

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: P399565

Luminaire Tested: **ARCH-L-PA3-160-730-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399565
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-PA3-160-730-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA 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: 16574 lumens
Efficiency: N/A
Efficacy: 102.3 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

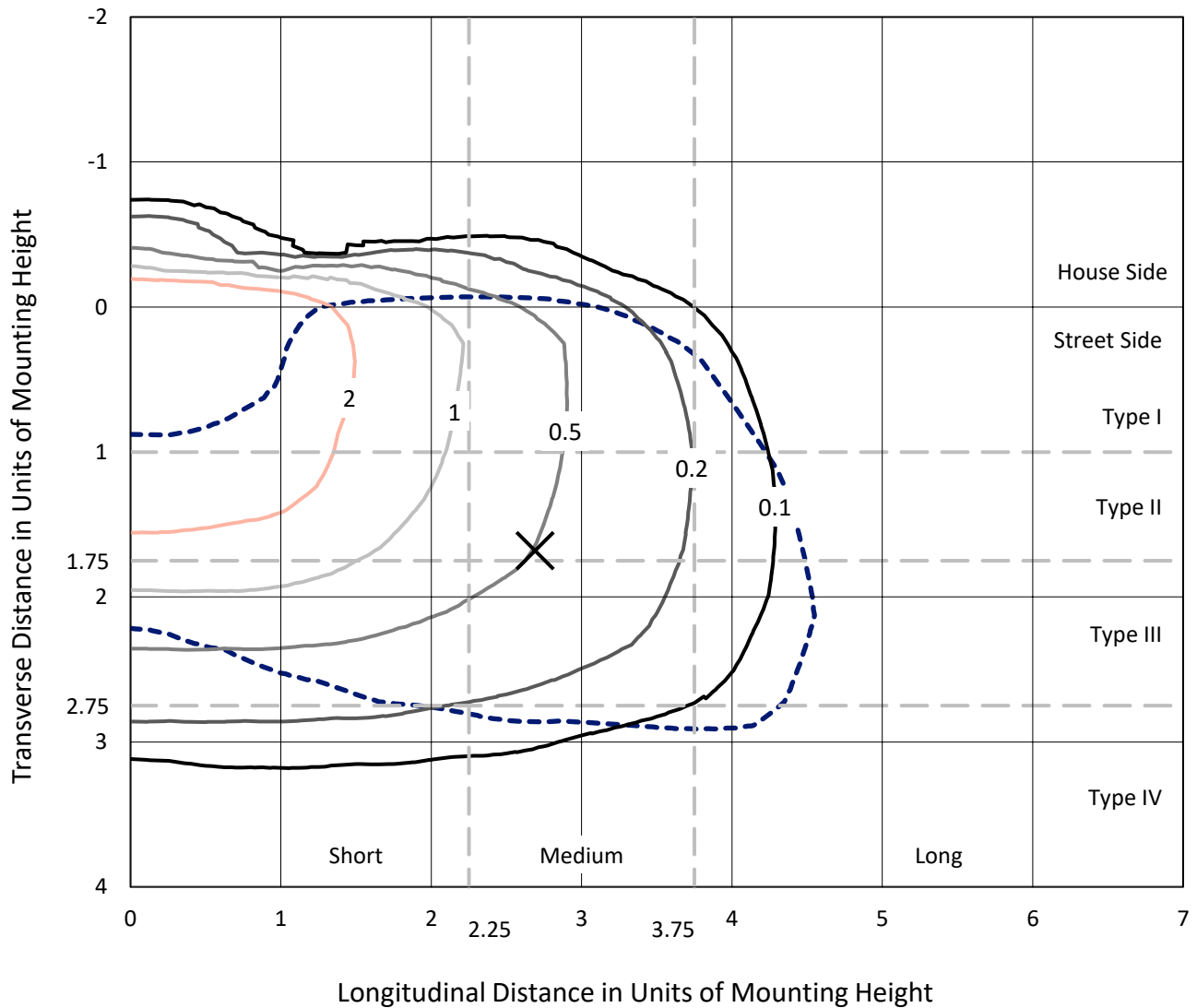
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

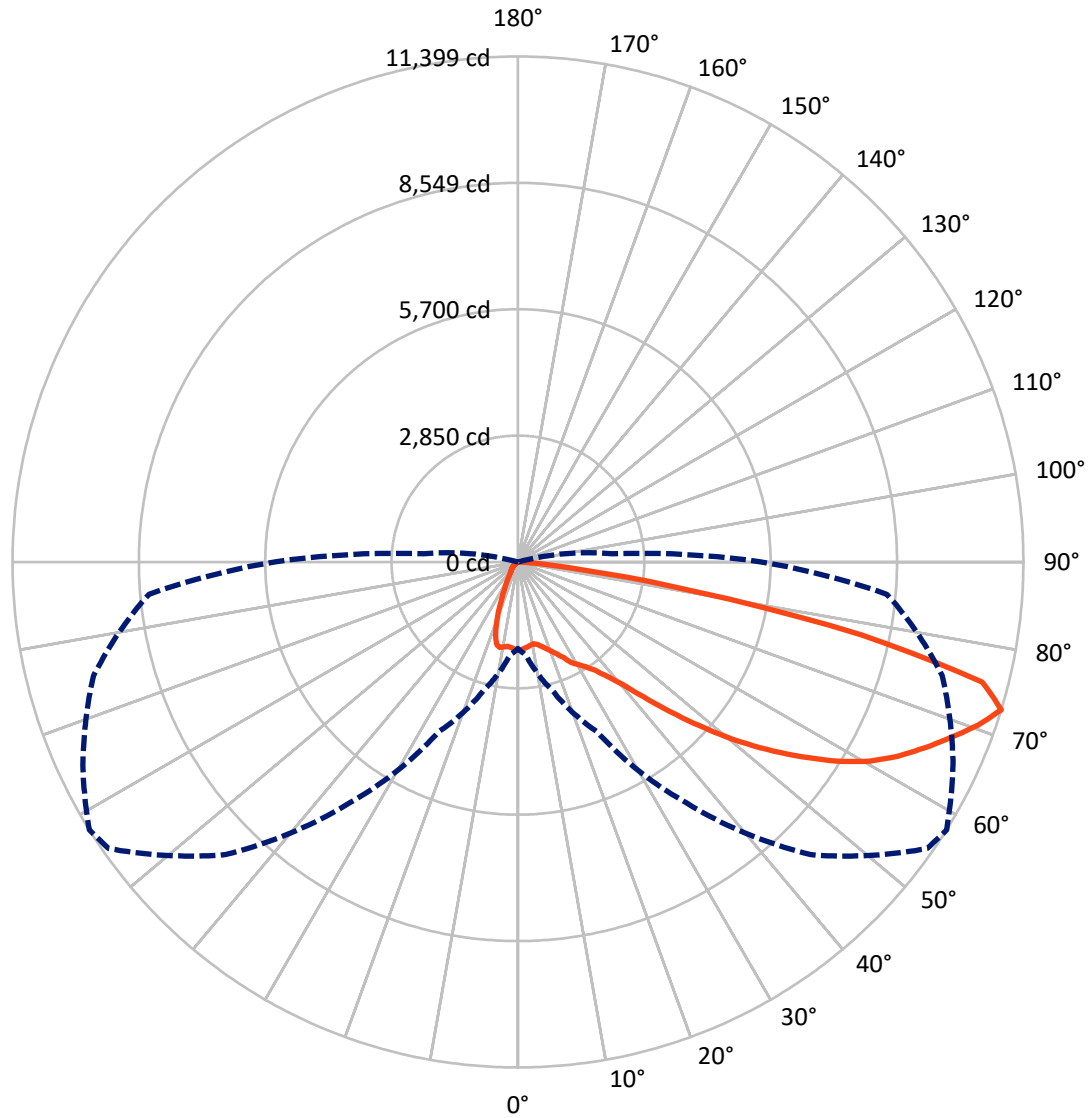
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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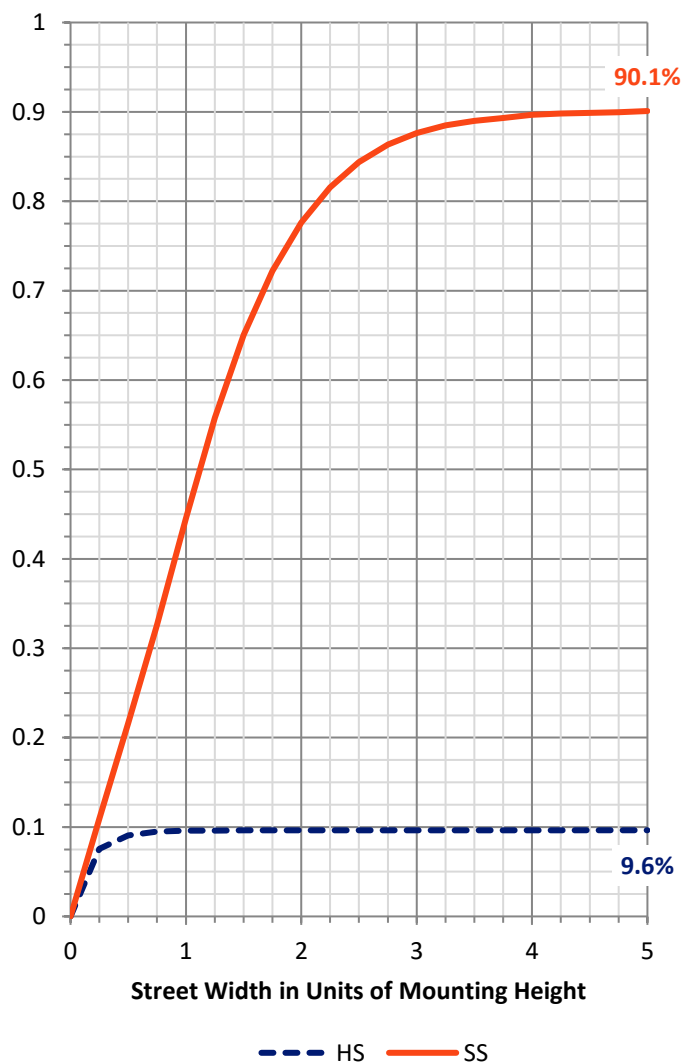
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.7	0.0	1611.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	14962.3	0.0	14962.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	16574.0	0.0	16574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	1.1
10°-20°	475.4	2.9
20°-30°	746.8	4.5
30°-40°	1287.9	7.8
40°-50°	2450.4	14.8
50°-60°	3880.6	23.4
60°-70°	4528.2	27.3
70°-80°	2836.0	17.1
80°-90°	186.2	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°	16574.0	100.0
0°-180°	16574.0	100.0

Coefficient of Utilization



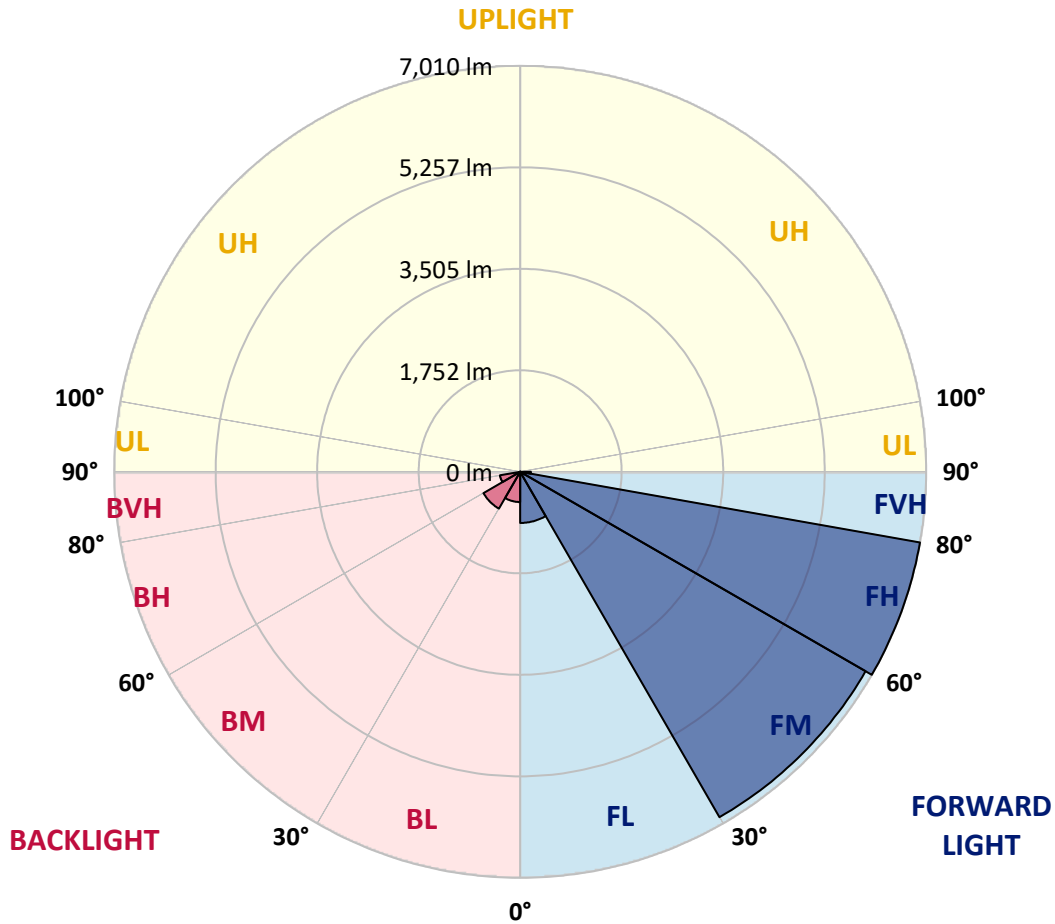
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.8	5.3			
FM (30°-60°)	6885.5	41.5			
FH (60°-80°)	7009.6	42.3			G3/7500
FVH (80°-90°)	184.4	1.1			G2/225
BL (0°-30°)	521.9	3.1	B2/1000		
BM (30°-60°)	733.3	4.4	B1/1000		
BH (60°-80°)	354.6	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°	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8
2.5°	1979.9	1971.0	1968.0	1965.1	1968.0	1971.0	1962.1	1971.0	1965.1	1968.0	1974.0
5°	1908.8	1899.9	1896.9	1899.9	1908.8	1923.6	1929.5	1938.4	1938.4	1947.3	1950.2
7.5°	1828.7	1822.8	1819.8	1825.8	1843.5	1876.2	1893.9	1905.8	1917.6	1935.4	1953.2
10°	1784.3	1781.3	1778.3	1787.2	1805.0	1834.7	1858.4	1876.2	1920.6	1971.0	2003.6
12.5°	1754.6	1754.6	1760.6	1778.3	1802.1	1825.8	1882.1	1905.8	1974.0	2051.0	2095.5
15°	1730.9	1730.9	1739.8	1772.4	1805.0	1861.3	1944.3	1971.0	2051.0	2145.9	2205.1
17.5°	1713.1	1719.1	1725.0	1757.6	1819.8	1914.7	2012.5	2051.0	2148.8	2252.6	2317.8
20°	1716.1	1722.0	1725.0	1757.6	1846.5	1976.9	2101.4	2145.9	2258.5	2368.2	2433.4
22.5°	1733.9	1742.8	1745.7	1790.2	1893.9	2042.1	2202.2	2252.6	2374.1	2489.7	2540.1
25°	1808.0	1813.9	1796.1	1834.7	1962.1	2142.9	2332.6	2385.9	2507.5	2614.2	2655.7
27.5°	2059.9	2065.8	1968.0	1923.6	2015.5	2225.9	2492.6	2566.7	2717.9	2789.0	2795.0
30°	2605.3	2611.2	2418.5	2208.1	2142.9	2297.0	2581.6	2685.3	2880.9	2960.9	2925.4
32.5°	3307.7	3301.8	3038.0	2726.8	2445.2	2421.5	2709.0	2818.7	3032.1	3109.1	3082.5
35°	4013.1	4022.0	3796.8	3328.5	2925.4	2655.7	2872.0	2999.5	3257.3	3367.0	3319.6
37.5°	4496.2	4555.5	4457.7	3950.9	3515.2	3088.4	3135.8	3272.1	3595.2	3743.4	3642.6
40°	5177.9	5163.1	4926.0	4552.6	4167.2	3728.6	3562.6	3627.8	3998.3	4196.9	4039.8
42.5°	6093.8	6064.1	5661.1	5296.5	4866.7	4508.1	4170.2	4158.4	4460.7	4691.9	4463.6
45°	6923.7	6879.2	6603.6	6250.9	5779.6	5367.6	4911.2	4807.5	5017.9	5213.5	4946.8
47.5°	7584.6	7510.5	7314.9	7128.2	7012.6	6372.4	5687.7	5530.6	5637.3	5782.6	5406.2
50°	8367.1	8162.6	7878.1	7765.4	8005.5	7510.5	6434.6	6283.5	6277.5	6360.5	5880.4
52.5°	8722.8	8352.3	8192.2	8287.1	8710.9	8568.6	7240.8	7024.5	6938.5	6947.4	6322.0
55°	8293.0	8251.5	8337.5	8633.8	9188.1	9105.1	8014.4	7747.6	7620.2	7460.1	6745.8
57.5°	7804.0	7931.4	8272.3	8838.4	9792.7	9665.3	8776.1	8473.8	8239.7	7872.1	7217.1
60°	7353.4	7483.9	8047.0	8885.8	10124.7	10204.7	9410.4	9122.9	8776.1	8293.0	7735.8
62.5°	6668.8	6769.6	7560.9	8817.6	9979.5	10518.9	9852.0	9635.6	9312.6	8693.1	8331.5
65°	5898.2	5963.4	6745.8	8272.3	9694.9	10483.3	10216.6	10095.1	9780.9	9111.0	8921.3
67.5°	5053.5	5130.5	5782.6	7291.2	9137.7	10317.3	10560.4	10548.5	10189.9	9573.4	9348.2
70°	4081.3	4087.2	4626.7	6046.4	8165.6	9985.4	10987.2	11013.9	10581.1	9920.2	9365.9
72.5°	1953.2	2113.3	2999.5	4220.6	6636.2	9333.3	11265.8	11399.2	10827.1	9908.3	8355.2
75°	447.5	462.4	874.4	2006.6	3891.6	7163.8	10569.3	10818.2	10228.4	8568.6	5886.3
77.5°	163.0	171.9	246.0	586.9	1496.8	3701.9	7563.9	7928.4	7560.9	5539.5	2783.1
80°	109.7	106.7	127.4	260.8	687.6	1049.2	3867.9	4084.3	3728.6	1891.0	666.9
82.5°	56.3	59.3	88.9	145.2	462.4	364.6	1292.3	1404.9	1155.9	379.4	124.5
85°	26.7	26.7	50.4	91.9	195.6	127.4	287.5	346.8	311.2	166.0	41.5
87.5°	26.7	26.7	47.4	59.3	100.8	53.4	71.1	88.9	83.0	88.9	14.8
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°	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8	1988.8
2.5°	1974.0	1971.0	1968.0	1974.0	1971.0	1976.9	1976.9	1982.9	1982.9	1976.9	1974.0
5°	1947.3	1941.4	1935.4	1935.4	1932.5	1938.4	1956.2	1971.0	1974.0	1965.1	1962.1
7.5°	1950.2	1950.2	1944.3	1932.5	1911.7	1911.7	1911.7	1929.5	1938.4	1932.5	1929.5
10°	2003.6	2006.6	1991.7	1965.1	1929.5	1896.9	1834.7	1742.8	1656.8	1633.1	1624.2
12.5°	2095.5	2098.4	2068.8	2021.4	1947.3	1754.6	1517.5	1298.2	1129.2	1081.8	1072.9
15°	2205.1	2208.1	2154.8	2077.7	1852.4	1404.9	1052.2	803.2	655.0	619.5	616.5
17.5°	2317.8	2311.8	2231.8	2083.6	1570.9	995.9	640.2	512.8	474.2	465.3	468.3
20°	2427.4	2409.7	2300.0	1974.0	1209.3	652.1	468.3	438.7	429.8	423.8	423.8
22.5°	2528.2	2492.6	2356.3	1757.6	847.7	468.3	417.9	412.0	400.1	391.2	388.3
25°	2629.0	2578.6	2391.9	1476.0	569.1	409.0	394.2	382.3	367.5	355.7	352.7
27.5°	2750.5	2679.4	2374.1	1120.4	426.8	379.4	367.5	349.7	329.0	311.2	305.3
30°	2866.1	2786.1	2273.3	773.6	364.6	349.7	332.0	305.3	278.6	257.9	251.9
32.5°	3011.3	2919.4	2092.5	506.8	317.1	305.3	287.5	254.9	219.3	195.6	189.7
35°	3218.8	3115.1	1861.3	355.7	278.6	257.9	234.1	198.6	160.1	142.3	139.3
37.5°	3509.3	3370.0	1570.9	287.5	246.0	216.4	180.8	145.2	118.6	103.7	100.8
40°	3864.9	3651.5	1247.8	254.9	219.3	180.8	136.3	103.7	86.0	74.1	74.1
42.5°	4250.2	3915.3	918.8	234.1	192.7	148.2	100.8	74.1	62.2	56.3	53.4
45°	4647.4	4149.5	619.5	216.4	168.9	112.6	71.1	50.4	41.5	41.5	38.5
47.5°	5059.4	4306.6	400.1	195.6	142.3	83.0	47.4	35.6	29.6	29.6	29.6
50°	5468.4	4389.5	284.5	177.8	115.6	56.3	35.6	26.7	23.7	23.7	23.7
52.5°	5764.8	4336.2	228.2	154.1	88.9	41.5	26.7	20.7	17.8	17.8	17.8
55°	6022.7	4244.3	198.6	133.4	65.2	29.6	20.7	17.8	14.8	14.8	14.8
57.5°	6286.4	4125.8	177.8	112.6	47.4	20.7	14.8	11.9	11.9	11.9	11.9
60°	6526.5	3924.2	154.1	88.9	32.6	14.8	11.9	8.9	8.9	8.9	8.9
62.5°	6760.7	3752.3	133.4	68.2	23.7	11.9	5.9	5.9	3.0	3.0	3.0
65°	6894.0	3521.1	106.7	44.5	14.8	8.9	3.0	3.0	0.0	0.0	0.0
67.5°	6852.5	3245.5	74.1	26.7	8.9	5.9	3.0	0.0	0.0	0.0	0.0
70°	6565.0	2875.0	44.5	14.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	5498.0	2128.1	26.7	11.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
75°	3672.3	978.1	14.8	8.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1680.5	293.4	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	337.9	77.1	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.1	14.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	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)