

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: P572687

Luminaire Tested: **ARCH-S-PA2-100-750-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-750-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13858 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

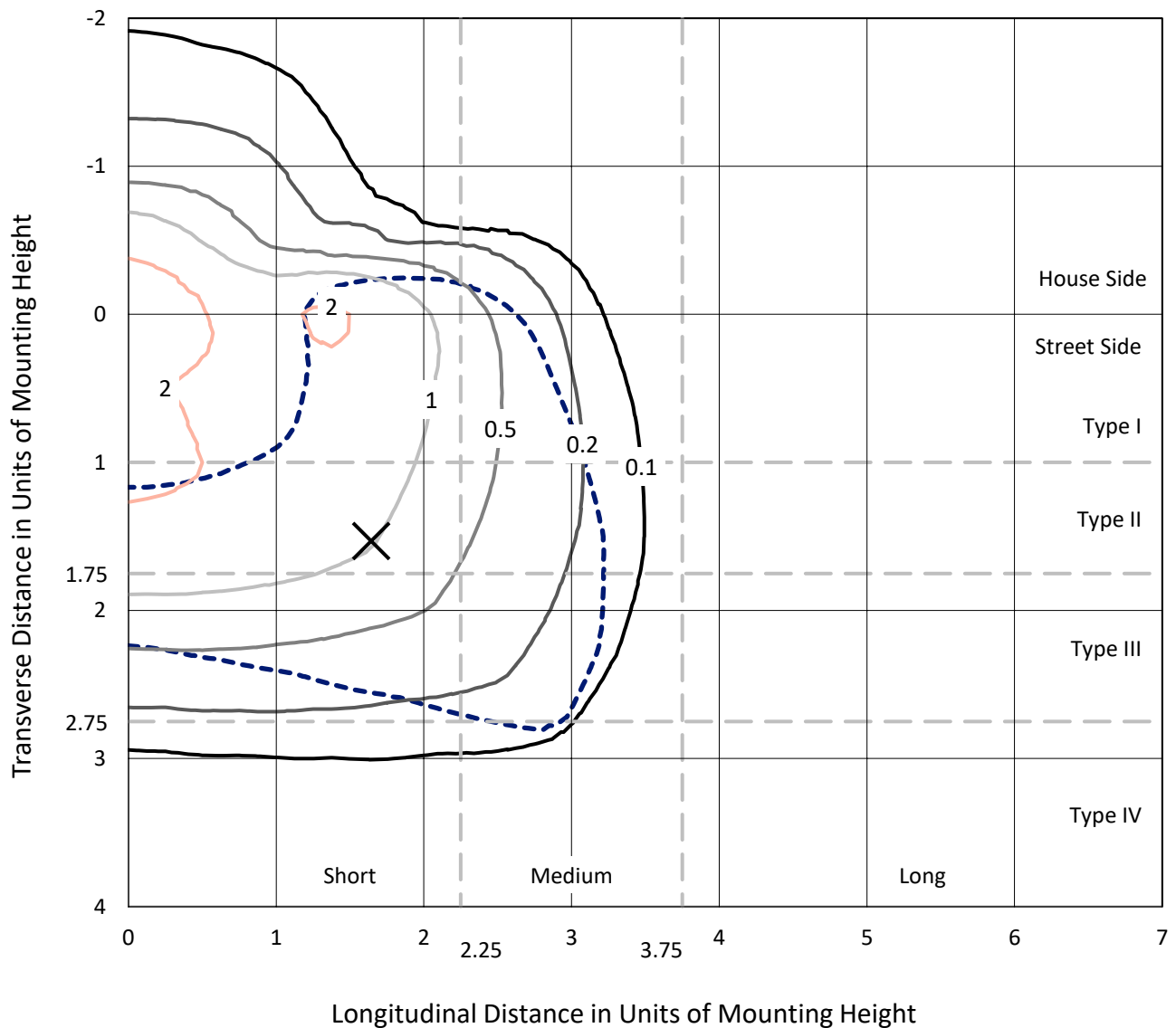
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

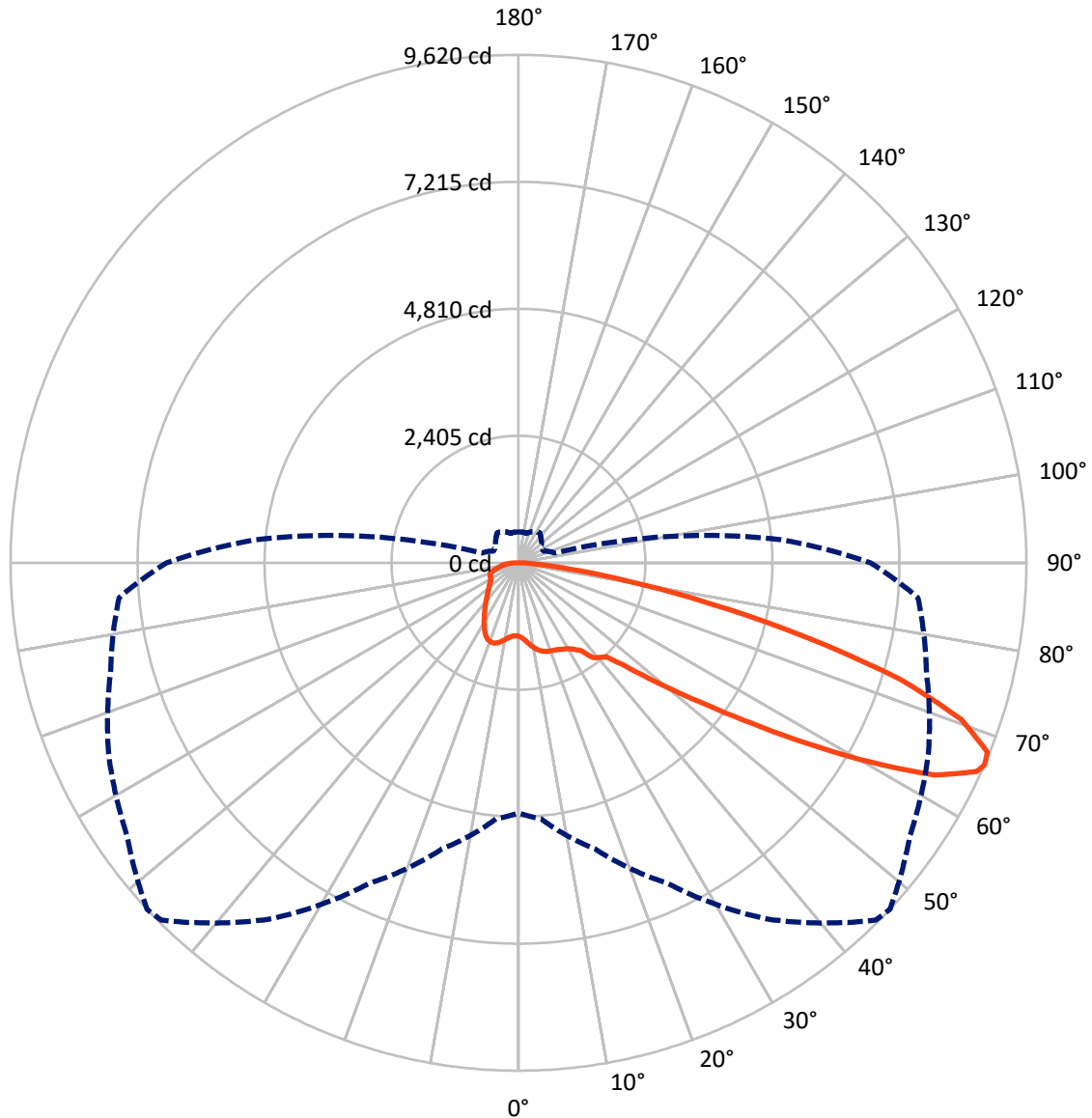
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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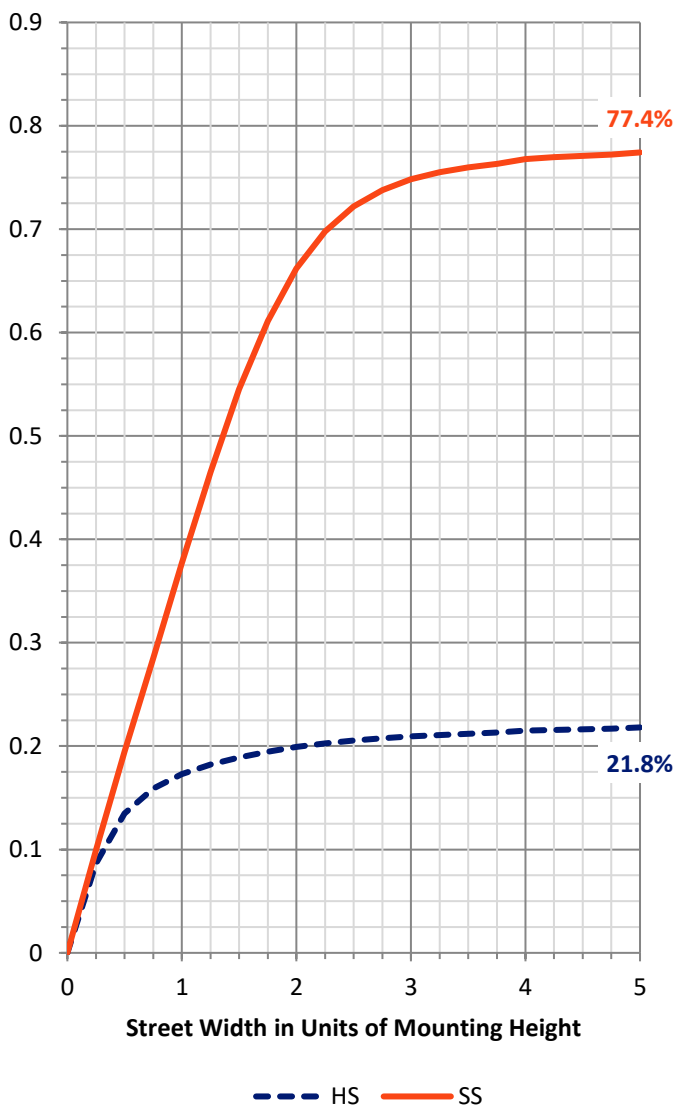
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3081.0	0.0	3081.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	10776.9	0.0	10776.9
	% Fixture	77.8	0.0	77.8
Total	Lumens	13858.0	0.0	13858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.0
10°-20°	465.1	3.4
20°-30°	775.7	5.6
30°-40°	1126.5	8.1
40°-50°	1722.9	12.4
50°-60°	3256.6	23.5
60°-70°	4208.0	30.4
70°-80°	1891.5	13.6
80°-90°	269.8	1.9
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°	13858.0	100.0
0°-180°	13858.0	100.0

Coefficient of Utilization

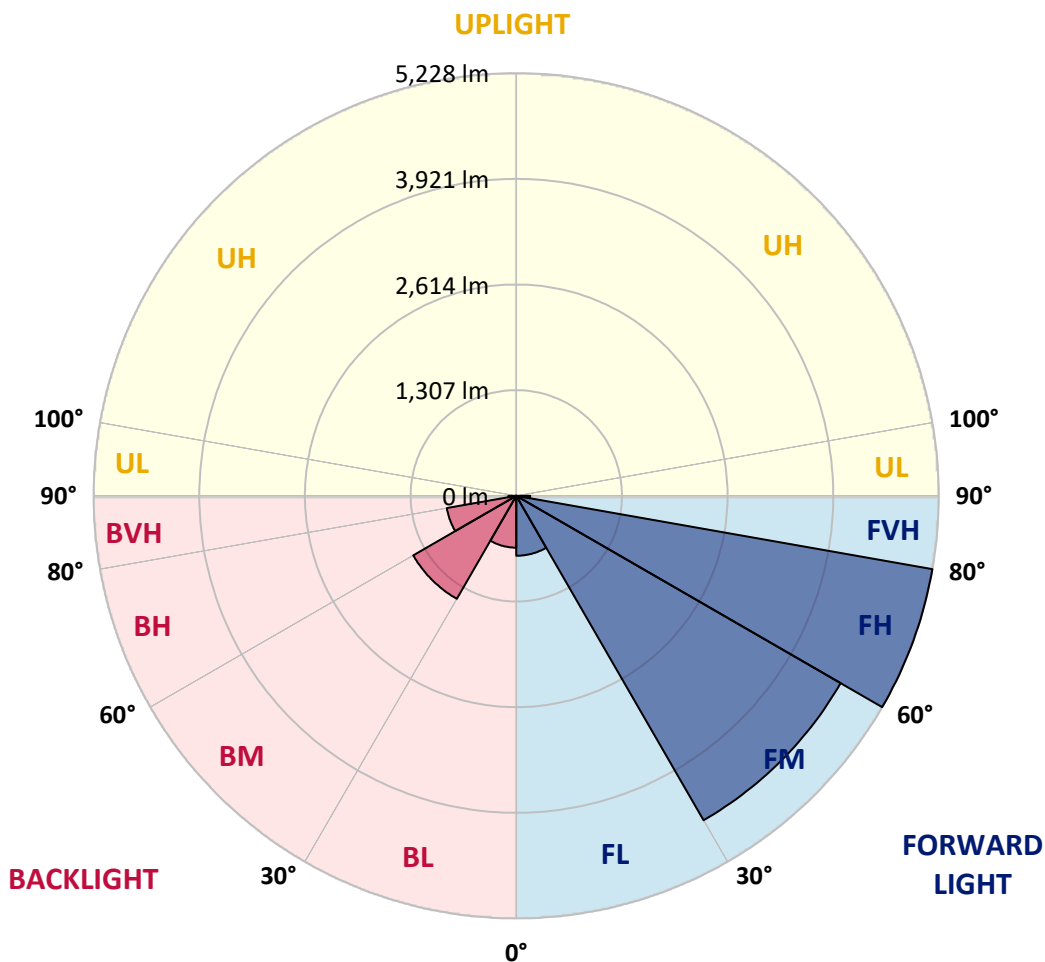


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.4	5.4			
FM (30°-60°)	4634.4	33.4			
FH (60°-80°)	5227.8	37.7			G3/7500
FVH (80°-90°)	173.4	1.3			G2/225
BL (0°-30°)	641.2	4.6	B2/1000		
BM (30°-60°)	1471.7	10.6	B2/2500		
BH (60°-80°)	871.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	96.4	0.7			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2
2.5°	1472.2	1460.9	1453.4	1449.6	1442.1	1427.0	1427.0	1423.3	1408.2	1400.7	1396.9
5°	1588.9	1581.4	1562.6	1547.5	1524.9	1494.8	1491.0	1468.5	1438.3	1415.7	1400.7
7.5°	1701.9	1694.4	1675.5	1653.0	1615.3	1577.6	1566.4	1536.2	1487.3	1453.4	1427.0
10°	1799.8	1788.5	1765.9	1735.8	1694.4	1653.0	1641.7	1607.8	1558.8	1509.9	1464.7
12.5°	1863.8	1856.3	1829.9	1792.3	1747.1	1705.7	1698.1	1668.0	1619.1	1566.4	1509.9
15°	1893.9	1890.2	1860.0	1822.4	1777.2	1743.3	1739.6	1713.2	1671.8	1619.1	1555.1
17.5°	1886.4	1882.6	1856.3	1818.6	1784.7	1765.9	1765.9	1747.1	1713.2	1668.0	1600.2
20°	1848.7	1848.7	1826.2	1799.8	1781.0	1777.2	1777.2	1773.4	1750.9	1713.2	1645.4
22.5°	1811.1	1811.1	1796.0	1777.2	1773.4	1788.5	1792.3	1799.8	1792.3	1762.1	1701.9
25°	1818.6	1814.9	1796.0	1773.4	1777.2	1811.1	1818.6	1837.5	1833.7	1811.1	1758.4
27.5°	1901.5	1897.7	1848.7	1803.6	1799.8	1841.2	1848.7	1875.1	1875.1	1856.3	1822.4
30°	2108.6	2116.1	2025.7	1912.8	1856.3	1882.6	1890.2	1920.3	1935.3	1942.9	1916.5
32.5°	2424.8	2413.5	2278.0	2093.5	1969.2	1942.9	1954.2	1980.5	2033.2	2048.3	1984.3
35°	2744.9	2752.4	2620.6	2387.2	2150.0	2052.1	2044.5	2082.2	2161.3	2093.5	1980.5
37.5°	3042.3	3031.0	2876.7	2624.4	2387.2	2274.2	2278.0	2262.9	2195.2	2059.6	2006.9
40°	3366.2	3336.0	3208.0	2884.2	2583.0	2394.7	2360.8	2232.8	2176.3	2119.8	2112.3
42.5°	3686.2	3690.0	3584.5	3264.5	2816.4	2481.3	2428.6	2296.8	2334.5	2323.2	2315.6
45°	4089.1	4089.1	3983.7	3686.2	3185.4	2805.1	2733.6	2575.4	2635.7	2680.9	2771.2
47.5°	4458.1	4435.5	4405.4	4153.1	3667.4	3226.8	3196.7	3016.0	3174.1	3313.4	3497.9
50°	4849.7	4819.5	4800.7	4646.3	4299.9	3866.9	3776.6	3588.3	3934.7	4194.5	4537.2
52.5°	5459.6	5406.9	5309.0	5222.4	5086.9	4586.1	4473.1	4333.8	4781.9	5109.5	5809.8
55°	6009.4	5964.2	5870.1	5934.1	5915.2	5459.6	5361.7	5230.0	5715.7	6114.8	6916.8
57.5°	6212.7	6216.5	6344.5	6687.1	6867.9	6604.3	6465.0	6333.2	6743.6	6928.1	7651.0
60°	6306.8	6295.5	6626.9	7184.1	7771.5	7850.6	7673.6	7402.5	7556.9	7568.2	8272.3
62.5°	6103.5	6133.6	6589.2	7391.2	8313.7	8882.3	8855.9	8381.5	8238.4	8080.3	8438.0
65°	5331.6	5373.0	6043.3	7022.2	8400.3	9507.3	9533.7	8980.2	8581.1	8140.5	7967.3
66°	4744.2	4868.5	5614.0	6702.2	8242.2	9571.3	9620.3	9044.2	8566.0	7997.4	7594.6
67.5°	3979.9	3972.4	4804.5	5998.1	7801.6	9514.8	9578.9	8953.8	8362.7	7575.7	6849.0
70°	2436.1	2511.4	3226.8	4476.9	6457.4	8810.7	8897.3	8317.5	7485.4	6416.0	5064.3
72.5°	1250.1	1374.3	1845.0	2910.6	4687.8	7282.0	7575.7	6984.6	6118.6	4642.6	3091.3
75°	662.7	655.2	869.8	1577.6	2993.4	5463.4	5617.8	5237.5	4228.4	2767.5	1573.9
77.5°	353.9	372.8	455.6	809.5	1645.4	3490.4	3686.2	3377.4	2409.8	1415.7	753.1
80°	241.0	252.3	308.8	455.6	892.4	1893.9	2074.7	1799.8	1261.4	670.2	353.9
82.5°	154.4	161.9	210.9	282.4	534.7	918.7	967.7	922.5	617.5	380.3	214.6
85°	94.1	97.9	128.0	180.7	335.1	372.8	387.8	391.6	346.4	248.5	116.7
87.5°	45.2	48.9	71.5	90.4	158.1	135.5	124.3	128.0	192.0	146.8	52.7
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°	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2
2.5°	1393.2	1389.4	1381.9	1378.1	1381.9	1381.9	1381.9	1385.6	1393.2	1393.2	1396.9
5°	1393.2	1385.6	1378.1	1378.1	1385.6	1393.2	1400.7	1415.7	1423.3	1427.0	1427.0
7.5°	1412.0	1404.4	1396.9	1396.9	1408.2	1423.3	1438.3	1457.2	1476.0	1491.0	1491.0
10°	1449.6	1438.3	1430.8	1434.6	1453.4	1472.2	1491.0	1513.6	1532.5	1551.3	1551.3
12.5°	1491.0	1479.8	1468.5	1476.0	1502.3	1524.9	1543.8	1555.1	1573.9	1588.9	1588.9
15°	1532.5	1513.6	1509.9	1524.9	1551.3	1566.4	1573.9	1573.9	1581.4	1596.5	1596.5
17.5°	1577.6	1558.8	1555.1	1570.1	1592.7	1592.7	1577.6	1566.4	1562.6	1573.9	1577.6
20°	1622.8	1604.0	1604.0	1615.3	1611.5	1585.2	1558.8	1540.0	1524.9	1536.2	1540.0
22.5°	1679.3	1660.5	1653.0	1637.9	1604.0	1551.3	1509.9	1487.3	1476.0	1483.5	1491.0
25°	1735.8	1720.7	1701.9	1649.2	1570.1	1487.3	1434.6	1415.7	1419.5	1434.6	1442.1
27.5°	1807.3	1799.8	1754.6	1641.7	1509.9	1396.9	1344.2	1340.4	1355.5	1378.1	1389.4
30°	1893.9	1882.6	1803.6	1619.1	1427.0	1291.5	1253.8	1261.4	1284.0	1302.8	1314.1
32.5°	1954.2	1946.6	1826.2	1566.4	1325.4	1197.4	1167.2	1167.2	1178.5	1204.9	1216.2
35°	1973.0	2003.1	1841.2	1487.3	1204.9	1114.5	1084.4	1065.6	1065.6	1088.2	1095.7
37.5°	2037.0	2104.8	1848.7	1381.9	1107.0	1039.2	1001.6	967.7	956.4	952.6	952.6
40°	2183.9	2262.9	1845.0	1246.3	1012.9	963.9	918.7	881.1	851.0	809.5	813.3
42.5°	2439.9	2500.1	1833.7	1103.2	930.0	896.1	851.0	805.8	756.8	711.6	707.9
45°	2933.1	2842.8	1803.6	979.0	854.7	835.9	794.5	741.8	681.5	640.1	640.1
47.5°	3712.6	3464.0	1784.7	862.2	786.9	783.2	745.5	689.0	628.8	598.7	594.9
50°	4781.9	4322.5	1814.9	779.4	726.7	738.0	707.9	655.2	606.2	579.9	576.1
52.5°	6009.4	5245.0	1848.7	726.7	681.5	704.1	689.0	640.1	591.1	568.6	564.8
55°	6958.2	5994.3	1799.8	677.7	636.3	670.2	670.2	625.0	583.6	561.0	561.0
57.5°	7624.7	6295.5	1630.4	632.6	598.7	640.1	651.4	617.5	579.9	572.3	572.3
60°	7910.8	6280.5	1332.9	591.1	572.3	610.0	640.1	610.0	587.4	606.2	610.0
62.5°	7756.5	5952.9	1035.4	561.0	553.5	602.4	651.4	640.1	613.7	628.8	636.3
65°	7059.9	5376.8	779.4	534.7	530.9	606.2	681.5	658.9	594.9	598.7	602.4
66°	6668.3	4989.0	715.4	527.1	523.4	610.0	696.6	651.4	579.9	587.4	583.6
67.5°	5832.4	4379.0	628.8	512.1	508.3	610.0	715.4	636.3	561.0	572.3	561.0
70°	4277.3	3098.8	538.4	493.3	485.7	598.7	711.6	606.2	519.6	512.1	493.3
72.5°	2481.3	1875.1	478.2	470.7	451.8	527.1	666.5	557.3	474.4	451.8	433.0
75°	1219.9	952.6	425.5	444.3	395.4	463.1	602.4	515.8	436.8	406.6	395.4
77.5°	561.0	482.0	384.1	406.6	350.2	399.1	549.7	470.7	387.8	342.6	331.3
80°	305.0	301.2	323.8	338.9	293.7	350.2	485.7	410.4	327.6	278.6	263.6
82.5°	188.3	192.0	237.2	259.8	229.7	305.0	429.2	342.6	248.5	195.8	199.6
85°	97.9	109.2	158.1	173.2	150.6	225.9	323.8	229.7	139.3	101.7	101.7
87.5°	33.9	45.2	79.1	94.1	82.8	135.5	203.3	109.2	30.1	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)