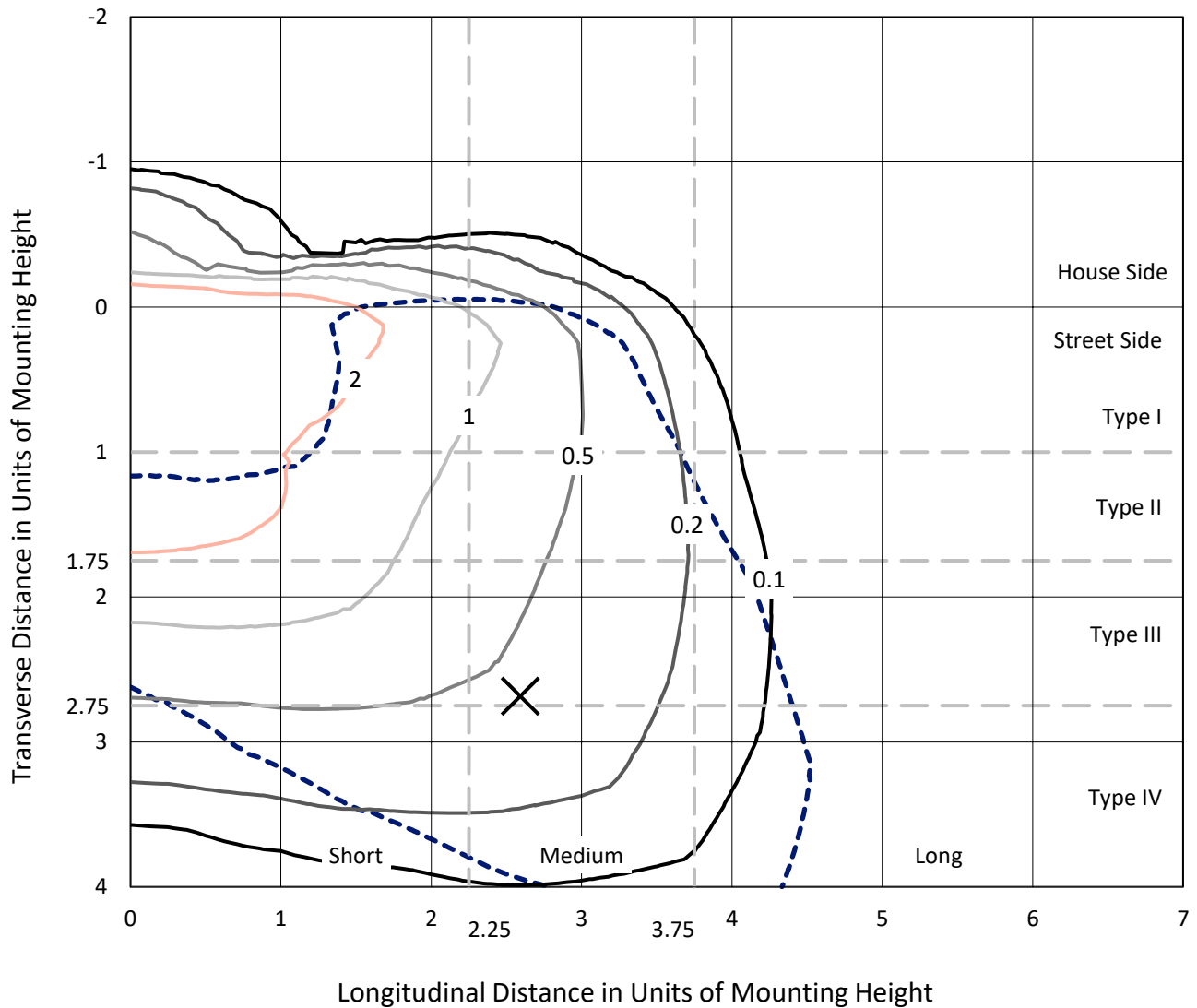
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

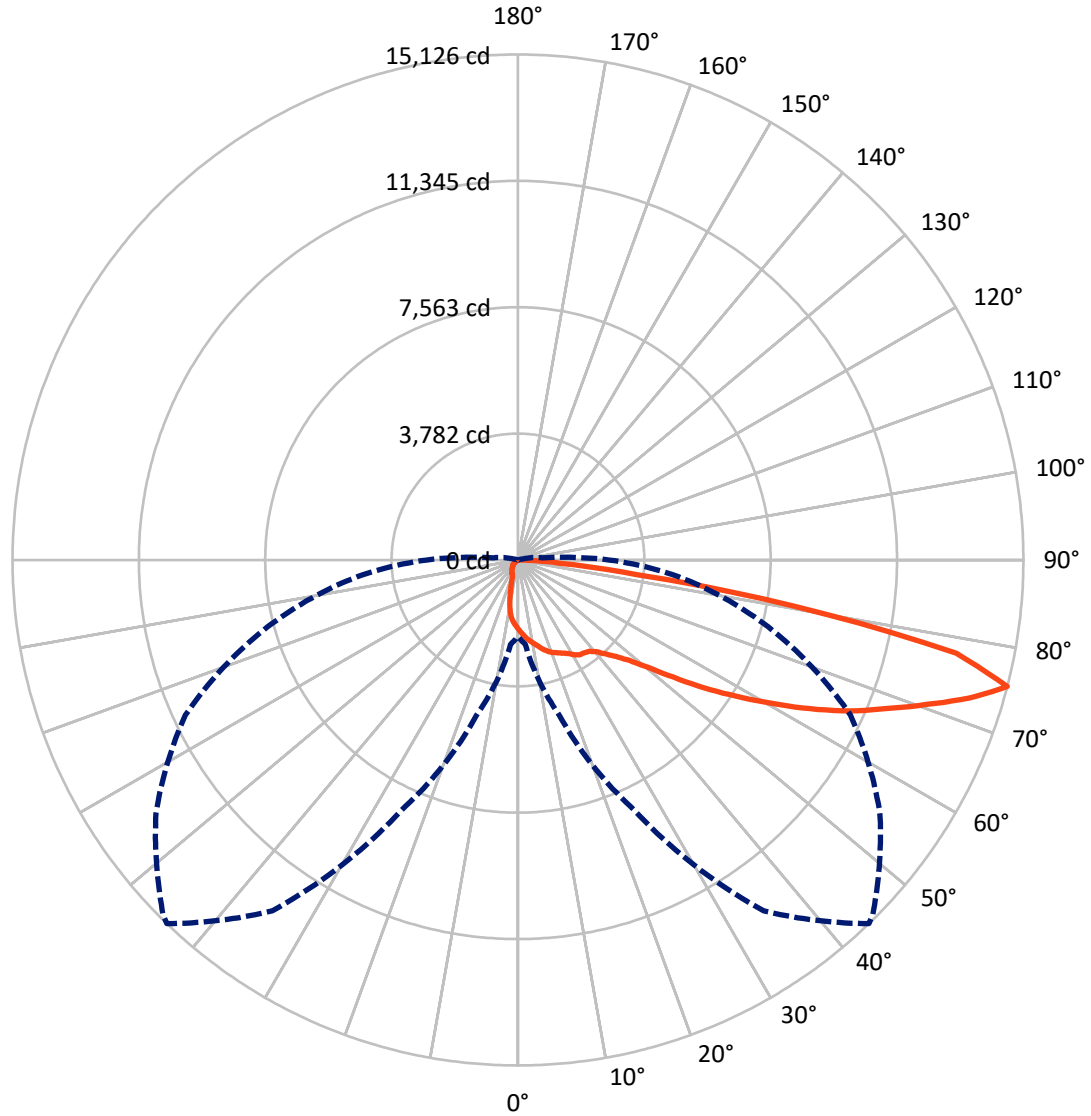
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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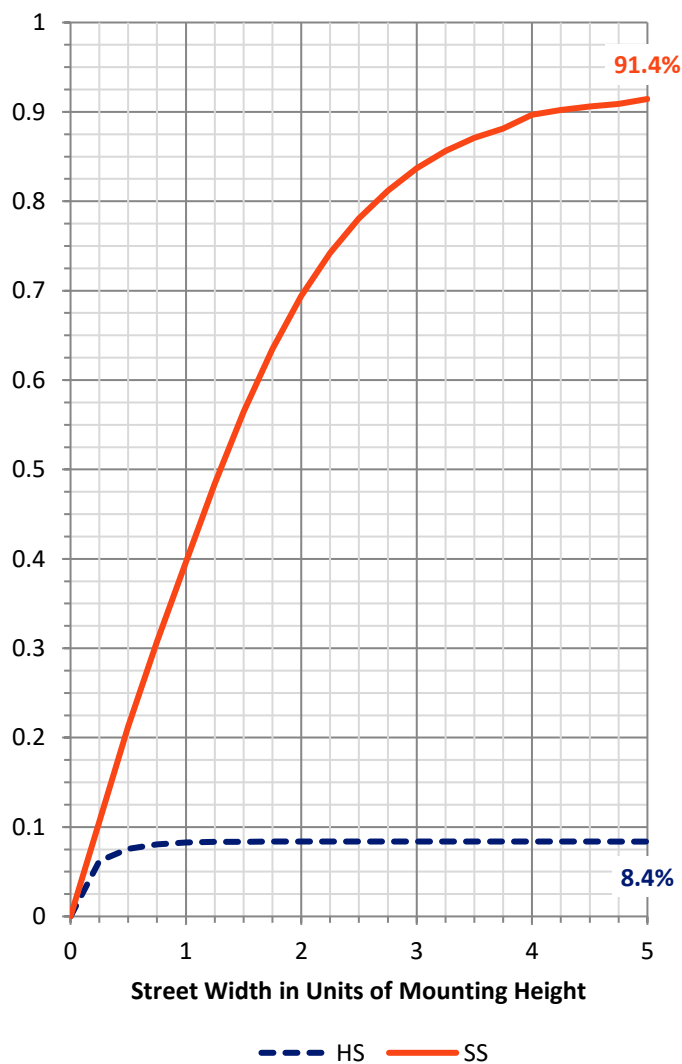
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1606.5	0.0	1606.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	17443.5	0.0	17443.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	19050.0	0.0	19050.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.5	1.0
10°-20°	548.0	2.9
20°-30°	904.3	4.7
30°-40°	1312.5	6.9
40°-50°	2133.5	11.2
50°-60°	3761.1	19.7
60°-70°	5405.5	28.4
70°-80°	4328.6	22.7
80°-90°	461.2	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°	19050.0	100.0
0°-180°	19050.0	100.0

**Coefficient of Utilization**



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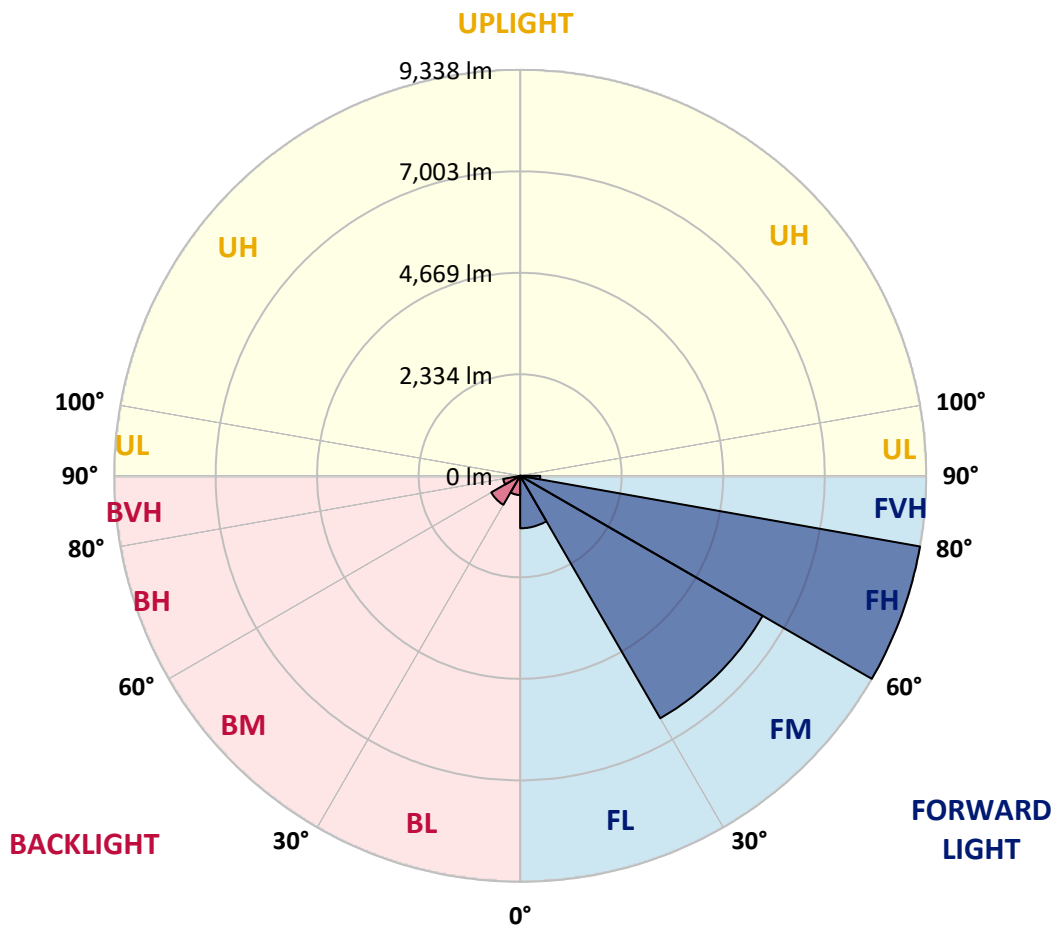
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.4	6.3			
FM (30°-60°)	6439.1	33.8			
FH (60°-80°)	9338.0	49.0			G4/12000
FVH (80°-90°)	460.0	2.4			G3/500
BL (0°-30°)	441.4	2.3	B1/500		
BM (30°-60°)	768.0	4.0	B1/1000		
BH (60°-80°)	396.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5
2.5°	2259.8	2256.3	2245.7	2228.2	2210.6	2193.0	2189.5	2161.4	2129.8	2105.2	2084.1
5°	2460.1	2456.6	2439.0	2400.4	2361.7	2316.0	2312.5	2245.7	2186.0	2119.2	2063.0
7.5°	2667.5	2660.4	2628.8	2569.1	2502.3	2432.0	2425.0	2326.6	2238.7	2150.8	2070.0
10°	2829.1	2822.1	2776.4	2706.1	2614.7	2526.9	2516.3	2414.4	2326.6	2214.1	2105.2
12.5°	2987.3	2973.2	2913.5	2836.2	2723.7	2639.3	2628.8	2523.4	2417.9	2302.0	2168.4
15°	3134.9	3117.3	3061.1	2962.7	2843.2	2762.4	2755.3	2642.9	2533.9	2400.4	2252.8
17.5°	3236.8	3229.8	3163.0	3054.0	2938.1	2871.3	2864.3	2748.3	2639.3	2498.8	2340.6
20°	3289.5	3289.5	3226.3	3106.8	3001.3	2955.6	2945.1	2836.2	2730.7	2597.2	2432.0
22.5°	3300.1	3310.6	3261.4	3131.4	3054.0	3015.4	3008.4	2913.5	2811.6	2688.5	2533.9
25°	3321.1	3321.1	3296.5	3156.0	3099.7	3089.2	3085.7	3001.3	2910.0	2787.0	2635.8
27.5°	3345.7	3345.7	3328.2	3191.1	3170.0	3166.5	3163.0	3124.3	3050.5	2906.4	2755.3
30°	3409.0	3412.5	3398.5	3261.4	3247.3	3286.0	3293.0	3271.9	3180.6	3001.3	2878.3
32.5°	3567.2	3535.5	3496.9	3310.6	3335.2	3384.4	3387.9	3345.7	3247.3	3103.3	3025.9
35°	3964.3	3778.0	3602.3	3352.8	3363.3	3412.5	3419.6	3416.0	3356.3	3233.3	3194.6
37.5°	4333.3	4069.7	3820.2	3451.2	3416.0	3468.8	3482.8	3542.6	3496.9	3412.5	3423.1
40°	4547.7	4445.8	4270.0	3721.8	3521.5	3602.3	3616.4	3707.7	3690.2	3655.0	3721.8
42.5°	5208.4	5215.4	5025.7	4126.0	3714.8	3844.8	3862.4	3936.2	3960.8	3978.3	4140.0
45°	5974.5	5999.2	5953.5	4853.4	4080.3	4122.4	4147.0	4245.4	4336.8	4449.3	4744.5
47.5°	6895.3	6874.2	6705.6	5742.6	4716.4	4480.9	4498.5	4688.3	4846.4	5092.4	5514.2
50°	7710.7	7763.4	7443.6	6572.0	5612.6	5046.7	5029.2	5215.4	5500.1	5844.5	6375.2
52.5°	8533.1	8455.7	8023.5	7394.4	6673.9	5816.4	5763.7	5865.6	6266.2	6673.9	7218.7
55°	8751.0	8758.0	8610.4	8294.1	7559.6	6751.2	6663.4	6656.4	7155.4	7433.0	8104.3
57.5°	9179.7	9197.3	9232.4	9295.7	8947.8	7686.1	7594.7	7496.3	7981.3	8143.0	8993.5
60°	9615.5	9636.6	9851.0	10191.9	9959.9	8694.7	8596.3	8364.4	8635.0	8852.9	9928.3
62.5°	9559.3	9706.9	10328.9	11007.2	10979.1	9801.8	9678.8	9120.0	9292.2	9482.0	10785.8
65°	8631.5	8789.6	10188.4	11232.2	12001.8	10894.8	10694.4	9900.2	9910.7	10139.2	11611.7
67.5°	7802.1	7974.3	9309.8	11137.3	12676.6	11875.3	11667.9	10683.9	10518.7	10898.3	12054.5
70°	7324.1	7496.3	8610.4	10842.1	12866.4	12961.3	12782.0	11580.1	11242.7	11590.6	11559.0
72.5°	5732.1	6002.7	7717.7	10279.7	13070.2	14124.5	13984.0	12715.2	11857.7	10866.7	8800.2
75°	2284.4	2533.9	4818.3	8273.0	12813.7	15126.2	15017.2	13224.8	10975.6	7759.9	4505.5
77.5°	688.8	738.0	1339.0	4090.8	9394.1	13411.1	13376.0	11119.7	7766.9	3602.3	1230.1
80°	228.4	253.0	411.2	1128.1	4287.6	8378.4	8536.6	7085.1	3528.5	825.9	249.5
82.5°	94.9	105.4	207.4	453.4	1518.2	3609.3	3556.6	3173.5	1230.1	513.1	91.4
85°	24.6	31.6	94.9	260.1	555.3	1244.1	1307.4	1064.9	695.9	425.2	28.1
87.5°	0.0	0.0	45.7	105.4	249.5	376.0	393.6	323.3	393.6	319.8	14.1
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°	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5	2073.5
2.5°	2066.5	2048.9	2017.3	1996.2	1968.1	1961.1	1947.0	1929.4	1925.9	1908.3	1911.9
5°	2031.3	2003.2	1947.0	1908.3	1862.7	1848.6	1824.0	1806.4	1792.4	1767.8	1771.3
7.5°	2024.3	1982.1	1904.8	1831.0	1757.2	1704.5	1630.7	1571.0	1521.8	1469.0	1479.6
10°	2048.9	1996.2	1887.3	1785.3	1651.8	1483.1	1289.8	1163.3	1100.0	1036.8	1043.8
12.5°	2098.1	2034.9	1894.3	1739.6	1469.0	1180.9	913.8	741.5	695.9	667.7	671.3
15°	2171.9	2094.6	1915.4	1651.8	1223.0	854.0	608.0	534.2	551.8	562.3	562.3
17.5°	2249.2	2161.4	1932.9	1493.6	945.4	597.5	495.5	488.5	513.1	537.7	537.7
20°	2344.1	2231.7	1936.5	1293.3	681.8	485.0	467.4	467.4	485.0	513.1	513.1
22.5°	2435.5	2309.0	1904.8	1064.9	520.1	449.8	449.8	449.8	460.4	488.5	492.0
25°	2544.5	2403.9	1838.1	822.4	446.3	428.8	428.8	432.3	439.3	463.9	467.4
27.5°	2660.4	2502.3	1725.6	601.0	407.7	404.2	407.7	411.2	414.7	439.3	446.3
30°	2794.0	2611.2	1581.5	449.8	372.5	372.5	383.1	390.1	390.1	411.2	418.2
32.5°	2948.6	2755.3	1409.3	372.5	337.4	333.9	351.4	362.0	362.0	379.6	386.6
35°	3141.9	2902.9	1201.9	330.4	309.3	302.2	309.3	326.8	333.9	347.9	351.4
37.5°	3398.5	3078.7	980.5	305.8	288.2	274.1	274.1	277.6	291.7	305.8	309.3
40°	3725.3	3271.9	762.6	288.2	267.1	253.0	242.5	239.0	235.5	246.0	253.0
42.5°	4136.5	3489.8	569.3	270.6	249.5	228.4	214.4	200.3	182.8	179.2	182.8
45°	4663.7	3756.9	421.7	256.6	239.0	207.4	182.8	158.1	126.5	116.0	119.5
47.5°	5285.7	4034.6	330.4	242.5	232.0	182.8	151.1	108.9	77.3	70.3	73.8
50°	5946.4	4301.7	281.2	224.9	217.9	158.1	108.9	66.8	45.7	45.7	49.2
52.5°	6508.7	4452.8	256.6	210.9	196.8	130.0	70.3	38.7	28.1	28.1	31.6
55°	7053.5	4533.6	239.0	196.8	168.7	91.4	38.7	24.6	17.6	17.6	17.6
57.5°	7615.8	4568.8	217.9	179.2	133.5	56.2	21.1	14.1	10.5	10.5	10.5
60°	8114.8	4502.0	186.3	147.6	87.9	28.1	10.5	10.5	7.0	3.5	3.5
62.5°	8533.1	4375.5	130.0	105.4	52.7	14.1	7.0	3.5	0.0	0.0	0.0
65°	8789.6	4171.6	84.3	70.3	31.6	10.5	3.5	0.0	0.0	0.0	0.0
67.5°	8715.8	3788.6	52.7	45.7	14.1	7.0	3.5	0.0	0.0	0.0	0.0
70°	7865.3	3106.8	38.7	28.1	10.5	3.5	0.0	0.0	0.0	0.0	0.0
72.5°	5668.8	2101.6	28.1	17.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2727.2	748.6	17.6	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	667.7	165.2	10.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.6	31.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	3.5	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)