

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: P572660

Luminaire Tested: **ARCH-S-PA2-100-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572660
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-PA2-100-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 12621 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

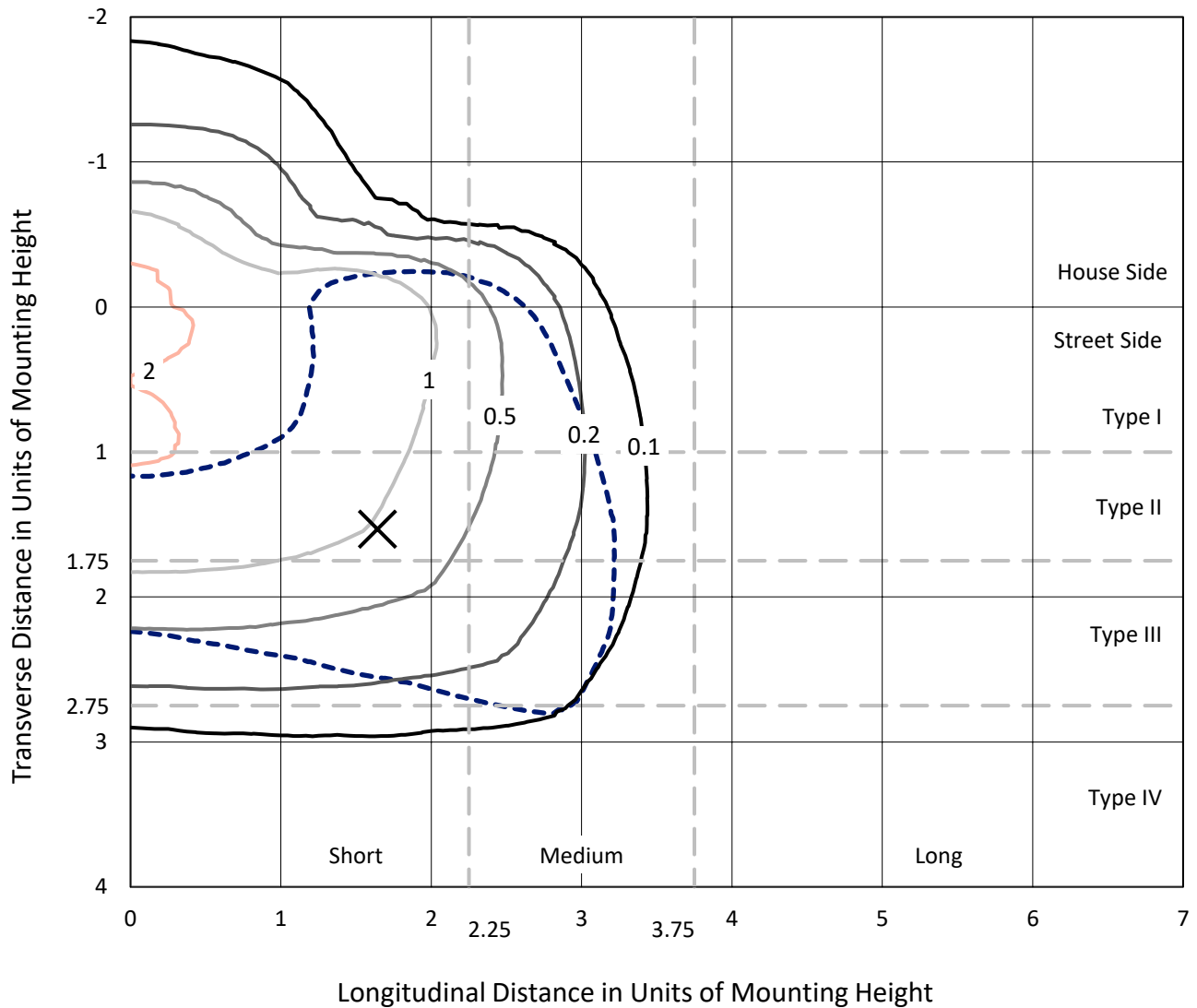
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

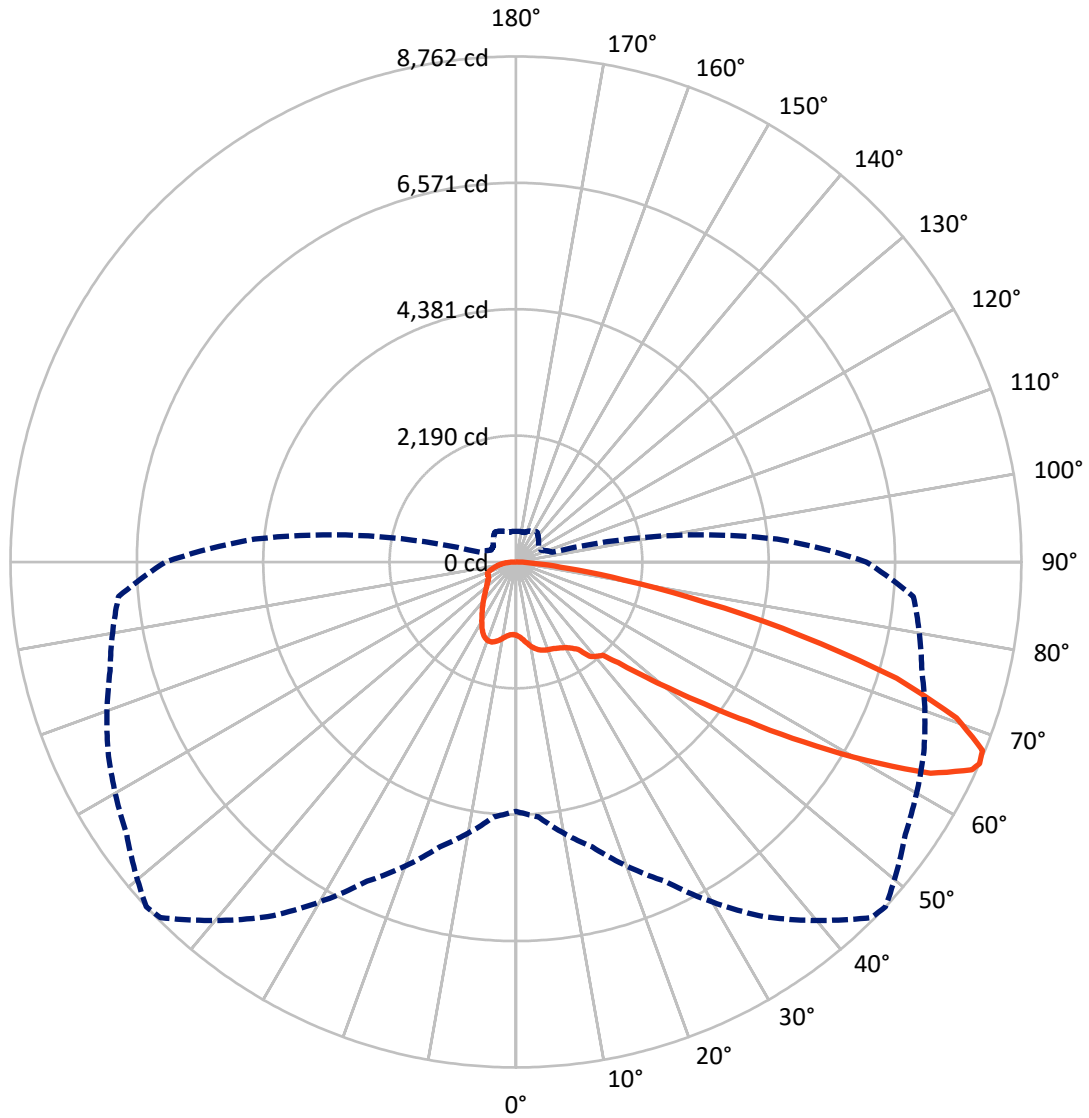
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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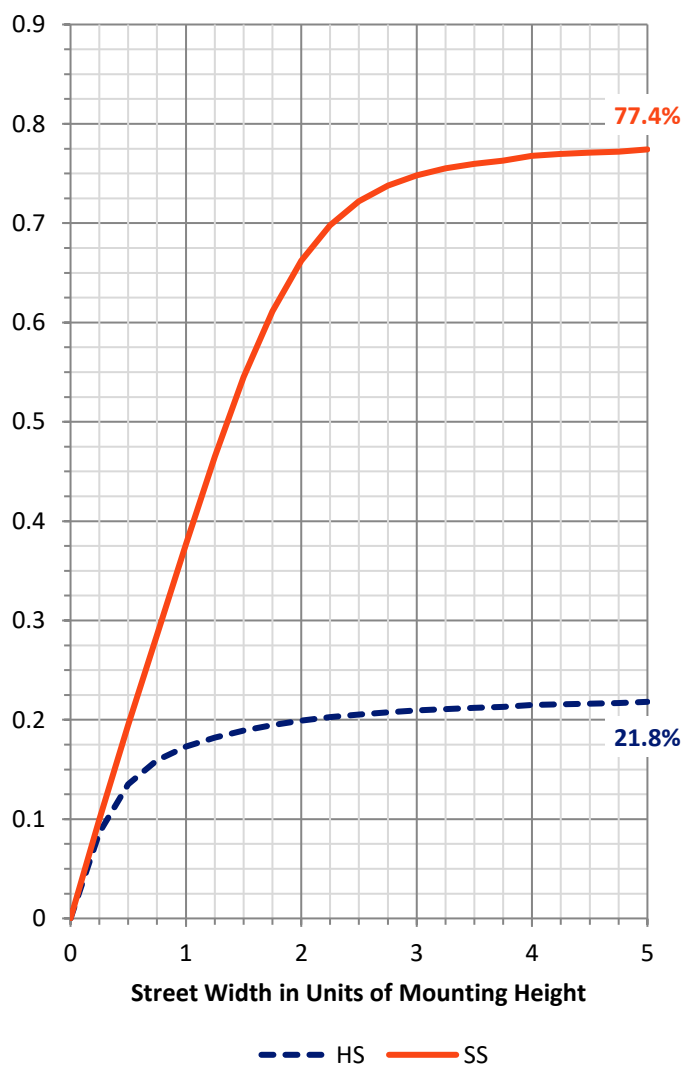
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2806.0	0.0	2806.0
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9815.0	0.0	9815.0
	% Fixture	77.8	0.0	77.8
Total	Lumens	12621.0	0.0	12621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.0
10°-20°	423.6	3.4
20°-30°	706.5	5.6
30°-40°	1026.0	8.1
40°-50°	1569.1	12.4
50°-60°	2966.0	23.5
60°-70°	3832.4	30.4
70°-80°	1722.7	13.6
80°-90°	245.7	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°	12621.0	100.0
0°-180°	12621.0	100.0

Coefficient of Utilization

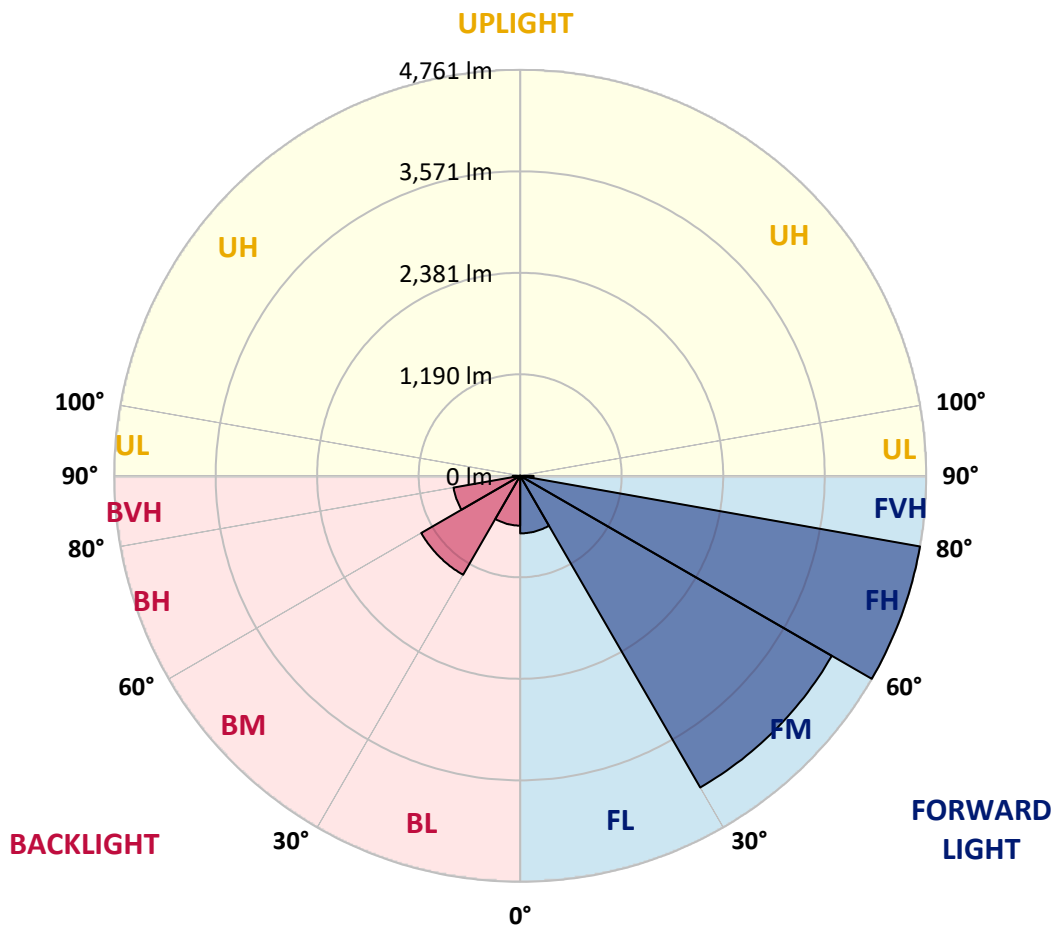


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.3	5.4			
FM (30°-60°)	4220.7	33.4			
FH (60°-80°)	4761.1	37.7			G2/5000
FVH (80°-90°)	157.9	1.3			G2/225
BL (0°-30°)	583.9	4.6	B2/1000		
BM (30°-60°)	1340.3	10.6	B2/2500		
BH (60°-80°)	794.0	6.3	B2/1000		G2/1000
BVH (80°-90°)	87.8	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-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8
2.5°	1340.8	1330.5	1323.7	1320.2	1313.4	1299.7	1299.7	1296.2	1282.5	1275.7	1272.2
5°	1447.1	1440.3	1423.1	1409.4	1388.8	1361.4	1358.0	1337.4	1309.9	1289.4	1275.7
7.5°	1550.0	1543.1	1526.0	1505.4	1471.1	1436.8	1426.5	1399.1	1354.5	1323.7	1299.7
10°	1639.1	1628.9	1608.3	1580.8	1543.1	1505.4	1495.1	1464.3	1419.7	1375.1	1333.9
12.5°	1697.4	1690.6	1666.6	1632.3	1591.1	1553.4	1546.6	1519.1	1474.5	1426.5	1375.1
15°	1724.9	1721.4	1694.0	1659.7	1618.6	1587.7	1584.3	1560.3	1522.6	1474.5	1416.2
17.5°	1718.0	1714.6	1690.6	1656.3	1625.4	1608.3	1608.3	1591.1	1560.3	1519.1	1457.4
20°	1683.7	1683.7	1663.1	1639.1	1622.0	1618.6	1618.6	1615.1	1594.6	1560.3	1498.5
22.5°	1649.4	1649.4	1635.7	1618.6	1615.1	1628.9	1632.3	1639.1	1632.3	1604.9	1550.0
25°	1656.3	1652.9	1635.7	1615.1	1618.6	1649.4	1656.3	1673.4	1670.0	1649.4	1601.4
27.5°	1731.7	1728.3	1683.7	1642.6	1639.1	1676.9	1683.7	1707.7	1707.7	1690.6	1659.7
30°	1920.3	1927.2	1844.9	1742.0	1690.6	1714.6	1721.4	1748.9	1762.6	1769.5	1745.4
32.5°	2208.4	2198.1	2074.7	1906.6	1793.5	1769.5	1779.7	1803.7	1851.8	1865.5	1807.2
35°	2499.9	2506.7	2386.7	2174.1	1958.1	1868.9	1862.0	1896.3	1968.3	1906.6	1803.7
37.5°	2770.8	2760.5	2619.9	2390.1	2174.1	2071.2	2074.7	2060.9	1999.2	1875.8	1827.7
40°	3065.7	3038.2	2921.7	2626.7	2352.4	2181.0	2150.1	2033.5	1982.1	1930.6	1923.8
42.5°	3357.2	3360.6	3264.6	2973.1	2565.0	2259.8	2211.8	2091.8	2126.1	2115.8	2108.9
45°	3724.1	3724.1	3628.1	3357.2	2901.1	2554.7	2489.6	2345.6	2400.4	2441.6	2523.9
47.5°	4060.1	4039.6	4012.1	3782.4	3340.0	2938.8	2911.4	2746.8	2890.8	3017.7	3185.7
50°	4416.8	4389.3	4372.2	4231.6	3916.1	3521.8	3439.5	3268.0	3583.5	3820.1	4132.2
52.5°	4972.3	4924.3	4835.1	4756.3	4632.8	4176.7	4073.9	3947.0	4355.1	4653.4	5291.2
55°	5473.0	5431.8	5346.1	5404.4	5387.2	4972.3	4883.1	4763.1	5205.5	5569.0	6299.4
57.5°	5658.1	5661.6	5778.2	6090.2	6254.8	6014.8	5887.9	5767.9	6141.7	6309.7	6968.1
60°	5743.9	5733.6	6035.3	6542.9	7077.8	7149.8	6988.7	6741.8	6882.4	6892.6	7533.9
62.5°	5558.7	5586.1	6001.1	6731.5	7571.6	8089.4	8065.4	7633.3	7503.0	7359.0	7684.8
65°	4855.7	4893.4	5503.8	6395.4	7650.5	8658.7	8682.7	8178.6	7815.1	7413.9	7256.1
66°	4320.8	4433.9	5112.9	6103.9	7506.5	8717.0	8761.5	8236.9	7801.4	7283.6	6916.6
67.5°	3624.6	3617.8	4375.6	5462.7	7105.2	8665.5	8723.8	8154.6	7616.2	6899.5	6237.7
70°	2218.7	2287.3	2938.8	4077.3	5881.0	8024.3	8103.1	7575.0	6817.2	5843.3	4612.2
72.5°	1138.5	1251.6	1680.3	2650.8	4269.3	6632.0	6899.5	6361.1	5572.4	4228.2	2815.4
75°	603.5	596.7	792.1	1436.8	2726.2	4975.7	5116.3	4770.0	3851.0	2520.4	1433.4
77.5°	322.3	339.5	414.9	737.3	1498.5	3178.8	3357.2	3076.0	2194.7	1289.4	685.8
80°	219.5	229.8	281.2	414.9	812.7	1724.9	1889.5	1639.1	1148.8	610.4	322.3
82.5°	140.6	147.5	192.0	257.2	486.9	836.7	881.3	840.1	562.4	346.3	195.5
85°	85.7	89.2	116.6	164.6	305.2	339.5	353.2	356.6	315.5	226.3	106.3
87.5°	41.2	44.6	65.2	82.3	144.0	123.5	113.2	116.6	174.9	133.7	48.0
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°	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8	1268.8
2.5°	1268.8	1265.4	1258.5	1255.1	1258.5	1258.5	1258.5	1261.9	1268.8	1268.8	1272.2
5°	1268.8	1261.9	1255.1	1255.1	1261.9	1268.8	1275.7	1289.4	1296.2	1299.7	1299.7
7.5°	1285.9	1279.1	1272.2	1272.2	1282.5	1296.2	1309.9	1327.1	1344.2	1358.0	1358.0
10°	1320.2	1309.9	1303.1	1306.5	1323.7	1340.8	1358.0	1378.5	1395.7	1412.8	1412.8
12.5°	1358.0	1347.7	1337.4	1344.2	1368.2	1388.8	1406.0	1416.2	1433.4	1447.1	1447.1
15°	1395.7	1378.5	1375.1	1388.8	1412.8	1426.5	1433.4	1433.4	1440.3	1454.0	1454.0
17.5°	1436.8	1419.7	1416.2	1430.0	1450.5	1450.5	1436.8	1426.5	1423.1	1433.4	1436.8
20°	1478.0	1460.8	1460.8	1471.1	1467.7	1443.7	1419.7	1402.5	1388.8	1399.1	1402.5
22.5°	1529.4	1512.3	1505.4	1491.7	1460.8	1412.8	1375.1	1354.5	1344.2	1351.1	1358.0
25°	1580.8	1567.1	1550.0	1502.0	1430.0	1354.5	1306.5	1289.4	1292.8	1306.5	1313.4
27.5°	1646.0	1639.1	1598.0	1495.1	1375.1	1272.2	1224.2	1220.8	1234.5	1255.1	1265.4
30°	1724.9	1714.6	1642.6	1474.5	1299.7	1176.2	1141.9	1148.8	1169.3	1186.5	1196.8
32.5°	1779.7	1772.9	1663.1	1426.5	1207.1	1090.5	1063.0	1063.0	1073.3	1097.3	1107.6
35°	1796.9	1824.3	1676.9	1354.5	1097.3	1015.0	987.6	970.5	970.5	991.0	997.9
37.5°	1855.2	1916.9	1683.7	1258.5	1008.2	946.5	912.2	881.3	871.0	867.6	867.6
40°	1988.9	2060.9	1680.3	1135.1	922.4	877.9	836.7	802.4	775.0	737.3	740.7
42.5°	2222.1	2277.0	1670.0	1004.7	847.0	816.1	775.0	733.8	689.3	648.1	644.7
45°	2671.3	2589.0	1642.6	891.6	778.4	761.3	723.6	675.5	620.7	583.0	583.0
47.5°	3381.2	3154.8	1625.4	785.3	716.7	713.3	679.0	627.5	572.7	545.2	541.8
50°	4355.1	3936.7	1652.9	709.8	661.8	672.1	644.7	596.7	552.1	528.1	524.7
52.5°	5473.0	4776.8	1683.7	661.8	620.7	641.3	627.5	583.0	538.4	517.8	514.4
55°	6337.1	5459.2	1639.1	617.3	579.5	610.4	610.4	569.2	531.5	510.9	510.9
57.5°	6944.1	5733.6	1484.8	576.1	545.2	583.0	593.2	562.4	528.1	521.2	521.2
60°	7204.7	5719.9	1213.9	538.4	521.2	555.5	583.0	555.5	535.0	552.1	555.5
62.5°	7064.1	5421.5	943.0	510.9	504.1	548.7	593.2	583.0	559.0	572.7	579.5
65°	6429.7	4896.9	709.8	486.9	483.5	552.1	620.7	600.1	541.8	545.2	548.7
66°	6073.1	4543.7	651.5	480.1	476.7	555.5	634.4	593.2	528.1	535.0	531.5
67.5°	5311.8	3988.1	572.7	466.4	462.9	555.5	651.5	579.5	510.9	521.2	510.9
70°	3895.5	2822.2	490.4	449.2	442.4	545.2	648.1	552.1	473.2	466.4	449.2
72.5°	2259.8	1707.7	435.5	428.6	411.5	480.1	607.0	507.5	432.1	411.5	394.4
75°	1111.1	867.6	387.5	404.6	360.1	421.8	548.7	469.8	397.8	370.4	360.1
77.5°	510.9	438.9	349.8	370.4	318.9	363.5	500.7	428.6	353.2	312.1	301.8
80°	277.8	274.3	294.9	308.6	267.5	318.9	442.4	373.8	298.3	253.8	240.0
82.5°	171.5	174.9	216.0	236.6	209.2	277.8	390.9	312.1	226.3	178.3	181.7
85°	89.2	99.4	144.0	157.7	137.2	205.8	294.9	209.2	126.9	92.6	92.6
87.5°	30.9	41.2	72.0	85.7	75.4	123.5	185.2	99.4	27.4	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)