

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: P237226

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-7050-HSS**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T3-7050-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 575mA 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: 12982 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

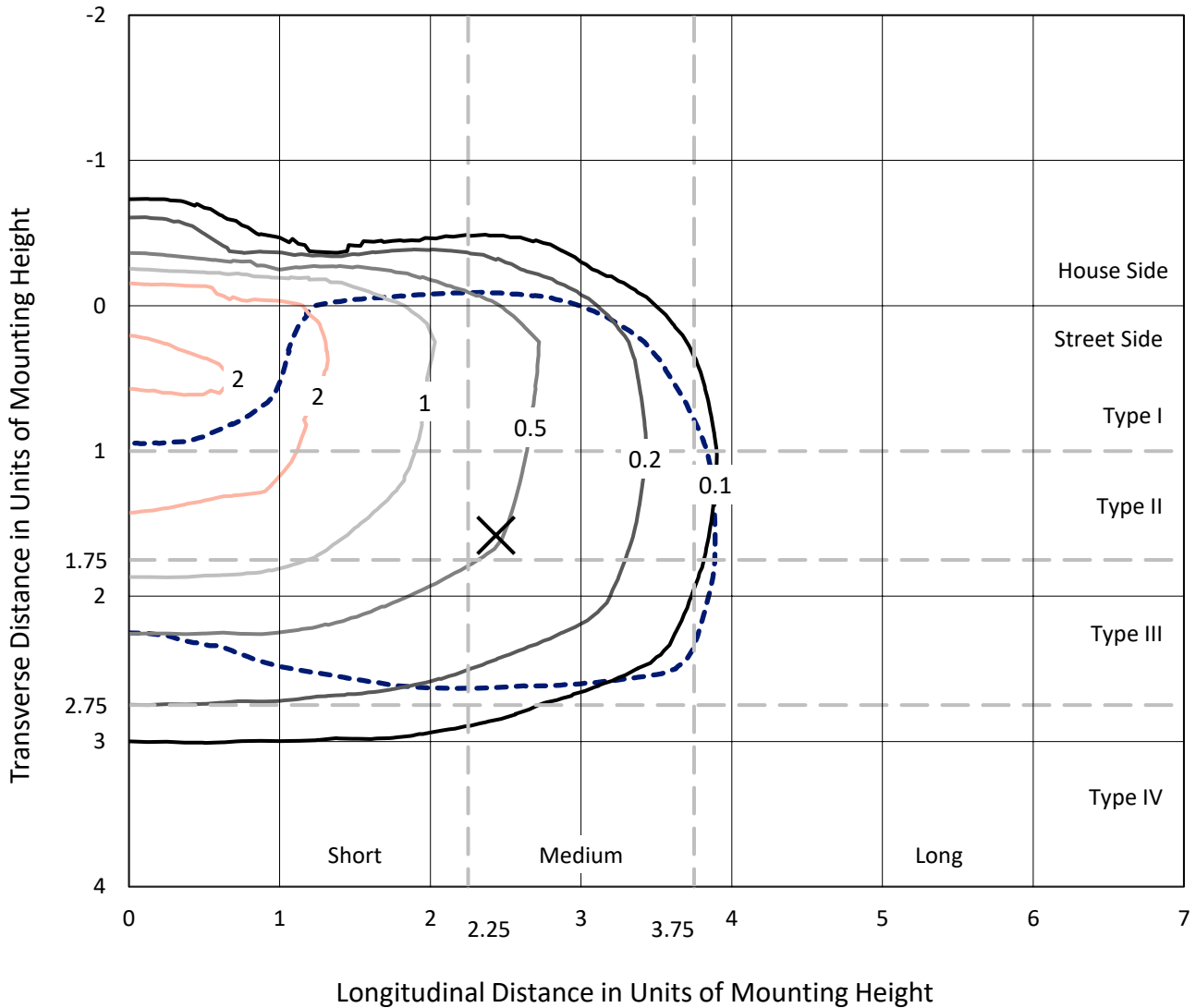
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

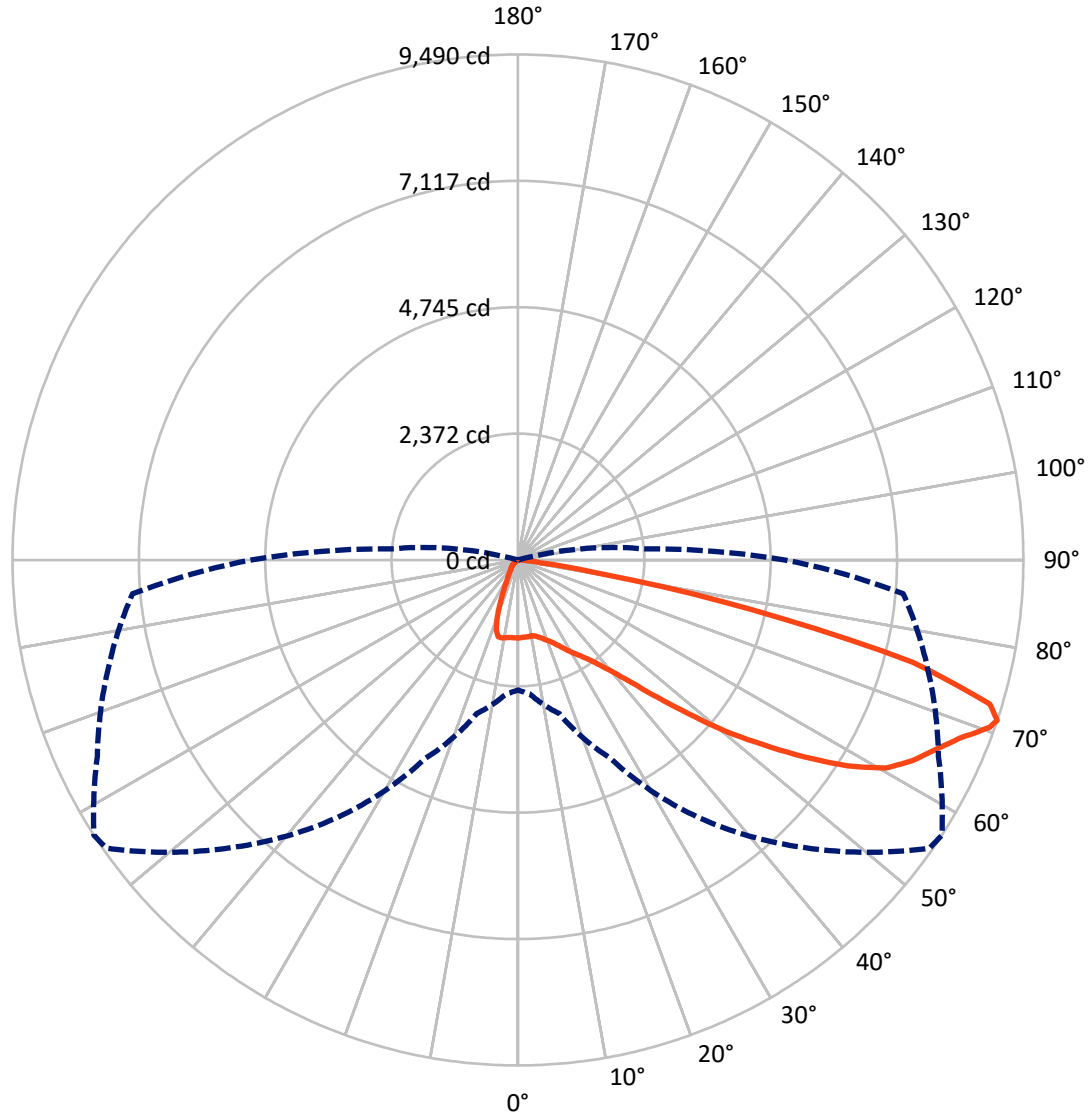
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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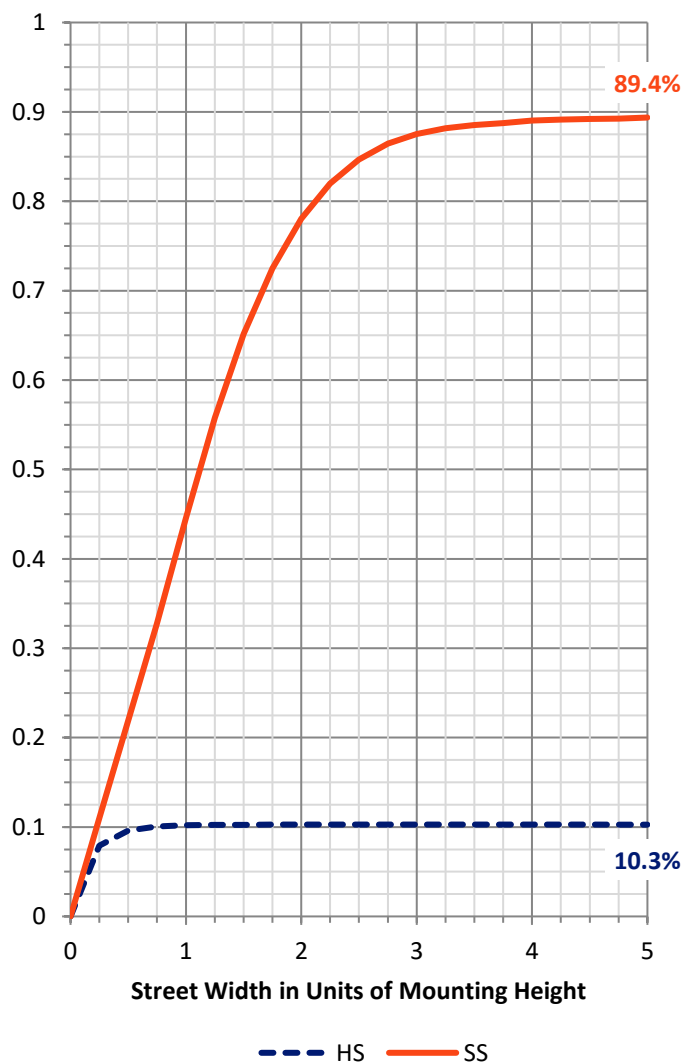
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1345.4	0.0	1345.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11636.7	0.0	11636.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	12982.0	0.0	12982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	1.1
10°-20°	368.4	2.8
20°-30°	574.7	4.4
30°-40°	971.4	7.5
40°-50°	1886.6	14.5
50°-60°	3168.2	24.4
60°-70°	3781.0	29.1
70°-80°	1992.6	15.3
80°-90°	101.3	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°	12982.0	100.0
0°-180°	12982.0	100.0

Coefficient of Utilization



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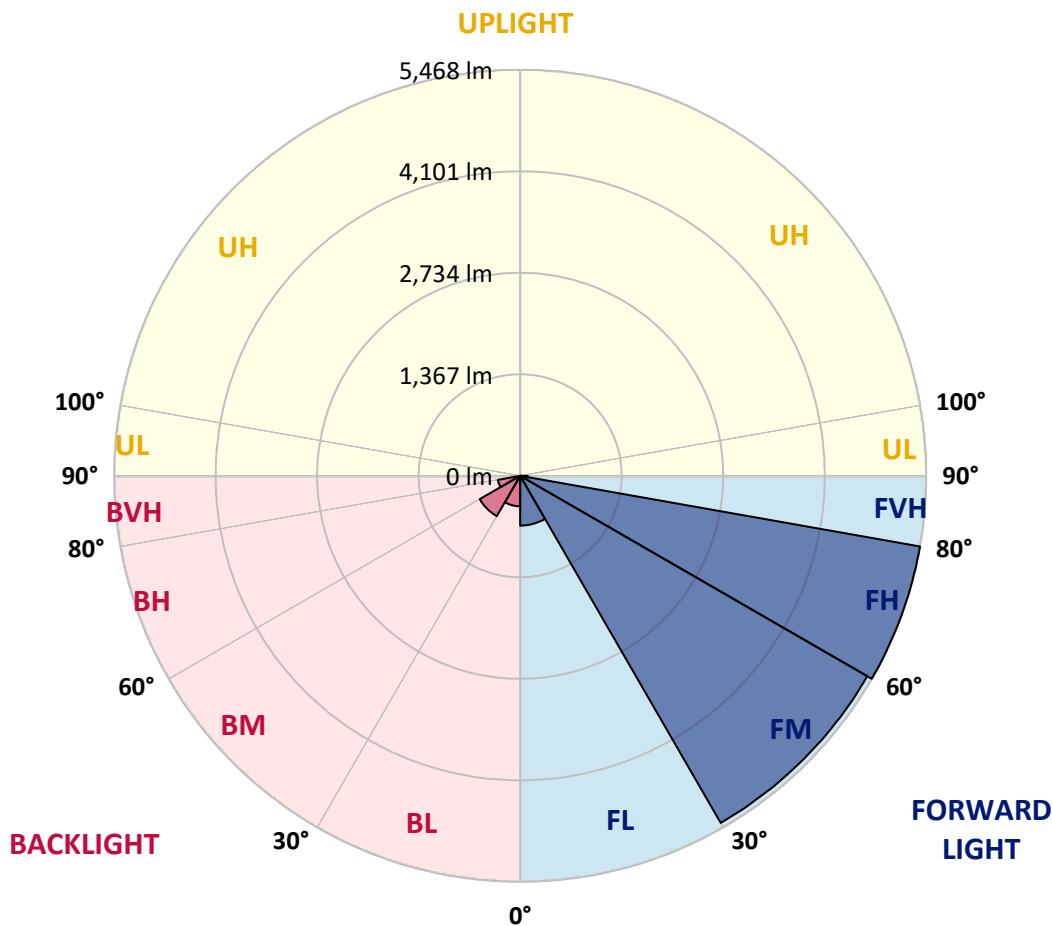
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.2	5.2			
FM (30°-60°)	5398.0	41.6			
FH (60°-80°)	5468.1	42.1			G3/7500
FVH (80°-90°)	100.3	0.8			G2/225
BL (0°-30°)	410.7	3.2	B1/500		
BM (30°-60°)	628.2	4.8	B1/1000		
BH (60°-80°)	305.5	2.4	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1446.0	1446.0	1446.0	1449.0	1452.0	1452.0	1458.1	1455.1	1455.1	1455.1	1461.1
5°	1406.7	1409.7	1412.7	1418.8	1430.9	1439.9	1455.1	1455.1	1458.1	1464.1	1467.2
7.5°	1352.2	1355.2	1364.3	1376.4	1400.6	1421.8	1446.0	1452.0	1461.1	1476.2	1482.3
10°	1318.9	1325.0	1337.1	1352.2	1379.4	1406.7	1436.9	1446.0	1473.2	1500.4	1515.6
12.5°	1309.9	1312.9	1325.0	1349.2	1382.5	1415.7	1455.1	1464.1	1503.5	1545.8	1570.0
15°	1325.0	1328.0	1334.1	1361.3	1400.6	1443.0	1494.4	1506.5	1554.9	1603.3	1633.5
17.5°	1352.2	1352.2	1358.3	1382.5	1424.8	1473.2	1539.8	1557.9	1612.4	1666.8	1700.1
20°	1370.4	1370.4	1379.4	1403.6	1452.0	1515.6	1594.2	1618.4	1678.9	1739.4	1769.7
22.5°	1388.5	1391.5	1400.6	1427.8	1482.3	1570.0	1660.8	1685.0	1754.5	1818.1	1848.3
25°	1439.9	1436.9	1439.9	1464.1	1527.7	1636.6	1751.5	1781.8	1854.4	1923.9	1939.1
27.5°	1582.1	1576.1	1536.7	1521.6	1570.0	1706.1	1866.5	1896.7	1981.4	2051.0	2051.0
30°	1908.8	1896.7	1799.9	1675.9	1636.6	1769.7	1975.4	2017.7	2126.6	2187.1	2169.0
32.5°	2323.3	2296.0	2172.0	1960.3	1802.9	1854.4	2090.3	2138.7	2277.9	2329.3	2290.0
35°	2777.0	2774.0	2619.7	2347.5	2123.6	2029.8	2238.6	2296.0	2471.5	2516.9	2453.3
37.5°	3258.0	3270.1	3167.3	2792.1	2529.0	2317.2	2435.2	2501.7	2716.5	2771.0	2710.5
40°	3793.4	3790.4	3751.1	3306.4	3016.0	2725.6	2719.5	2780.0	3040.2	3124.9	3040.2
42.5°	4471.1	4465.0	4322.8	3923.5	3605.9	3258.0	3134.0	3155.2	3445.6	3584.7	3460.7
45°	5160.8	5118.4	4955.1	4610.2	4328.9	3917.5	3681.5	3681.5	3929.6	4120.2	3926.6
47.5°	5545.0	5502.6	5436.1	5245.5	5160.8	4701.0	4353.1	4310.7	4504.3	4697.9	4425.7
50°	6050.2	6050.2	5883.8	5811.2	5956.4	5632.7	5094.2	5051.9	5145.7	5299.9	4943.0
52.5°	6449.5	6376.9	6258.9	6322.4	6736.8	6588.6	5835.4	5753.7	5826.3	5865.6	5393.7
55°	6615.8	6546.3	6537.2	6770.1	7411.4	7205.7	6594.7	6522.1	6516.0	6322.4	5787.0
57.5°	6649.1	6588.6	6703.6	7112.0	8067.9	7710.9	7350.9	7296.5	7127.1	6643.1	6189.3
60°	6367.8	6398.0	6676.3	7299.5	8455.1	8149.6	7989.2	7931.8	7541.5	6915.3	6637.0
62.5°	5790.0	5862.6	6382.9	7317.7	8312.9	8328.0	8343.2	8303.8	7862.2	7163.4	7087.8
65°	5106.3	5127.5	5753.7	7066.6	8064.9	8273.6	8603.3	8600.3	8107.2	7441.7	7596.0
67.5°	4207.9	4244.2	4785.7	6219.6	7568.7	8249.4	8945.2	8936.1	8385.5	7759.3	7898.5
70°	3131.0	3176.3	3615.0	4837.1	6461.6	7946.9	9392.9	9398.9	8678.9	8001.3	7689.7
71°	2441.2	2522.9	2982.7	4108.1	5895.9	7641.3	9435.2	9489.7	8712.2	7968.1	7260.2
72.5°	1197.9	1294.7	1872.5	2892.0	4852.2	6957.7	9156.9	9262.8	8503.5	7553.6	6207.5
75°	311.6	329.7	559.6	1182.8	2601.6	4610.2	7384.2	7653.4	6951.6	5750.7	3793.4
77.5°	196.6	202.7	263.2	459.8	974.1	1751.5	4338.0	4471.1	3971.9	2913.2	1337.1
80°	139.2	142.2	166.4	296.5	568.7	511.2	1560.9	1618.4	1436.9	771.4	239.0
82.5°	84.7	84.7	121.0	190.6	350.9	278.3	411.4	438.6	387.2	214.8	78.7
85°	48.4	51.4	75.6	130.1	166.4	136.1	154.3	163.4	166.4	142.2	33.3
87.5°	39.3	42.4	66.6	108.9	90.8	66.6	66.6	69.6	72.6	84.7	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°	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2	1467.2
2.5°	1461.1	1461.1	1464.1	1461.1	1461.1	1461.1	1464.1	1464.1	1464.1	1470.2	1473.2
5°	1467.2	1467.2	1467.2	1464.1	1461.1	1461.1	1467.2	1470.2	1470.2	1479.3	1479.3
7.5°	1482.3	1482.3	1476.2	1470.2	1464.1	1455.1	1458.1	1461.1	1458.1	1461.1	1461.1
10°	1515.6	1515.6	1506.5	1494.4	1476.2	1449.0	1412.7	1367.3	1325.0	1309.9	1303.8
12.5°	1570.0	1567.0	1548.8	1527.7	1488.3	1394.6	1258.4	1098.1	965.0	928.7	916.6
15°	1630.5	1624.5	1603.3	1567.0	1461.1	1213.1	928.7	723.0	595.9	565.7	559.6
17.5°	1694.0	1685.0	1654.7	1582.1	1337.1	901.5	599.0	453.8	384.2	378.1	381.2
20°	1760.6	1748.5	1706.1	1551.9	1080.0	602.0	387.2	350.9	344.9	344.9	347.9
22.5°	1836.2	1821.1	1763.6	1443.0	786.5	399.3	332.8	329.7	326.7	323.7	323.7
25°	1923.9	1905.8	1818.1	1246.3	541.5	326.7	317.6	308.6	302.5	296.5	293.4
27.5°	2029.8	2005.6	1860.4	1004.3	372.1	305.5	299.5	284.4	272.3	260.2	260.2
30°	2135.7	2105.5	1848.3	756.3	302.5	284.4	272.3	254.1	236.0	223.9	220.8
32.5°	2247.6	2217.4	1769.7	508.2	275.3	260.2	245.0	217.8	196.6	181.5	178.5
35°	2414.0	2389.8	1615.4	335.8	248.1	229.9	208.7	181.5	154.3	139.2	136.1
37.5°	2662.1	2631.8	1424.8	257.1	217.8	190.6	172.4	142.2	115.0	99.8	96.8
40°	2994.8	2904.1	1197.9	226.9	190.6	157.3	133.1	102.9	81.7	72.6	72.6
42.5°	3382.0	3167.3	952.9	205.7	169.4	130.1	96.8	69.6	57.5	54.5	54.5
45°	3793.4	3412.3	707.9	190.6	148.2	102.9	69.6	48.4	42.4	39.3	39.3
47.5°	4217.0	3611.9	493.1	172.4	124.0	78.7	48.4	36.3	30.3	27.2	27.2
50°	4613.2	3742.0	347.9	154.3	105.9	57.5	36.3	27.2	21.2	21.2	21.2
52.5°	4888.5	3729.9	251.1	133.1	81.7	39.3	24.2	18.2	18.2	18.2	18.2
55°	5130.5	3684.5	196.6	115.0	63.5	27.2	18.2	15.1	15.1	12.1	12.1
57.5°	5336.2	3611.9	166.4	93.8	45.4	21.2	12.1	12.1	9.1	9.1	9.1
60°	5511.7	3521.2	139.2	78.7	30.3	15.1	9.1	6.1	6.1	3.0	6.1
62.5°	5750.7	3463.7	121.0	60.5	21.2	9.1	6.1	3.0	3.0	0.0	0.0
65°	5926.1	3354.8	102.9	42.4	12.1	6.1	3.0	3.0	0.0	0.0	0.0
67.5°	5932.2	3158.2	75.6	24.2	9.1	6.1	3.0	0.0	0.0	0.0	0.0
70°	5454.2	2692.3	48.4	12.1	6.1	3.0	3.0	0.0	0.0	0.0	0.0
71°	5015.6	2383.8	39.3	9.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	4132.3	1751.5	30.3	9.1	3.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	2277.9	635.3	15.1	6.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	729.0	193.6	9.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.0	30.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	42.4	12.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	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)