

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: P399639

Luminaire Tested: **ARCH-L-PA3-170-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399639
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-PA3-170-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 750mA 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: 17148 lumens
Efficiency: N/A
Efficacy: 99.1 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

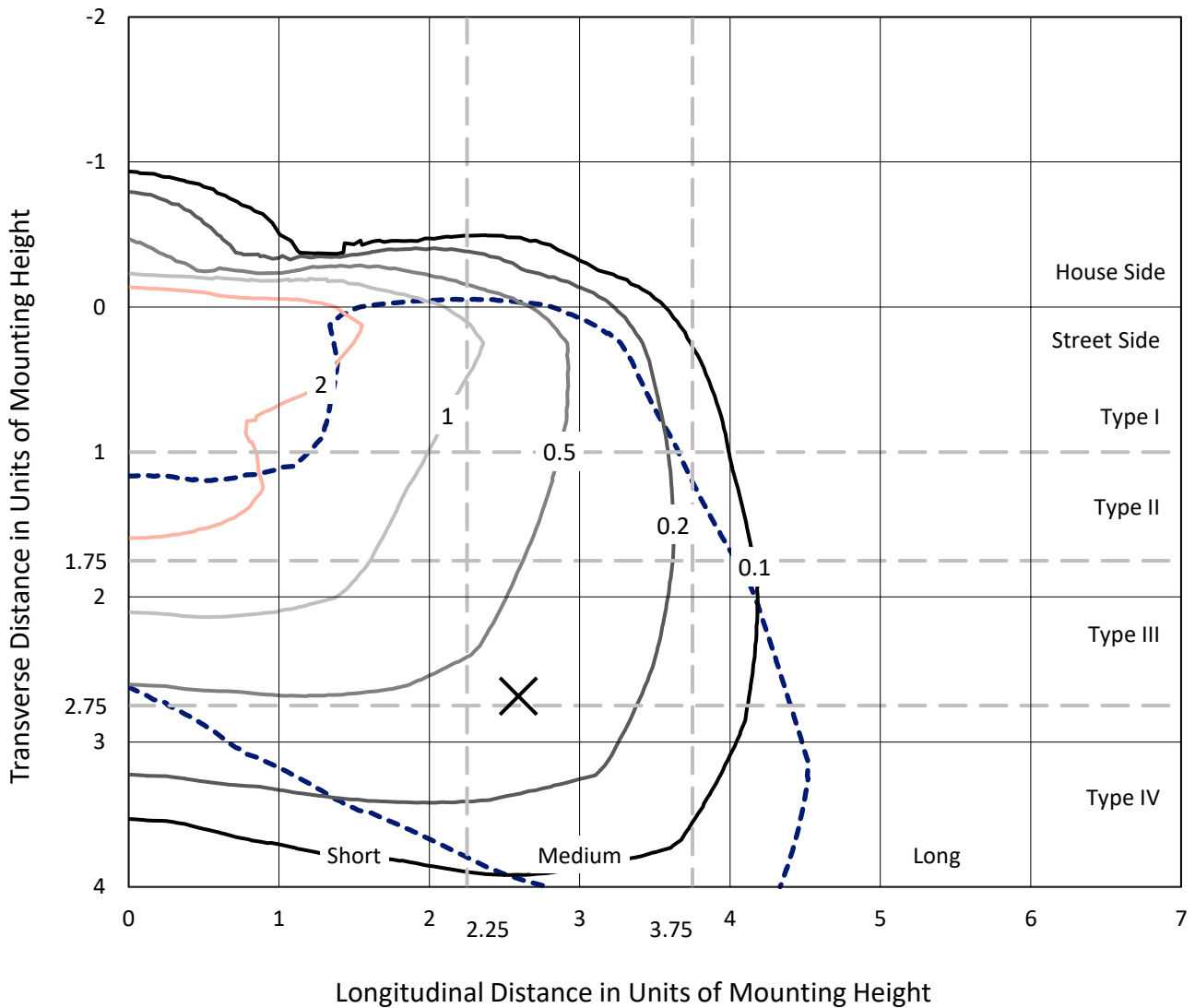
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

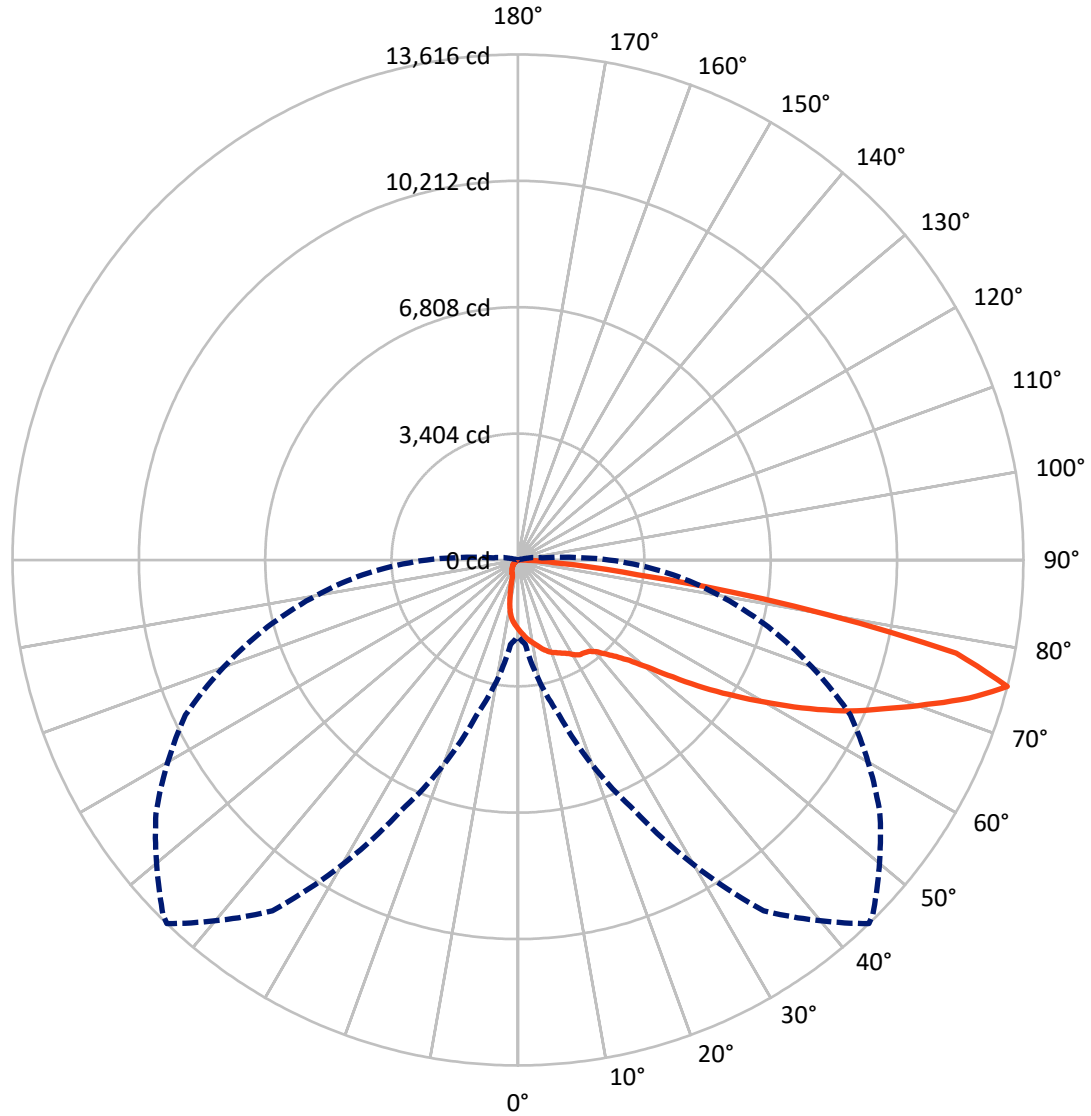
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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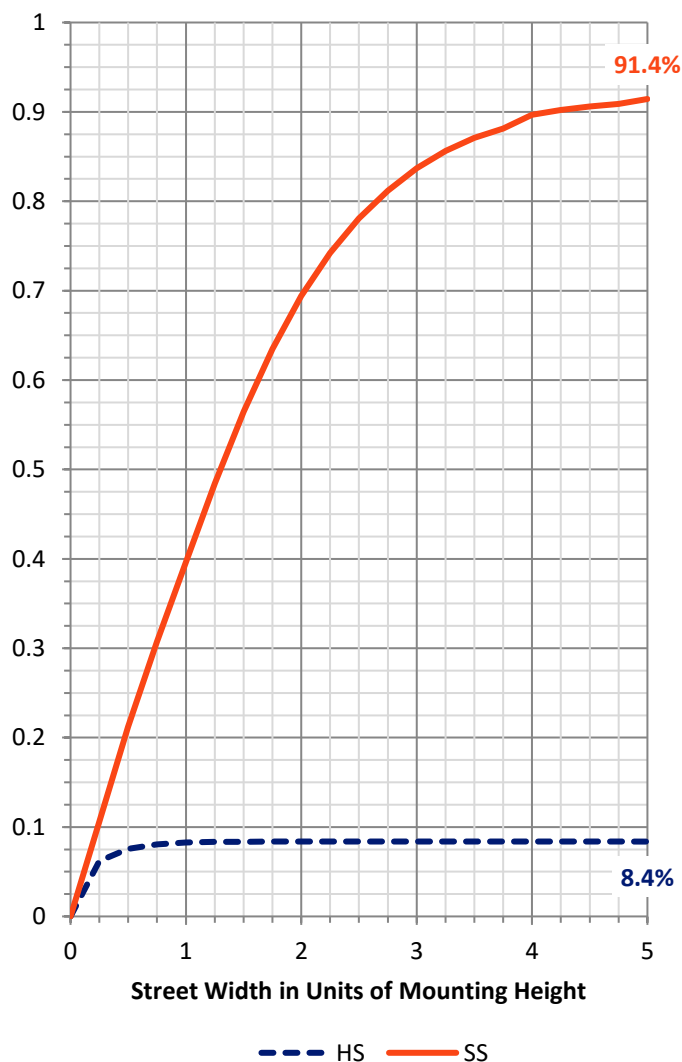
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1446.1	0.0	1446.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15701.9	0.0	15701.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	17148.0	0.0	17148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	1.0
10°-20°	493.2	2.9
20°-30°	814.0	4.7
30°-40°	1181.4	6.9
40°-50°	1920.5	11.2
50°-60°	3385.6	19.7
60°-70°	4865.8	28.4
70°-80°	3896.4	22.7
80°-90°	415.1	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°	17148.0	100.0
0°-180°	17148.0	100.0

Coefficient of Utilization

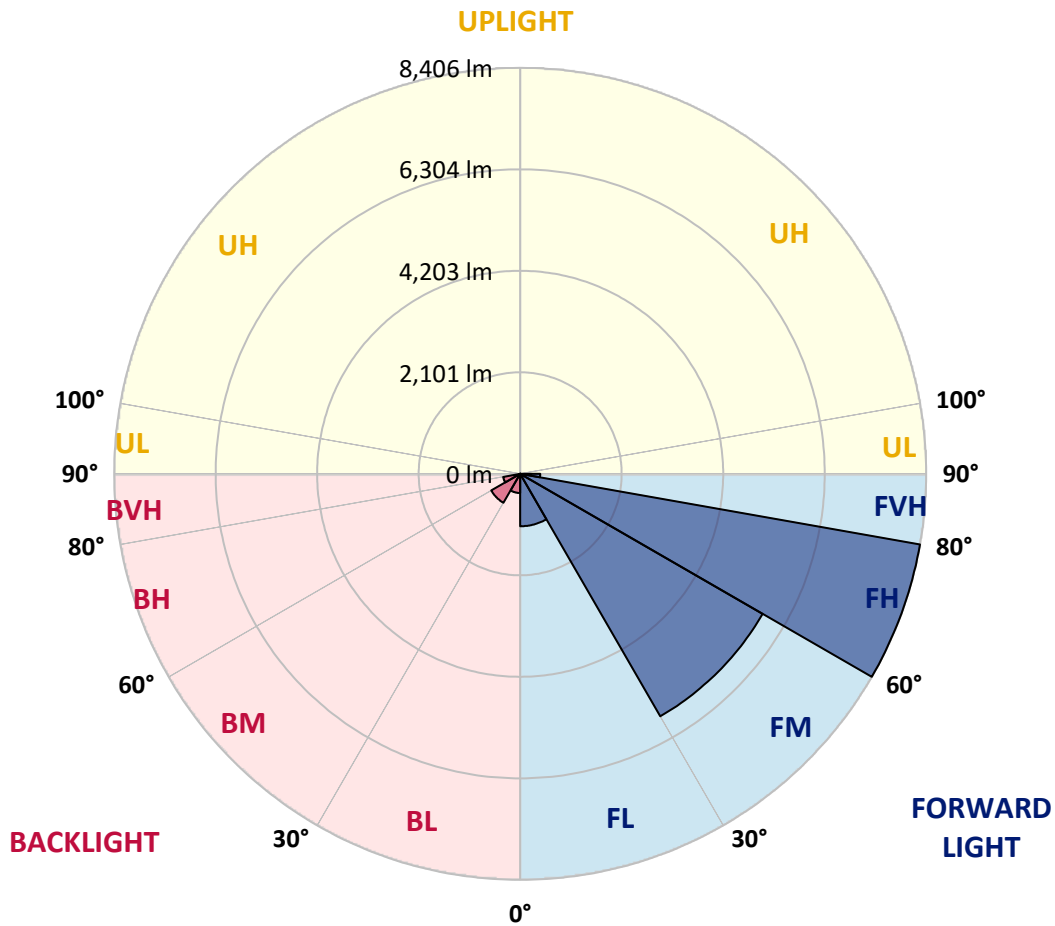


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.0	6.3			
FM (30°-60°)	5796.2	33.8			
FH (60°-80°)	8405.6	49.0			G4/12000
FVH (80°-90°)	414.1	2.4			G3/500
BL (0°-30°)	397.3	2.3	B1/500		
BM (30°-60°)	691.3	4.0	B1/1000		
BH (60°-80°)	356.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	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°	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5
2.5°	2034.2	2031.0	2021.5	2005.7	1989.9	1974.1	1970.9	1945.6	1917.1	1895.0	1876.0
5°	2214.5	2211.3	2195.5	2160.7	2125.9	2084.8	2081.6	2021.5	1967.7	1907.6	1857.0
7.5°	2401.1	2394.8	2366.3	2312.6	2252.4	2189.2	2182.8	2094.3	2015.2	1936.1	1863.3
10°	2546.7	2540.3	2499.2	2435.9	2353.7	2274.6	2265.1	2173.4	2094.3	1993.0	1895.0
12.5°	2689.0	2676.4	2622.6	2553.0	2451.8	2375.8	2366.3	2271.4	2176.5	2072.1	1951.9
15°	2821.9	2806.1	2755.5	2666.9	2559.3	2486.6	2480.2	2379.0	2280.9	2160.7	2027.8
17.5°	2913.6	2907.3	2847.2	2749.1	2644.7	2584.6	2578.3	2473.9	2375.8	2249.3	2106.9
20°	2961.1	2961.1	2904.1	2796.6	2701.7	2660.5	2651.1	2553.0	2458.1	2337.9	2189.2
22.5°	2970.6	2980.1	2935.8	2818.7	2749.1	2714.3	2708.0	2622.6	2530.8	2420.1	2280.9
25°	2989.6	2989.6	2967.4	2840.9	2790.3	2780.8	2777.6	2701.7	2619.4	2508.7	2372.7
27.5°	3011.7	3011.7	2995.9	2872.5	2853.5	2850.4	2847.2	2812.4	2746.0	2616.3	2480.2
30°	3068.6	3071.8	3059.2	2935.8	2923.1	2957.9	2964.2	2945.3	2863.0	2701.7	2590.9
32.5°	3211.0	3182.5	3147.7	2980.1	3002.2	3046.5	3049.7	3011.7	2923.1	2793.4	2723.8
35°	3568.5	3400.8	3242.6	3018.0	3027.5	3071.8	3078.1	3075.0	3021.2	2910.5	2875.7
37.5°	3900.7	3663.4	3438.8	3106.6	3075.0	3122.4	3135.1	3188.9	3147.7	3071.8	3081.3
40°	4093.6	4001.9	3843.7	3350.2	3169.9	3242.6	3255.3	3337.5	3321.7	3290.1	3350.2
42.5°	4688.4	4694.7	4523.9	3714.0	3343.9	3460.9	3476.7	3543.2	3565.3	3581.1	3726.7
45°	5378.0	5400.2	5359.1	4368.9	3672.9	3710.8	3733.0	3821.6	3903.8	4005.1	4270.8
47.5°	6206.9	6187.9	6036.1	5169.2	4245.5	4033.5	4049.3	4220.2	4362.5	4584.0	4963.6
50°	6940.8	6988.3	6700.4	5915.8	5052.2	4542.9	4527.0	4694.7	4951.0	5261.0	5738.7
52.5°	7681.1	7611.5	7222.4	6656.1	6007.6	5235.7	5188.2	5280.0	5640.6	6007.6	6497.9
55°	7877.2	7883.6	7750.7	7466.0	6804.8	6077.2	5998.1	5991.8	6441.0	6690.9	7295.1
57.5°	8263.2	8279.0	8310.6	8367.6	8054.4	6918.7	6836.4	6747.9	7184.4	7329.9	8095.5
60°	8655.5	8674.5	8867.4	9174.3	8965.5	7826.6	7738.0	7529.3	7772.8	7969.0	8937.0
62.5°	8604.9	8737.7	9297.7	9908.2	9882.9	8823.1	8712.4	8209.4	8364.4	8535.3	9708.9
65°	7769.7	7912.0	9171.1	10110.7	10803.5	9807.0	9626.7	8911.7	8921.2	9126.8	10452.4
67.5°	7023.1	7178.1	8380.2	10025.3	11410.9	10689.6	10503.0	9617.2	9468.5	9810.2	10851.0
70°	6592.8	6747.9	7750.7	9759.6	11581.8	11667.2	11505.8	10423.9	10120.2	10433.4	10404.9
72.5°	5159.8	5403.3	6947.2	9253.4	11765.2	12714.3	12587.8	11445.7	10673.8	9781.7	7921.5
75°	2056.3	2280.9	4337.2	7447.0	11534.3	13615.9	13517.9	11904.4	9879.8	6985.1	4055.7
77.5°	620.1	664.3	1205.3	3682.4	8456.2	12072.1	12040.5	10009.5	6991.4	3242.6	1107.2
80°	205.6	227.8	370.1	1015.5	3859.5	7541.9	7684.3	6377.7	3176.2	743.4	224.6
82.5°	85.4	94.9	186.6	408.1	1366.7	3249.0	3201.5	2856.7	1107.2	461.9	82.3
85°	22.1	28.5	85.4	234.1	499.8	1119.9	1176.8	958.6	626.4	382.8	25.3
87.5°	0.0	0.0	41.1	94.9	224.6	338.5	354.3	291.0	354.3	287.9	12.7
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°	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5	1866.5
2.5°	1860.2	1844.3	1815.9	1796.9	1771.6	1765.3	1752.6	1736.8	1733.6	1717.8	1721.0
5°	1828.5	1803.2	1752.6	1717.8	1676.7	1664.0	1641.9	1626.1	1613.4	1591.3	1594.4
7.5°	1822.2	1784.2	1714.6	1648.2	1581.8	1534.3	1467.9	1414.1	1369.8	1322.4	1331.9
10°	1844.3	1796.9	1698.8	1607.1	1486.9	1335.0	1161.0	1047.1	990.2	933.2	939.6
12.5°	1888.6	1831.7	1705.2	1566.0	1322.4	1063.0	822.5	667.5	626.4	601.1	604.2
15°	1955.1	1885.5	1724.1	1486.9	1100.9	768.7	547.3	480.9	496.7	506.2	506.2
17.5°	2024.7	1945.6	1740.0	1344.5	851.0	537.8	446.1	439.7	461.9	484.0	484.0
20°	2110.1	2008.9	1743.1	1164.2	613.7	436.6	420.8	420.8	436.6	461.9	461.9
22.5°	2192.3	2078.5	1714.6	958.6	468.2	404.9	404.9	404.9	414.4	439.7	442.9
25°	2290.4	2163.9	1654.5	740.3	401.8	386.0	386.0	389.1	395.4	417.6	420.8
27.5°	2394.8	2252.4	1553.3	541.0	367.0	363.8	367.0	370.1	373.3	395.4	401.8
30°	2515.0	2350.5	1423.6	404.9	335.3	335.3	344.8	351.2	351.2	370.1	376.5
32.5°	2654.2	2480.2	1268.6	335.3	303.7	300.5	316.4	325.8	325.8	341.7	348.0
35°	2828.2	2613.1	1081.9	297.4	278.4	272.1	278.4	294.2	300.5	313.2	316.4
37.5°	3059.2	2771.3	882.6	275.2	259.4	246.8	246.8	249.9	262.6	275.2	278.4
40°	3353.4	2945.3	686.5	259.4	240.4	227.8	218.3	215.1	212.0	221.4	227.8
42.5°	3723.5	3141.4	512.5	243.6	224.6	205.6	193.0	180.3	164.5	161.3	164.5
45°	4198.0	3381.8	379.6	230.9	215.1	186.6	164.5	142.4	113.9	104.4	107.6
47.5°	4758.0	3631.8	297.4	218.3	208.8	164.5	136.0	98.1	69.6	63.3	66.4
50°	5352.7	3872.2	253.1	202.5	196.1	142.4	98.1	60.1	41.1	41.1	44.3
52.5°	5858.9	4008.2	230.9	189.8	177.2	117.1	63.3	34.8	25.3	25.3	28.5
55°	6349.2	4081.0	215.1	177.2	151.9	82.3	34.8	22.1	15.8	15.8	15.8
57.5°	6855.4	4112.6	196.1	161.3	120.2	50.6	19.0	12.7	9.5	9.5	9.5
60°	7304.6	4052.5	167.7	132.9	79.1	25.3	9.5	9.5	6.3	3.2	3.2
62.5°	7681.1	3938.6	117.1	94.9	47.5	12.7	6.3	3.2	0.0	0.0	0.0
65°	7912.0	3755.1	75.9	63.3	28.5	9.5	3.2	0.0	0.0	0.0	0.0
67.5°	7845.6	3410.3	47.5	41.1	12.7	6.3	3.2	0.0	0.0	0.0	0.0
70°	7080.0	2796.6	34.8	25.3	9.5	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	5102.8	1891.8	25.3	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2454.9	673.8	15.8	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	601.1	148.7	9.5	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.9	28.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.3	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	3.2	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)