

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: P399889

Luminaire Tested: **ARCH-L-PA3-200-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399889
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-PA3-200-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 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: 15576 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

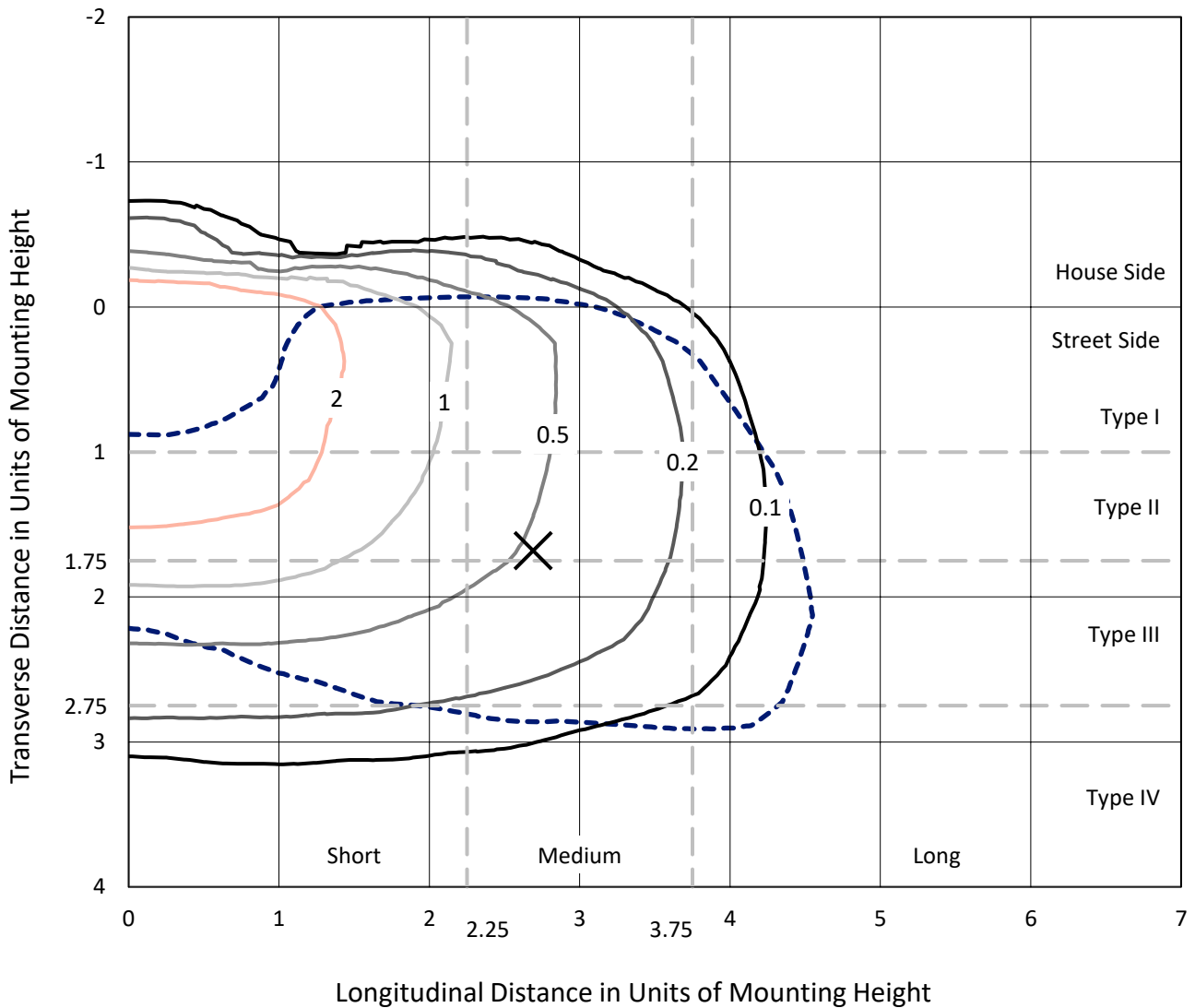
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

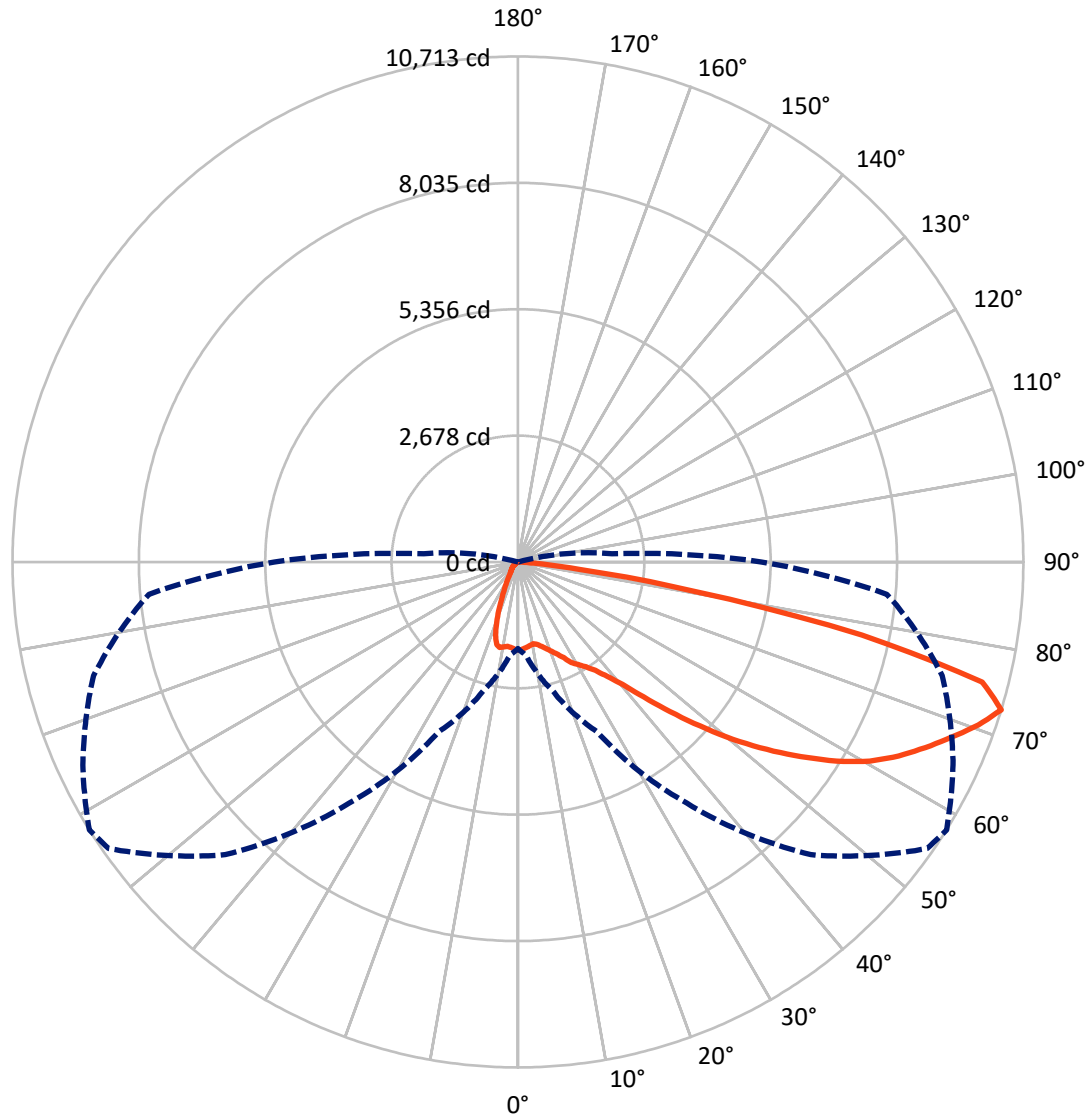
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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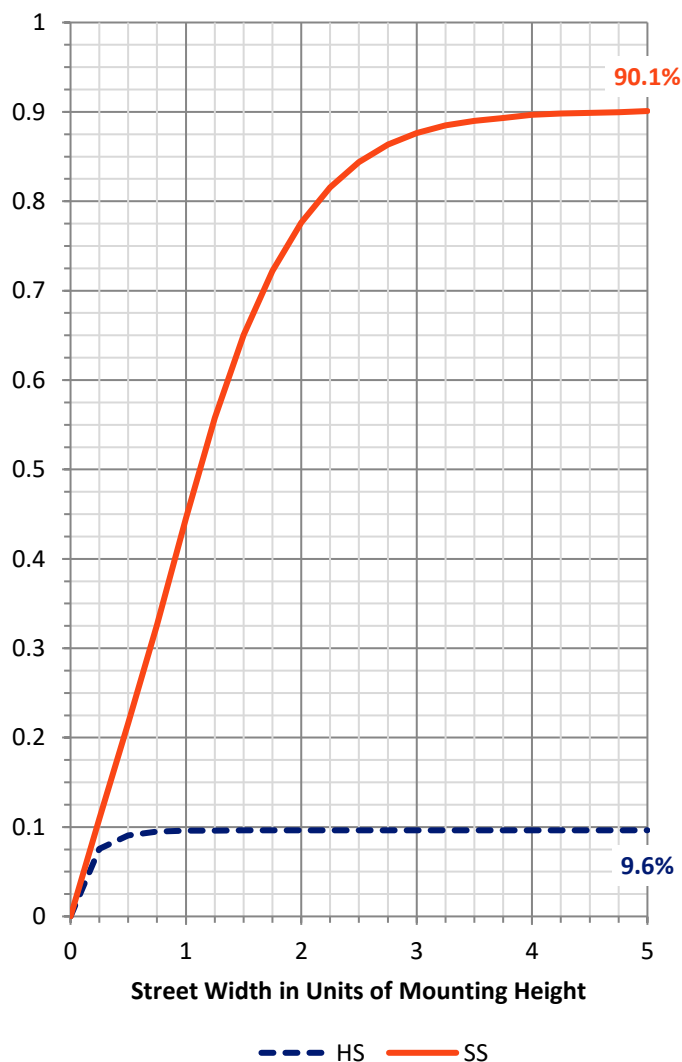
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.7	0.0	1514.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	14061.3	0.0	14061.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	15576.0	0.0	15576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.5	1.1
10°-20°	446.8	2.9
20°-30°	701.8	4.5
30°-40°	1210.4	7.8
40°-50°	2302.8	14.8
50°-60°	3646.9	23.4
60°-70°	4255.6	27.3
70°-80°	2665.3	17.1
80°-90°	174.9	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°	15576.0	100.0
0°-180°	15576.0	100.0

Coefficient of Utilization



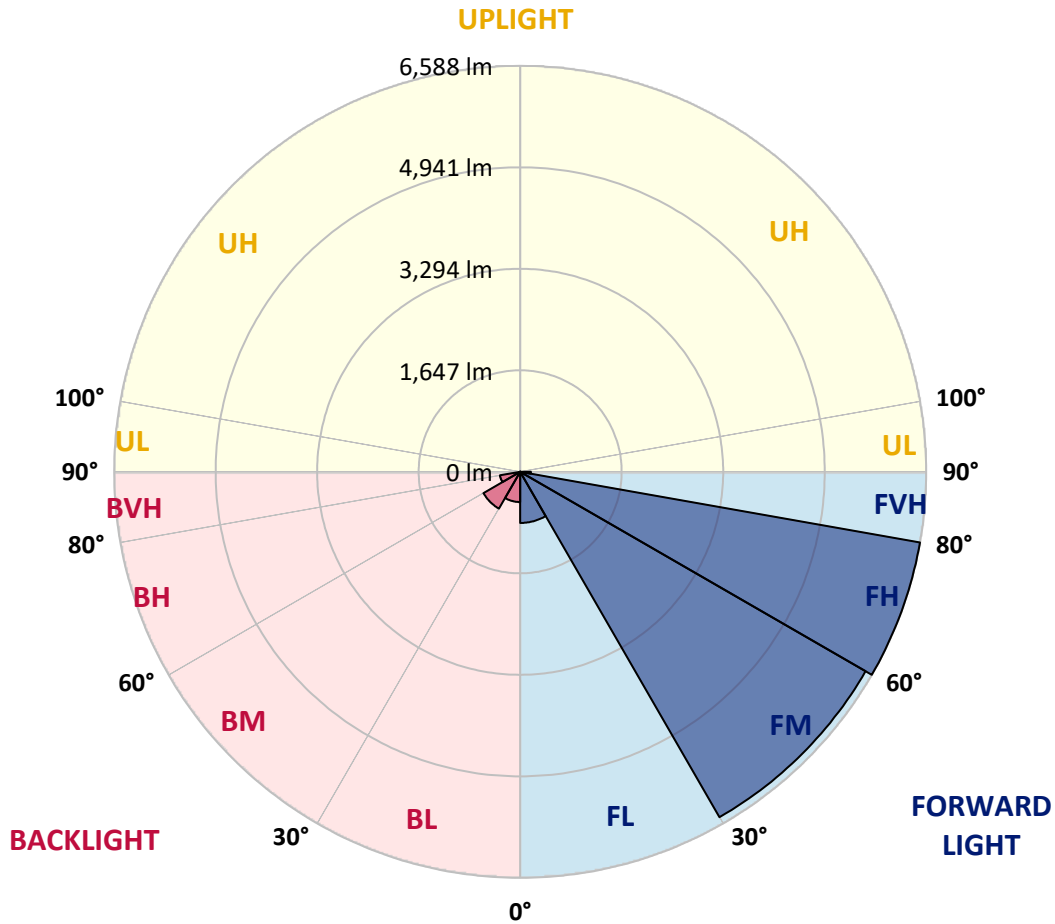
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.6	5.3			
FM (30°-60°)	6470.9	41.5			
FH (60°-80°)	6587.5	42.3			G3/7500
FVH (80°-90°)	173.3	1.1			G2/225
BL (0°-30°)	490.5	3.1	B1/500		
BM (30°-60°)	689.2	4.4	B1/1000		
BH (60°-80°)	333.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0
2.5°	1860.7	1852.3	1849.5	1846.7	1849.5	1852.3	1844.0	1852.3	1846.7	1849.5	1855.1
5°	1793.8	1785.5	1782.7	1785.5	1793.8	1807.7	1813.3	1821.7	1821.7	1830.0	1832.8
7.5°	1718.6	1713.0	1710.3	1715.8	1732.5	1763.2	1779.9	1791.0	1802.2	1818.9	1835.6
10°	1676.8	1674.0	1671.3	1679.6	1696.3	1724.2	1746.5	1763.2	1805.0	1852.3	1883.0
12.5°	1649.0	1649.0	1654.5	1671.3	1693.5	1715.8	1768.7	1791.0	1855.1	1927.5	1969.3
15°	1626.7	1626.7	1635.0	1665.7	1696.3	1749.3	1827.2	1852.3	1927.5	2016.7	2072.4
17.5°	1610.0	1615.6	1621.1	1651.8	1710.3	1799.4	1891.3	1927.5	2019.4	2116.9	2178.2
20°	1612.8	1618.3	1621.1	1651.8	1735.3	1857.9	1974.9	2016.7	2122.5	2225.6	2286.8
22.5°	1629.5	1637.8	1640.6	1682.4	1779.9	1919.2	2069.6	2116.9	2231.1	2339.8	2387.1
25°	1699.1	1704.7	1688.0	1724.2	1844.0	2013.9	2192.1	2242.3	2356.5	2456.8	2495.7
27.5°	1935.9	1941.4	1849.5	1807.7	1894.1	2091.9	2342.5	2412.2	2554.2	2621.1	2626.7
30°	2448.4	2454.0	2272.9	2075.1	2013.9	2158.7	2426.1	2523.6	2707.4	2782.6	2749.2
32.5°	3108.5	3103.0	2855.1	2562.6	2298.0	2275.7	2545.9	2648.9	2849.5	2921.9	2896.8
35°	3771.5	3779.8	3568.1	3128.0	2749.2	2495.7	2699.1	2818.9	3061.2	3164.3	3119.7
37.5°	4225.5	4281.2	4189.3	3713.0	3303.5	2902.4	2947.0	3075.1	3378.7	3518.0	3423.3
40°	4866.2	4852.2	4629.4	4278.4	3916.3	3504.1	3348.1	3409.4	3757.5	3944.2	3796.5
42.5°	5726.8	5699.0	5320.2	4977.6	4573.7	4236.6	3919.1	3908.0	4192.1	4409.3	4194.9
45°	6506.8	6465.0	6205.9	5874.5	5431.6	5044.4	4615.5	4518.0	4715.7	4899.6	4648.9
47.5°	7127.9	7058.3	6874.4	6699.0	6590.3	5988.7	5345.2	5197.6	5297.9	5434.4	5080.6
50°	7863.3	7671.1	7403.7	7297.8	7523.5	7058.3	6047.2	5905.1	5899.5	5977.5	5526.3
52.5°	8197.5	7849.3	7698.9	7788.1	8186.4	8052.7	6804.8	6601.5	6520.7	6529.1	5941.3
55°	7793.6	7754.6	7835.4	8114.0	8634.8	8556.8	7531.8	7281.1	7161.3	7010.9	6339.6
57.5°	7334.0	7453.8	7774.1	8306.2	9203.1	9083.3	8247.7	7963.6	7743.5	7398.1	6782.5
60°	6910.7	7033.2	7562.4	8350.7	9515.0	9590.2	8843.7	8573.6	8247.7	7793.6	7270.0
62.5°	6267.2	6361.9	7105.6	8286.7	9378.6	9885.5	9258.8	9055.4	8751.8	8169.7	7829.9
65°	5543.0	5604.3	6339.6	7774.1	9111.1	9852.1	9601.4	9487.2	9191.9	8562.4	8384.2
67.5°	4749.2	4821.6	5434.4	6852.2	8587.5	9696.1	9924.5	9913.4	9576.3	8996.9	8785.3
70°	3835.5	3841.1	4348.1	5682.3	7673.9	9384.1	10325.6	10350.7	9944.0	9322.8	8802.0
72.5°	1835.6	1986.0	2818.9	3966.5	6236.6	8771.3	10587.4	10712.8	10175.2	9311.7	7852.1
75°	420.6	434.5	821.7	1885.7	3657.3	6732.4	9932.9	10166.8	9612.5	8052.7	5531.9
77.5°	153.2	161.6	231.2	551.5	1406.6	3479.0	7108.4	7451.0	7105.6	5206.0	2615.5
80°	103.1	100.3	119.8	245.1	646.2	986.0	3635.0	3838.3	3504.1	1777.1	626.7
82.5°	52.9	55.7	83.6	136.5	434.5	342.6	1214.4	1320.3	1086.3	356.5	117.0
85°	25.1	25.1	47.4	86.3	183.8	119.8	270.2	325.9	292.5	156.0	39.0
87.5°	25.1	25.1	44.6	55.7	94.7	50.1	66.9	83.6	78.0	83.6	13.9
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°	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0	1869.0
2.5°	1855.1	1852.3	1849.5	1855.1	1852.3	1857.9	1857.9	1863.5	1863.5	1857.9	1855.1
5°	1830.0	1824.5	1818.9	1818.9	1816.1	1821.7	1838.4	1852.3	1855.1	1846.7	1844.0
7.5°	1832.8	1832.8	1827.2	1816.1	1796.6	1796.6	1796.6	1813.3	1821.7	1816.1	1813.3
10°	1883.0	1885.7	1871.8	1846.7	1813.3	1782.7	1724.2	1637.8	1557.1	1534.8	1526.4
12.5°	1969.3	1972.1	1944.2	1899.7	1830.0	1649.0	1426.1	1220.0	1061.2	1016.7	1008.3
15°	2072.4	2075.1	2025.0	1952.6	1740.9	1320.3	988.8	754.9	615.6	582.2	579.4
17.5°	2178.2	2172.6	2097.4	1958.2	1476.3	935.9	601.7	481.9	445.7	437.3	440.1
20°	2281.3	2264.6	2161.5	1855.1	1136.5	612.8	440.1	412.2	403.9	398.3	398.3
22.5°	2376.0	2342.5	2214.4	1651.8	796.6	440.1	392.7	387.2	376.0	367.7	364.9
25°	2470.7	2423.3	2247.8	1387.1	534.8	384.4	370.5	359.3	345.4	334.3	331.5
27.5°	2584.9	2518.0	2231.1	1052.9	401.1	356.5	345.4	328.7	309.2	292.5	286.9
30°	2693.5	2618.3	2136.4	727.0	342.6	328.7	312.0	286.9	261.8	242.3	236.8
32.5°	2830.0	2743.7	1966.5	476.3	298.0	286.9	270.2	239.5	206.1	183.8	178.3
35°	3025.0	2927.5	1749.3	334.3	261.8	242.3	220.0	186.6	150.4	133.7	130.9
37.5°	3298.0	3167.0	1476.3	270.2	231.2	203.3	169.9	136.5	111.4	97.5	94.7
40°	3632.2	3431.7	1172.7	239.5	206.1	169.9	128.1	97.5	80.8	69.6	69.6
42.5°	3994.3	3679.6	863.5	220.0	181.1	139.3	94.7	69.6	58.5	52.9	50.1
45°	4367.6	3899.6	582.2	203.3	158.8	105.8	66.9	47.4	39.0	39.0	36.2
47.5°	4754.7	4047.2	376.0	183.8	133.7	78.0	44.6	33.4	27.9	27.9	27.9
50°	5139.1	4125.2	267.4	167.1	108.6	52.9	33.4	25.1	22.3	22.3	22.3
52.5°	5417.7	4075.1	214.5	144.8	83.6	39.0	25.1	19.5	16.7	16.7	16.7
55°	5660.0	3988.7	186.6	125.3	61.3	27.9	19.5	16.7	13.9	13.9	13.9
57.5°	5907.9	3877.3	167.1	105.8	44.6	19.5	13.9	11.1	11.1	11.1	11.1
60°	6133.5	3687.9	144.8	83.6	30.6	13.9	11.1	8.4	8.4	8.4	8.4
62.5°	6353.6	3526.4	125.3	64.1	22.3	11.1	5.6	5.6	2.8	2.8	2.8
65°	6478.9	3309.1	100.3	41.8	13.9	8.4	2.8	2.8	0.0	0.0	0.0
67.5°	6439.9	3050.0	69.6	25.1	8.4	5.6	2.8	0.0	0.0	0.0	0.0
70°	6169.7	2701.9	41.8	13.9	8.4	5.6	2.8	0.0	0.0	0.0	0.0
72.5°	5167.0	1999.9	25.1	11.1	5.6	2.8	0.0	0.0	0.0	0.0	0.0
75°	3451.2	919.2	13.9	8.4	2.8	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	1579.3	275.8	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	317.5	72.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.9	13.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	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)