

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: P237192

Luminaire Tested: **ARCH-L-AF72-190-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA 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: 16449 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

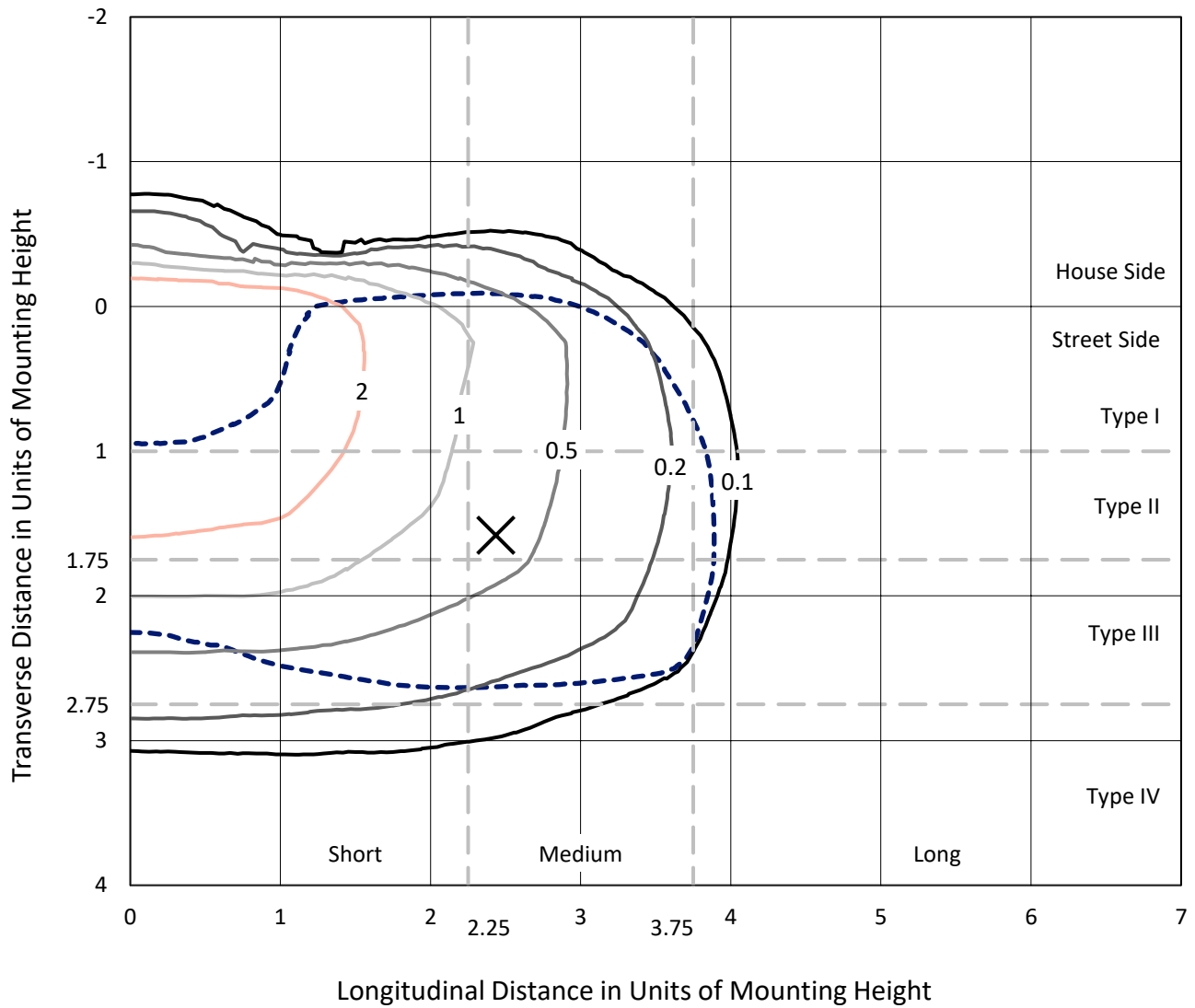
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

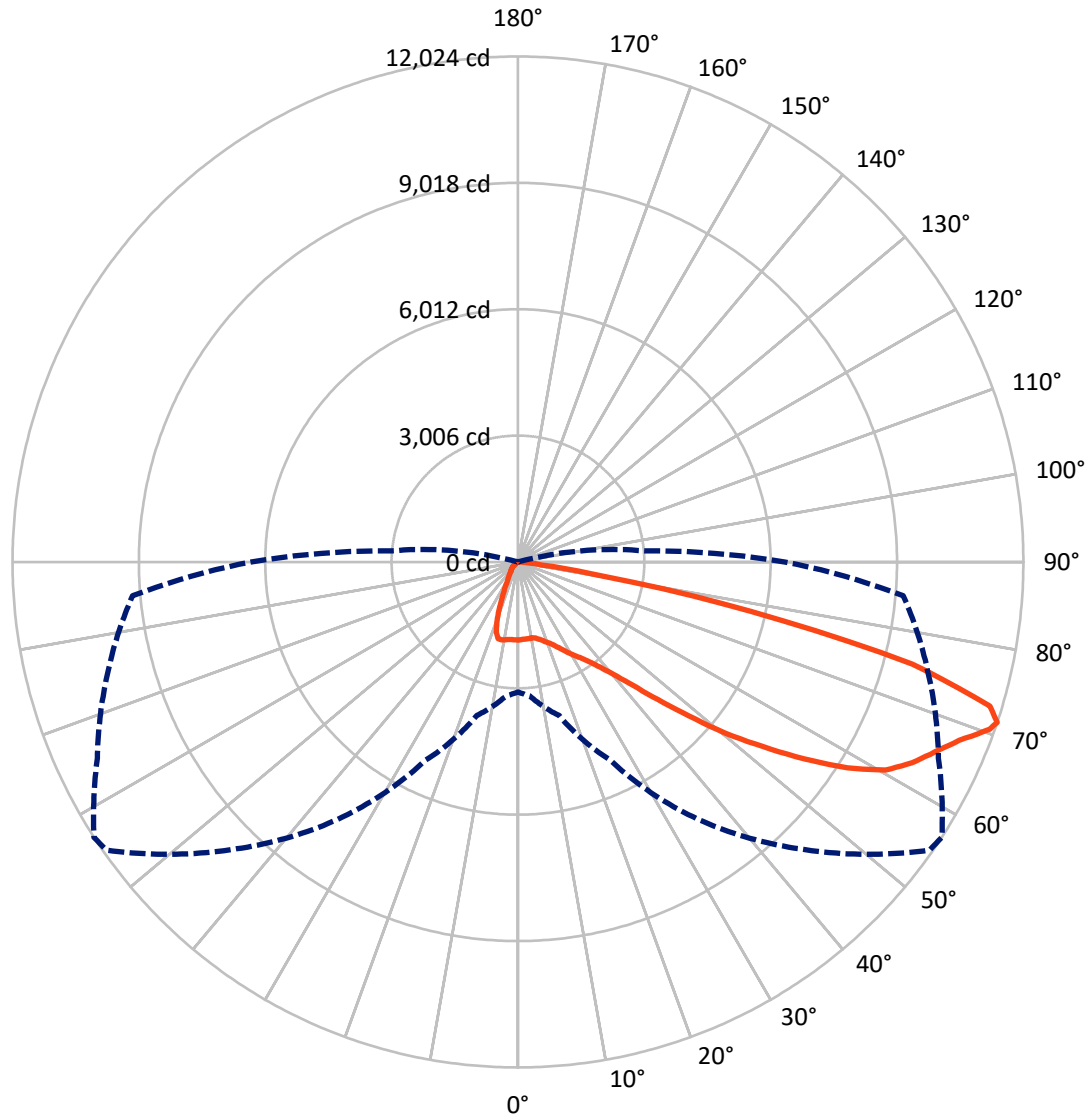
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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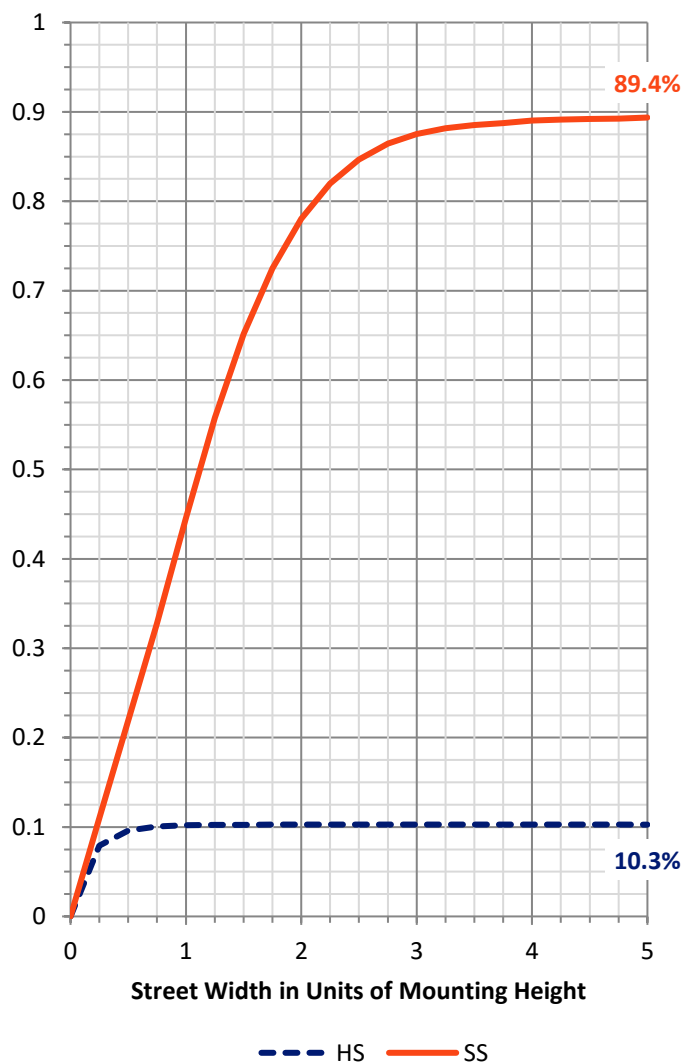
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.6	0.0	1704.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	14744.4	0.0	14744.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	16449.0	0.0	16449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.1
10°-20°	466.8	2.8
20°-30°	728.2	4.4
30°-40°	1230.8	7.5
40°-50°	2390.5	14.5
50°-60°	4014.4	24.4
60°-70°	4790.7	29.1
70°-80°	2524.8	15.3
80°-90°	128.3	0.8
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°	16449.0	100.0
0°-180°	16449.0	100.0

Coefficient of Utilization



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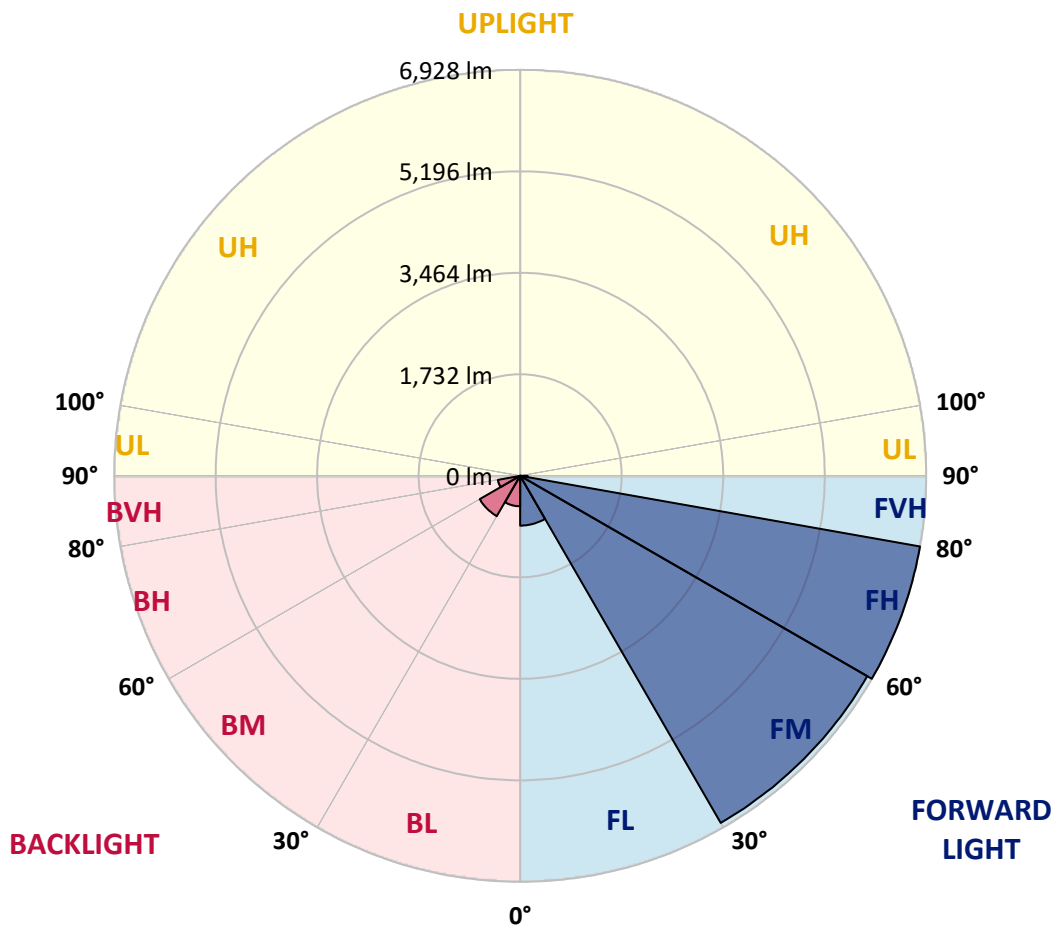
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.2	5.2			
FM (30°-60°)	6839.6	41.6			
FH (60°-80°)	6928.4	42.1			G3/7500
FVH (80°-90°)	127.1	0.8			G2/225
BL (0°-30°)	520.3	3.2	B2/1000		
BM (30°-60°)	796.0	4.8	B1/1000		
BH (60°-80°)	387.1	2.4	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: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9
2.5°	1832.2	1832.2	1832.2	1836.0	1839.8	1839.8	1847.5	1843.6	1843.6	1843.6	1851.3
5°	1782.3	1786.2	1790.0	1797.7	1812.9	1824.5	1843.6	1843.6	1847.5	1855.1	1858.9
7.5°	1713.3	1717.1	1728.7	1744.0	1774.7	1801.4	1832.2	1839.8	1851.3	1870.5	1878.1
10°	1671.1	1678.9	1694.2	1713.3	1747.8	1782.3	1820.7	1832.2	1866.7	1901.1	1920.3
12.5°	1659.6	1663.5	1678.9	1709.5	1751.7	1793.8	1843.6	1855.1	1904.9	1958.7	1989.3
15°	1678.9	1682.7	1690.4	1724.8	1774.7	1828.4	1893.5	1908.8	1970.2	2031.4	2069.8
17.5°	1713.3	1713.3	1721.1	1751.7	1805.3	1866.7	1951.0	1974.0	2042.9	2112.0	2154.1
20°	1736.3	1736.3	1747.8	1778.5	1839.8	1920.3	2019.9	2050.6	2127.3	2204.0	2242.3
22.5°	1759.3	1763.1	1774.7	1809.2	1878.1	1989.3	2104.4	2134.9	2223.1	2303.6	2342.0
25°	1824.5	1820.7	1824.5	1855.1	1935.6	2073.6	2219.3	2257.7	2349.6	2437.8	2456.9
27.5°	2004.7	1996.9	1947.1	1928.0	1989.3	2161.8	2364.9	2403.2	2510.6	2598.7	2598.7
30°	2418.6	2403.2	2280.6	2123.5	2073.6	2242.3	2502.9	2556.5	2694.6	2771.3	2748.2
32.5°	2943.7	2909.2	2752.0	2483.8	2284.4	2349.6	2648.6	2709.8	2886.2	2951.4	2901.6
35°	3518.7	3514.9	3319.3	2974.4	2690.7	2572.0	2836.4	2909.2	3131.5	3189.1	3108.5
37.5°	4128.2	4143.4	4013.1	3537.9	3204.3	2936.1	3085.5	3169.8	3442.0	3510.9	3434.3
40°	4806.6	4802.7	4752.9	4189.4	3821.5	3453.4	3445.8	3522.5	3852.2	3959.4	3852.2
42.5°	5665.1	5657.5	5477.2	4971.3	4568.9	4128.2	3970.9	3997.8	4365.8	4542.0	4384.9
45°	6539.0	6485.4	6278.4	5841.4	5485.0	4963.6	4664.8	4664.8	4979.1	5220.5	4975.2
47.5°	7025.8	6972.2	6887.8	6646.4	6539.0	5956.4	5515.6	5462.0	5707.2	5952.6	5607.6
50°	7665.9	7665.9	7455.1	7363.1	7547.1	7137.0	6454.7	6401.1	6519.8	6715.3	6263.1
52.5°	8171.8	8079.8	7930.4	8010.9	8536.0	8348.2	7393.8	7290.4	7382.3	7432.2	6834.1
55°	8382.7	8294.5	8283.1	8578.2	9390.8	9130.1	8355.8	8263.9	8256.1	8010.9	7332.5
57.5°	8424.9	8348.2	8493.9	9011.2	10222.6	9770.2	9314.2	9245.1	9030.5	8417.3	7842.2
60°	8068.4	8106.7	8459.3	9248.9	10713.1	10326.0	10122.9	10050.0	9555.6	8762.1	8409.4
62.5°	7336.3	7428.3	8087.6	9272.0	10532.9	10552.1	10571.3	10521.4	9961.8	9076.5	8980.6
65°	6470.0	6496.9	7290.4	8953.8	10218.7	10483.1	10900.9	10897.1	10272.3	9429.1	9624.5
67.5°	5331.7	5377.6	6063.8	7880.6	9590.0	10452.5	11334.0	11322.5	10624.9	9831.5	10007.8
70°	3967.1	4024.6	4580.3	6128.9	8187.3	10069.3	11901.3	11909.0	10996.7	10138.1	9743.4
71°	3093.2	3196.7	3779.3	5205.1	7470.4	9682.0	11955.0	12024.0	11038.9	10096.0	9199.1
72.5°	1517.8	1640.5	2372.6	3664.3	6148.0	8815.8	11602.4	11736.5	10774.5	9570.9	7865.2
75°	394.8	417.8	709.1	1498.7	3296.4	5841.4	9356.2	9697.5	8808.2	7286.5	4806.6
77.5°	249.1	256.8	333.5	582.6	1234.2	2219.3	5496.5	5665.1	5032.7	3691.1	1694.2
80°	176.4	180.2	210.8	375.7	720.6	647.8	1977.8	2050.6	1820.7	977.5	302.7
82.5°	107.3	107.3	153.3	241.5	444.5	352.6	521.2	555.8	490.6	272.2	99.7
85°	61.3	65.1	95.8	164.8	210.8	172.5	195.5	206.9	210.8	180.2	42.2
87.5°	49.8	53.6	84.3	138.0	114.9	84.3	84.3	88.2	92.0	107.3	19.1
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°	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9	1858.9
2.5°	1851.3	1851.3	1855.1	1851.3	1851.3	1851.3	1855.1	1855.1	1855.1	1862.9	1866.7
5°	1858.9	1858.9	1858.9	1855.1	1851.3	1851.3	1858.9	1862.9	1862.9	1874.4	1874.4
7.5°	1878.1	1878.1	1870.5	1862.9	1855.1	1843.6	1847.5	1851.3	1847.5	1851.3	1851.3
10°	1920.3	1920.3	1908.8	1893.5	1870.5	1836.0	1790.0	1732.6	1678.9	1659.6	1652.0
12.5°	1989.3	1985.5	1962.6	1935.6	1885.9	1766.9	1594.5	1391.4	1222.7	1176.7	1161.4
15°	2066.0	2058.3	2031.4	1985.5	1851.3	1537.1	1176.7	916.0	755.1	716.7	709.1
17.5°	2146.5	2134.9	2096.5	2004.7	1694.2	1142.2	759.0	574.9	486.7	479.1	482.9
20°	2230.7	2215.4	2161.8	1966.3	1368.4	762.7	490.6	444.5	436.9	436.9	440.8
22.5°	2326.5	2307.4	2234.6	1828.4	996.6	506.0	421.6	417.8	414.0	410.2	410.2
25°	2437.8	2414.7	2303.6	1579.2	686.1	414.0	402.5	390.9	383.3	375.7	371.8
27.5°	2572.0	2541.3	2357.3	1272.6	471.5	387.1	379.4	360.3	344.9	329.6	329.6
30°	2706.1	2667.8	2342.0	958.2	383.3	360.3	344.9	322.0	299.0	283.6	279.8
32.5°	2847.9	2809.6	2242.3	644.0	348.7	329.6	310.6	276.0	249.1	230.0	226.1
35°	3058.7	3028.0	2046.8	425.4	314.3	291.2	264.5	230.0	195.5	176.4	172.5
37.5°	3373.1	3334.7	1805.3	325.8	276.0	241.5	218.5	180.2	145.7	126.5	122.7
40°	3794.6	3679.7	1517.8	287.5	241.5	199.3	168.7	130.3	103.5	92.0	92.0
42.5°	4285.2	4013.1	1207.5	260.7	214.7	164.8	122.7	88.2	72.8	69.0	69.0
45°	4806.6	4323.6	896.9	241.5	187.8	130.3	88.2	61.3	53.6	49.8	49.8
47.5°	5343.1	4576.6	624.8	218.5	157.2	99.7	61.3	46.0	38.4	34.5	34.5
50°	5845.3	4741.5	440.8	195.5	134.2	72.8	46.0	34.5	26.9	26.9	26.9
52.5°	6194.0	4726.0	318.2	168.7	103.5	49.8	30.7	23.0	23.0	23.0	23.0
55°	6500.7	4668.5	249.1	145.7	80.6	34.5	23.0	19.1	19.1	15.3	15.3
57.5°	6761.3	4576.6	210.8	118.9	57.5	26.9	15.3	15.3	11.5	11.5	11.5
60°	6983.7	4461.6	176.4	99.7	38.4	19.1	11.5	7.6	7.6	3.9	7.6
62.5°	7286.5	4388.7	153.3	76.7	26.9	11.5	7.6	3.9	3.9	0.0	0.0
65°	7508.8	4250.7	130.3	53.6	15.3	7.6	3.9	3.9	0.0	0.0	0.0
67.5°	7516.4	4001.6	95.8	30.7	11.5	7.6	3.9	0.0	0.0	0.0	0.0
70°	6910.8	3411.3	61.3	15.3	7.6	3.9	3.9	0.0	0.0	0.0	0.0
71°	6355.1	3020.4	49.8	11.5	7.6	3.9	0.0	0.0	0.0	0.0	0.0
72.5°	5235.8	2219.3	38.4	11.5	3.9	3.9	0.0	0.0	0.0	0.0	0.0
75°	2886.2	804.9	19.1	7.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	923.8	245.3	11.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	157.2	38.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.6	15.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.9	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)