

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: P399898

Luminaire Tested: **ARCH-L-PA3-200-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399898
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-PA3-200-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 860mA 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: 16838 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

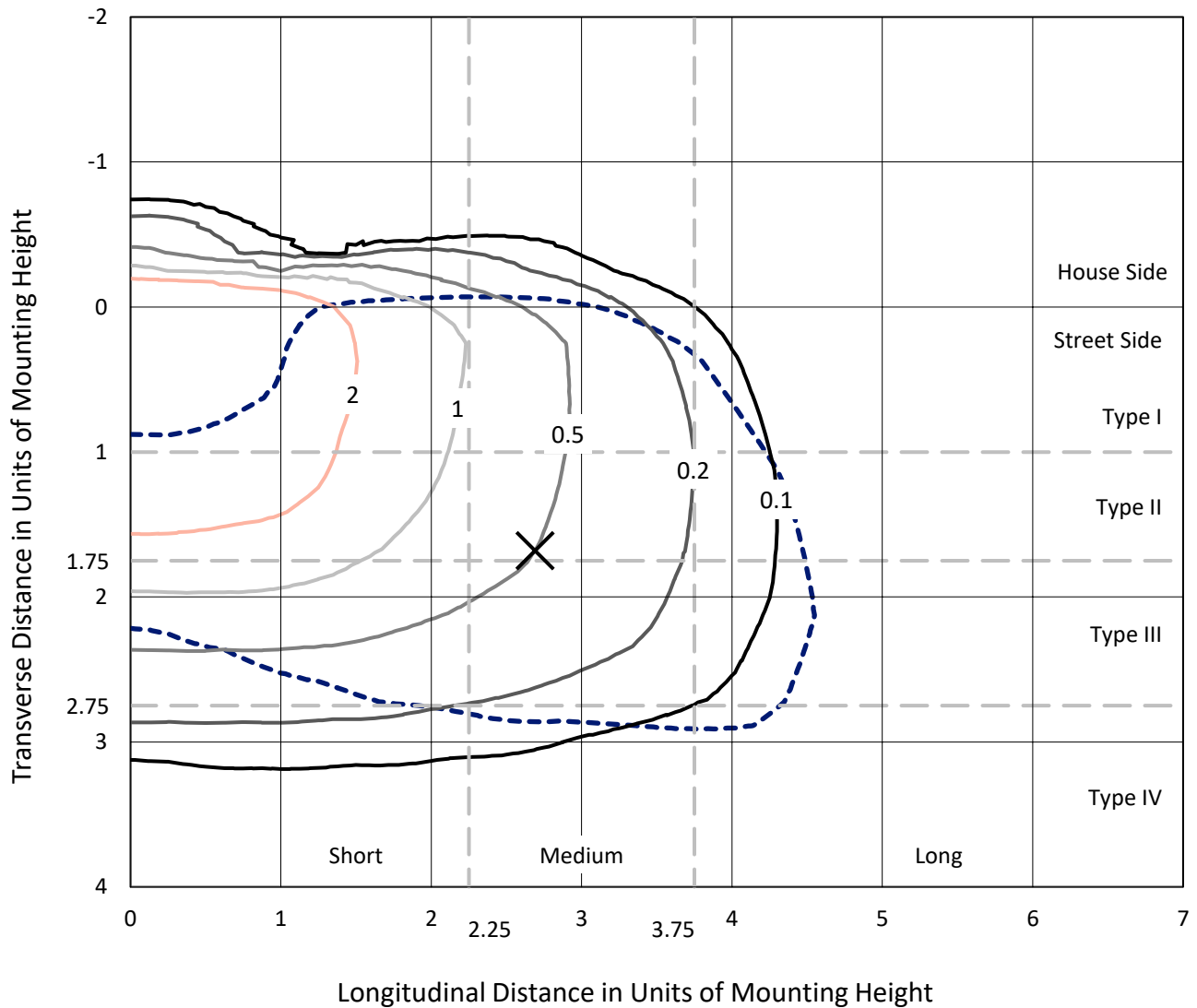
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

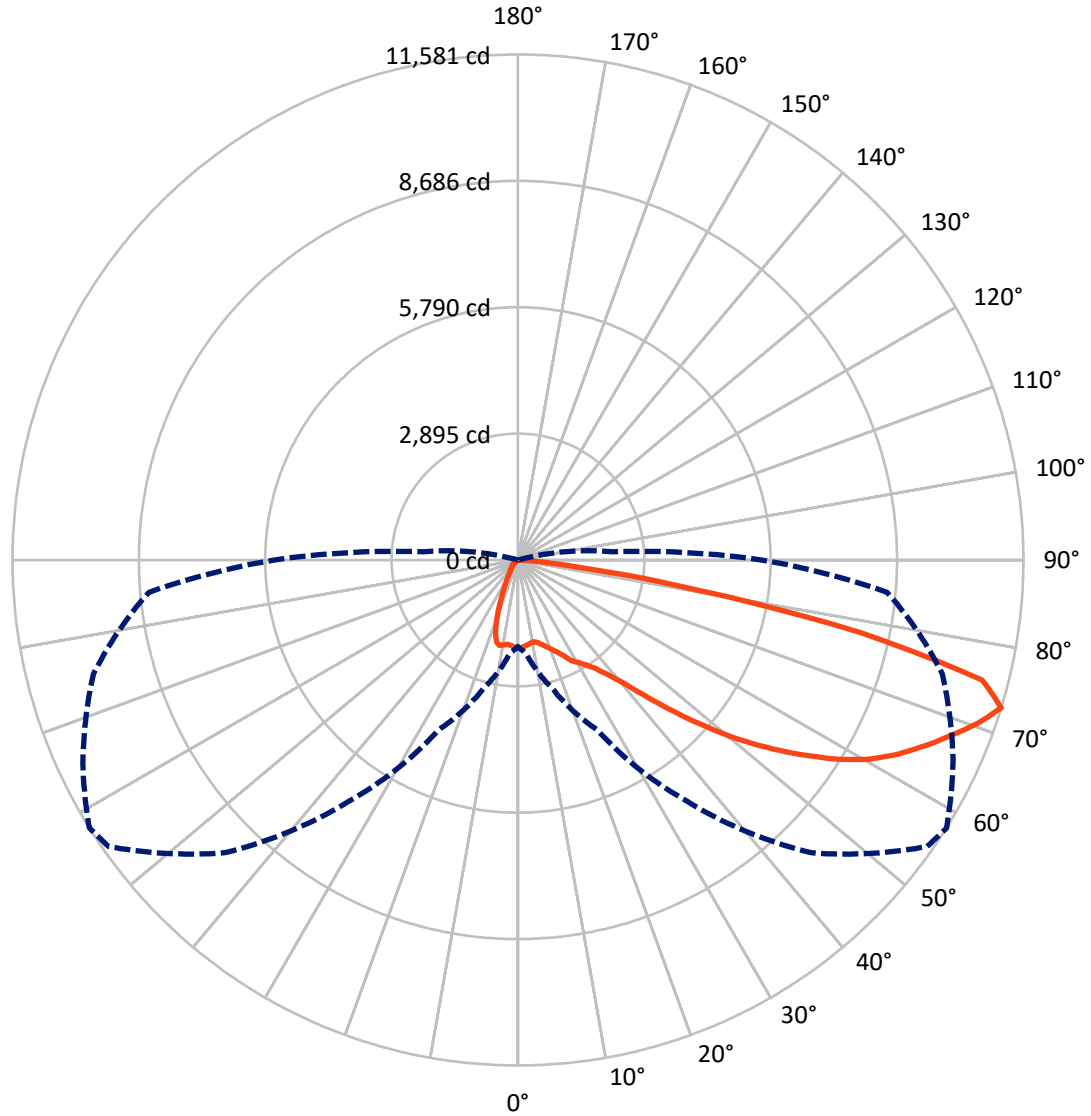
✕ Max cd
 - - - 1/2 Max cd



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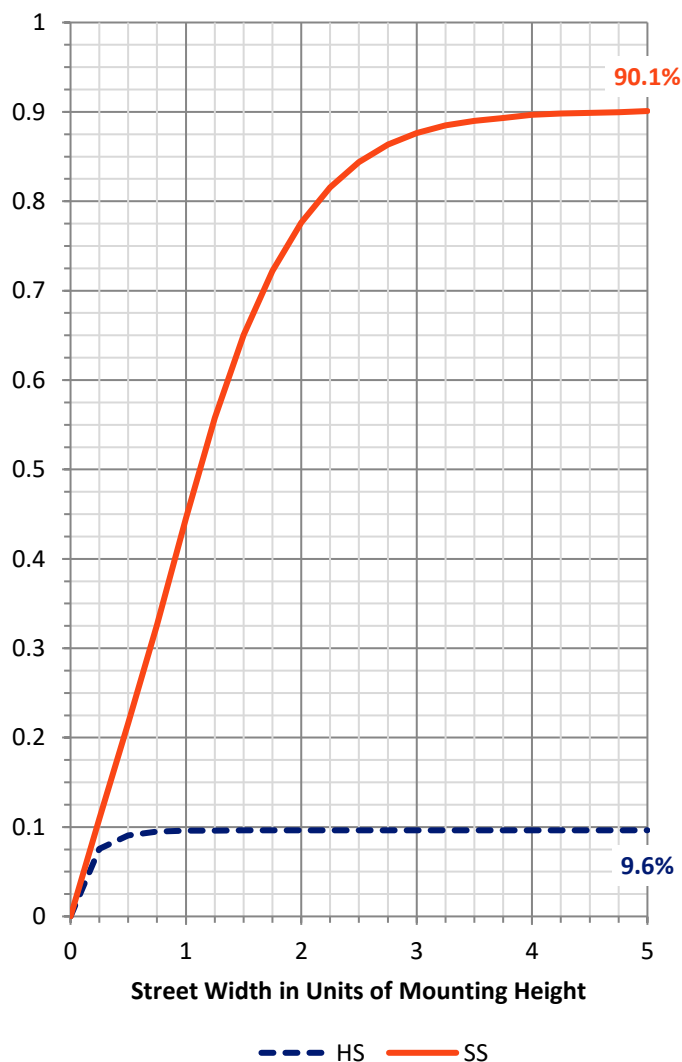
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1637.4	0.0	1637.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	15200.6	0.0	15200.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	16838.0	0.0	16838.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	1.1
10°-20°	483.0	2.9
20°-30°	758.7	4.5
30°-40°	1308.4	7.8
40°-50°	2489.4	14.8
50°-60°	3942.4	23.4
60°-70°	4600.3	27.3
70°-80°	2881.2	17.1
80°-90°	189.1	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°	16838.0	100.0
0°-180°	16838.0	100.0

Coefficient of Utilization

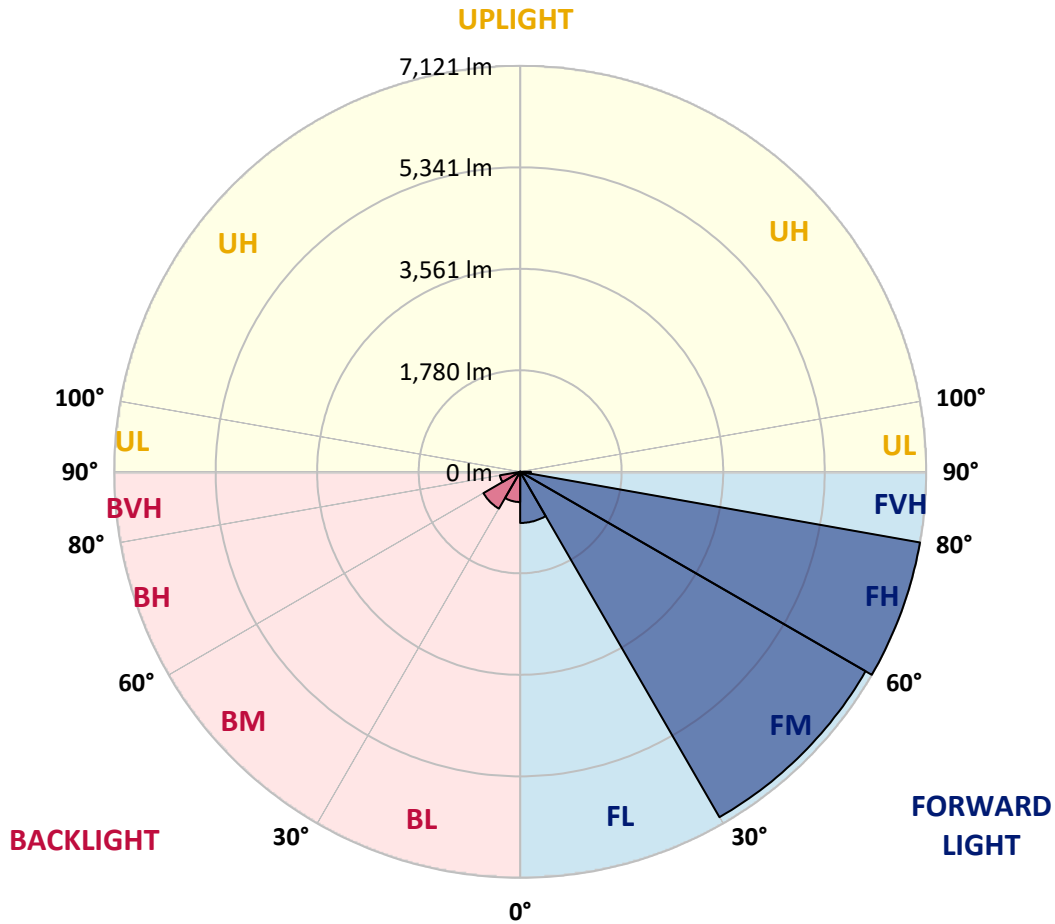


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.9	5.3			
FM (30°-60°)	6995.2	41.5			
FH (60°-80°)	7121.3	42.3			G3/7500
FVH (80°-90°)	187.3	1.1			G2/225
BL (0°-30°)	530.2	3.1	B2/1000		
BM (30°-60°)	745.0	4.4	B1/1000		
BH (60°-80°)	360.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5
2.5°	2011.4	2002.4	1999.4	1996.4	1999.4	2002.4	1993.4	2002.4	1996.4	1999.4	2005.4
5°	1939.2	1930.1	1927.1	1930.1	1939.2	1954.2	1960.2	1969.3	1969.3	1978.3	1981.3
7.5°	1857.9	1851.8	1848.8	1854.8	1872.9	1906.0	1924.1	1936.1	1948.2	1966.3	1984.3
10°	1812.7	1809.7	1806.7	1815.7	1833.8	1863.9	1888.0	1906.0	1951.2	2002.4	2035.5
12.5°	1782.6	1782.6	1788.6	1806.7	1830.8	1854.8	1912.1	1936.1	2005.4	2083.7	2128.9
15°	1758.5	1758.5	1767.5	1800.6	1833.8	1891.0	1975.3	2002.4	2083.7	2180.0	2240.3
17.5°	1740.4	1746.4	1752.5	1785.6	1848.8	1945.2	2044.5	2083.7	2183.1	2288.4	2354.7
20°	1743.4	1749.5	1752.5	1785.6	1875.9	2008.4	2134.9	2180.0	2294.5	2405.9	2472.1
22.5°	1761.5	1770.5	1773.5	1818.7	1924.1	2074.7	2237.3	2288.4	2411.9	2529.3	2580.5
25°	1836.8	1842.8	1824.7	1863.9	1993.4	2177.0	2369.7	2423.9	2547.4	2655.8	2698.0
27.5°	2092.7	2098.7	1999.4	1954.2	2047.6	2261.3	2532.3	2607.6	2761.2	2833.5	2839.5
30°	2646.8	2652.8	2457.1	2243.3	2177.0	2333.6	2622.7	2728.1	2926.8	3008.1	2972.0
32.5°	3360.4	3354.4	3086.4	2770.2	2484.2	2460.1	2752.2	2863.6	3080.4	3158.7	3131.6
35°	4077.0	4086.1	3857.2	3381.5	2972.0	2698.0	2917.8	3047.2	3309.2	3420.6	3372.4
37.5°	4567.9	4628.1	4528.7	4013.8	3571.2	3137.6	3185.8	3324.3	3652.5	3803.0	3700.7
40°	5260.4	5245.4	5004.5	4625.1	4233.6	3788.0	3619.4	3685.6	4062.0	4263.7	4104.1
42.5°	6190.9	6160.7	5751.2	5380.9	4944.2	4579.9	4236.6	4224.6	4531.7	4766.6	4534.7
45°	7034.0	6988.8	6708.8	6350.4	5871.7	5453.1	4989.4	4884.0	5097.8	5296.5	5025.5
47.5°	7705.4	7630.2	7431.4	7241.7	7124.3	6473.9	5778.3	5618.7	5727.1	5874.7	5492.3
50°	8500.4	8292.6	8003.5	7889.1	8133.0	7630.2	6537.1	6383.6	6377.5	6461.9	5974.0
52.5°	8861.7	8485.3	8322.7	8419.1	8849.7	8705.1	7356.2	7136.3	7049.0	7058.1	6422.7
55°	8425.1	8382.9	8470.3	8771.4	9334.5	9250.1	8142.1	7871.1	7741.6	7579.0	6853.3
57.5°	7928.3	8057.7	8404.0	8979.1	9948.7	9819.2	8915.9	8608.8	8370.9	7997.5	7332.1
60°	7470.6	7603.1	8175.2	9027.3	10286.0	10367.3	9560.3	9268.2	8915.9	8425.1	7859.0
62.5°	6775.0	6877.4	7681.4	8958.1	10138.4	10686.4	10008.9	9789.1	9460.9	8831.6	8464.2
65°	5992.1	6058.4	6853.3	8404.0	9849.4	10650.3	10379.3	10255.9	9936.7	9256.2	9063.5
67.5°	5133.9	5212.2	5874.7	7407.3	9283.3	10481.7	10728.6	10716.6	10352.2	9725.9	9497.1
70°	4146.3	4152.3	4700.3	6142.7	8295.6	10144.4	11162.2	11189.3	10749.7	10078.2	9515.1
72.5°	1984.3	2146.9	3047.2	4287.8	6741.9	9482.0	11445.2	11580.7	10999.6	10066.2	8488.3
75°	454.7	469.7	888.3	2038.5	3953.6	7277.9	10737.6	10990.6	10391.4	8705.1	5980.1
77.5°	165.6	174.6	249.9	596.2	1520.6	3760.9	7684.4	8054.7	7681.4	5627.8	2827.4
80°	111.4	108.4	129.5	265.0	698.6	1065.9	3929.5	4149.3	3788.0	1921.1	677.5
82.5°	57.2	60.2	90.3	147.5	469.7	370.4	1312.8	1427.3	1174.3	385.4	126.5
85°	27.1	27.1	51.2	93.3	198.7	129.5	292.1	352.3	316.2	168.6	42.2
87.5°	27.1	27.1	48.2	60.2	102.4	54.2	72.3	90.3	84.3	90.3	15.1
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°	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5	2020.5
2.5°	2005.4	2002.4	1999.4	2005.4	2002.4	2008.4	2008.4	2014.4	2014.4	2008.4	2005.4
5°	1978.3	1972.3	1966.3	1966.3	1963.2	1969.3	1987.3	2002.4	2005.4	1996.4	1993.4
7.5°	1981.3	1981.3	1975.3	1963.2	1942.2	1942.2	1942.2	1960.2	1969.3	1963.2	1960.2
10°	2035.5	2038.5	2023.5	1996.4	1960.2	1927.1	1863.9	1770.5	1683.2	1659.1	1650.1
12.5°	2128.9	2131.9	2101.8	2053.6	1978.3	1782.6	1541.7	1318.9	1147.2	1099.1	1090.0
15°	2240.3	2243.3	2189.1	2110.8	1881.9	1427.3	1068.9	816.0	665.5	629.3	626.3
17.5°	2354.7	2348.7	2267.4	2116.8	1595.9	1011.7	650.4	520.9	481.8	472.7	475.8
20°	2466.1	2448.0	2336.6	2005.4	1228.5	662.4	475.8	445.6	436.6	430.6	430.6
22.5°	2568.5	2532.3	2393.8	1785.6	861.2	475.8	424.6	418.5	406.5	397.5	394.5
25°	2670.9	2619.7	2430.0	1499.5	578.1	415.5	400.5	388.4	373.4	361.3	358.3
27.5°	2794.3	2722.0	2411.9	1138.2	433.6	385.4	373.4	355.3	334.2	316.2	310.1
30°	2911.7	2830.4	2309.5	785.9	370.4	355.3	337.2	310.1	283.0	262.0	255.9
32.5°	3059.3	2965.9	2125.8	514.9	322.2	310.1	292.1	259.0	222.8	198.7	192.7
35°	3270.1	3164.7	1891.0	361.3	283.0	262.0	237.9	201.7	162.6	144.5	141.5
37.5°	3565.2	3423.6	1595.9	292.1	249.9	219.8	183.7	147.5	120.4	105.4	102.4
40°	3926.5	3709.7	1267.7	259.0	222.8	183.7	138.5	105.4	87.3	75.3	75.3
42.5°	4317.9	3977.7	933.4	237.9	195.7	150.6	102.4	75.3	63.2	57.2	54.2
45°	4721.4	4215.6	629.3	219.8	171.6	114.4	72.3	51.2	42.2	42.2	39.1
47.5°	5140.0	4375.1	406.5	198.7	144.5	84.3	48.2	36.1	30.1	30.1	30.1
50°	5555.5	4459.5	289.1	180.7	117.4	57.2	36.1	27.1	24.1	24.1	24.1
52.5°	5856.6	4405.3	231.9	156.6	90.3	42.2	27.1	21.1	18.1	18.1	18.1
55°	6118.6	4311.9	201.7	135.5	66.2	30.1	21.1	18.1	15.1	15.1	15.1
57.5°	6386.6	4191.5	180.7	114.4	48.2	21.1	15.1	12.0	12.0	12.0	12.0
60°	6630.5	3986.7	156.6	90.3	33.1	15.1	12.0	9.0	9.0	9.0	9.0
62.5°	6868.4	3812.1	135.5	69.3	24.1	12.0	6.0	6.0	3.0	3.0	3.0
65°	7003.9	3577.2	108.4	45.2	15.1	9.0	3.0	3.0	0.0	0.0	0.0
67.5°	6961.7	3297.2	75.3	27.1	9.0	6.0	3.0	0.0	0.0	0.0	0.0
70°	6669.6	2920.8	45.2	15.1	9.0	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	5585.6	2162.0	27.1	12.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	3730.8	993.7	15.1	9.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1707.3	298.1	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	343.3	78.3	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	72.3	15.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	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)