

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: P572876

Luminaire Tested: **ARCH-S-PA2-120-830-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572876
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-PA2-120-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12379 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

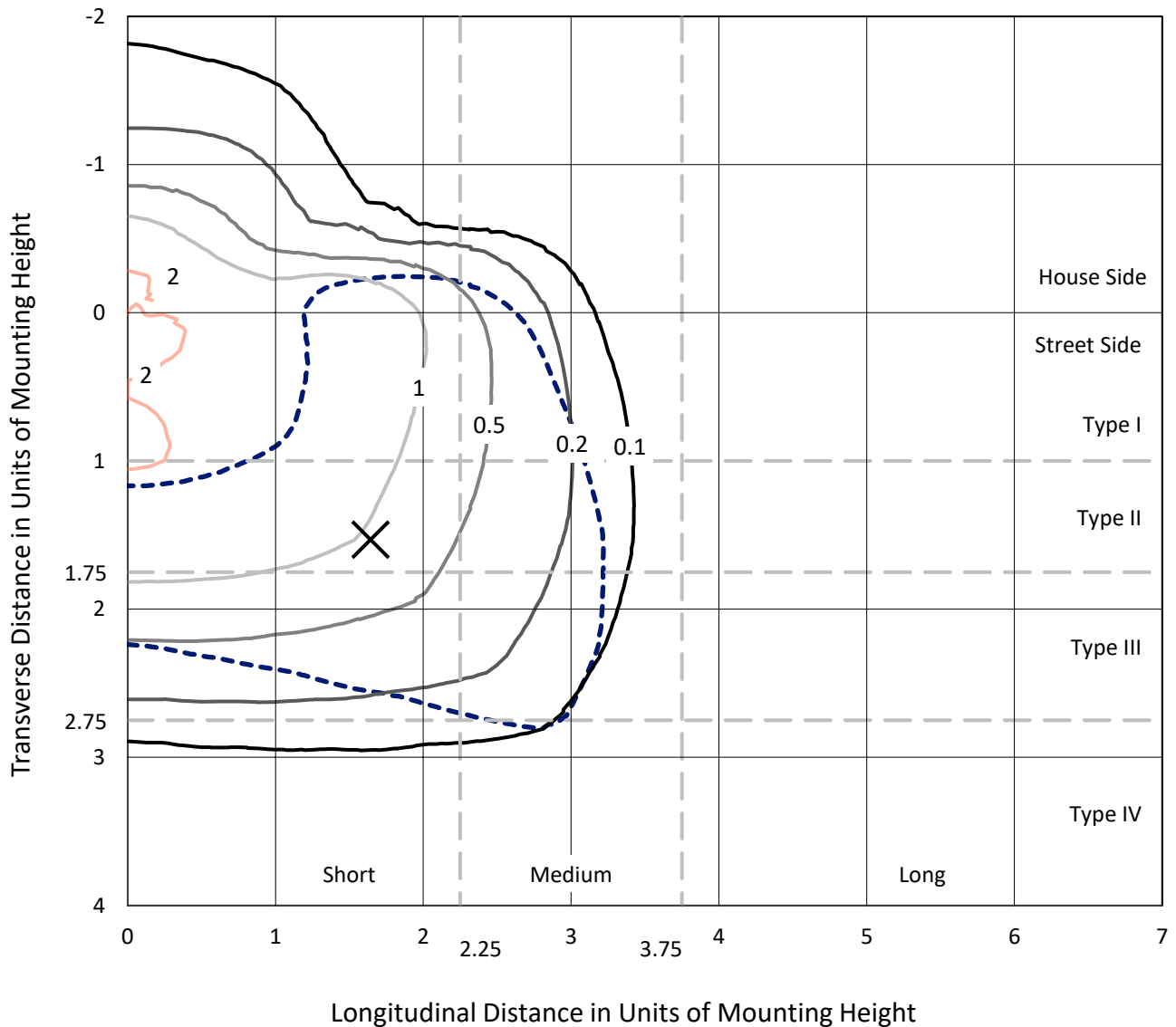
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

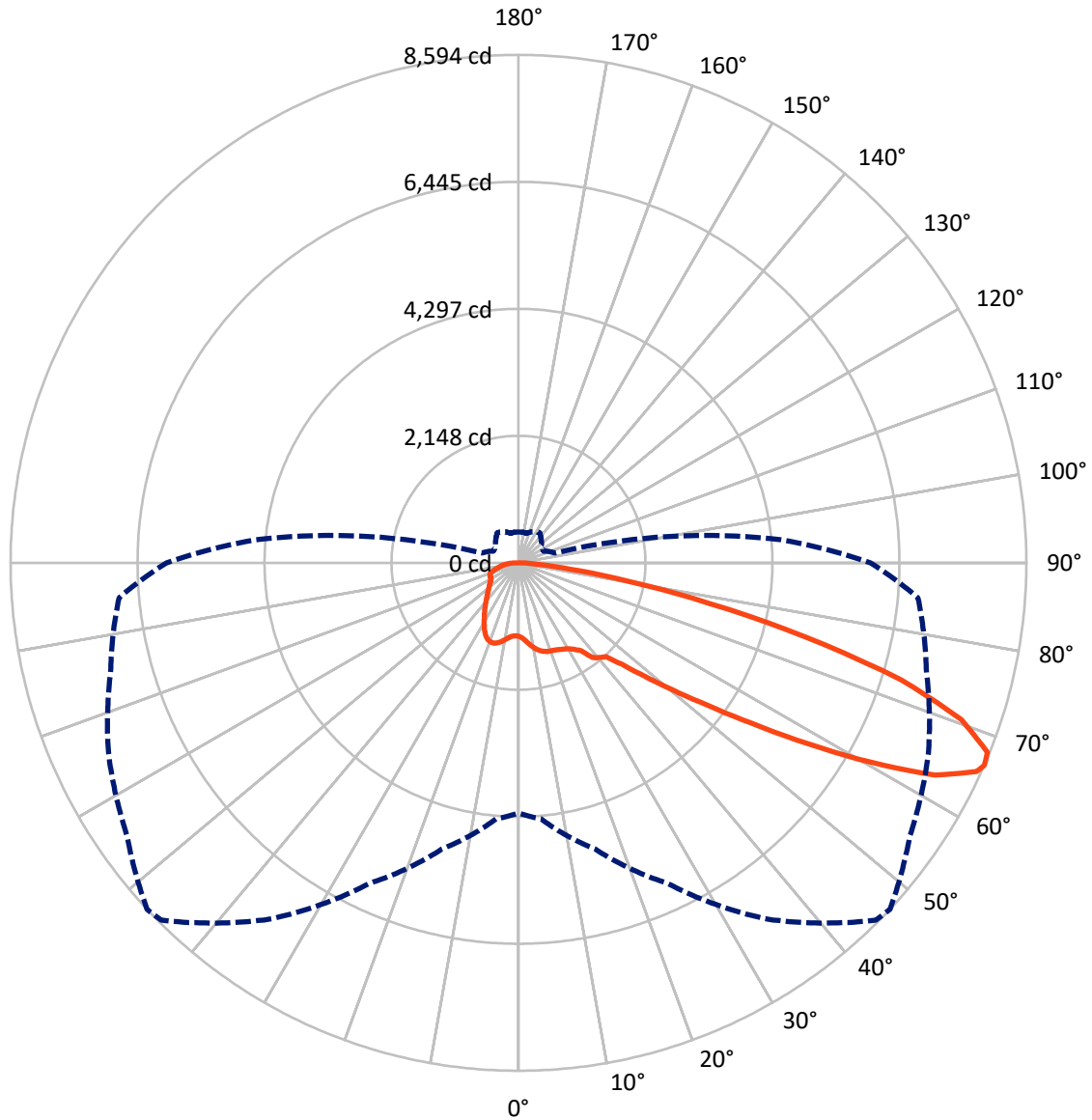
✕ Max cd
 - - - 1/2 Max cd



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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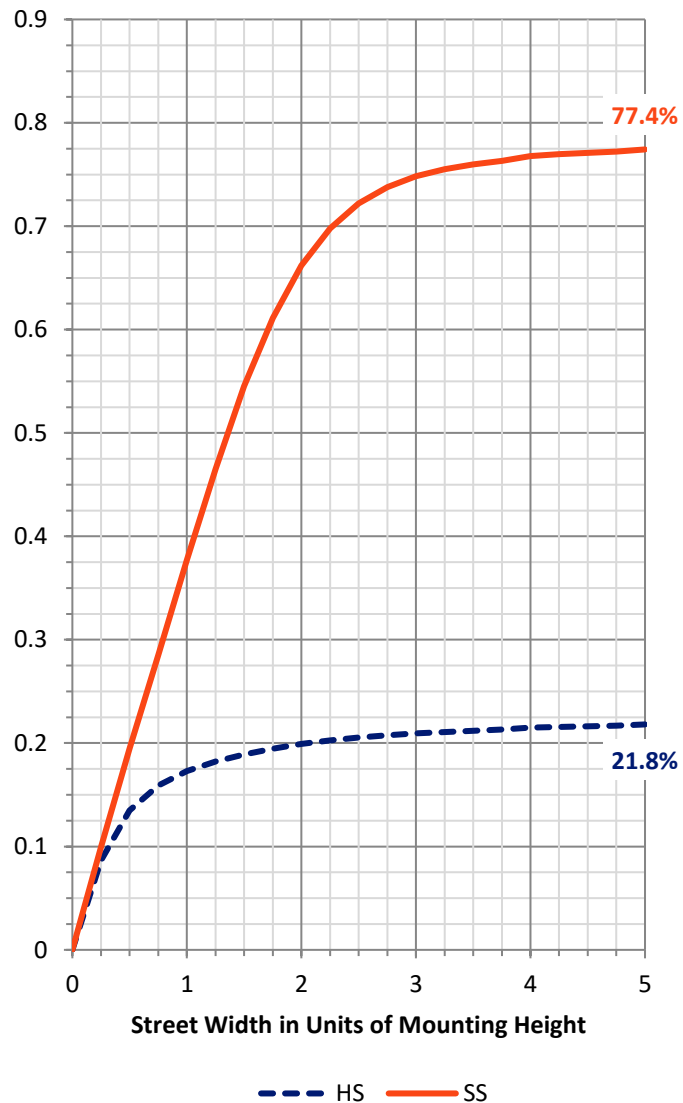
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2752.2	0.0	2752.2
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	9626.8	0.0	9626.8
	% Fixture	77.8	0.0	77.8
Total	Lumens	12379.0	0.0	12379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.0
10°-20°	415.5	3.4
20°-30°	692.9	5.6
30°-40°	1006.3	8.1
40°-50°	1539.0	12.4
50°-60°	2909.1	23.5
60°-70°	3758.9	30.4
70°-80°	1689.6	13.6
80°-90°	241.0	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°	12379.0	100.0
0°-180°	12379.0	100.0

Coefficient of Utilization

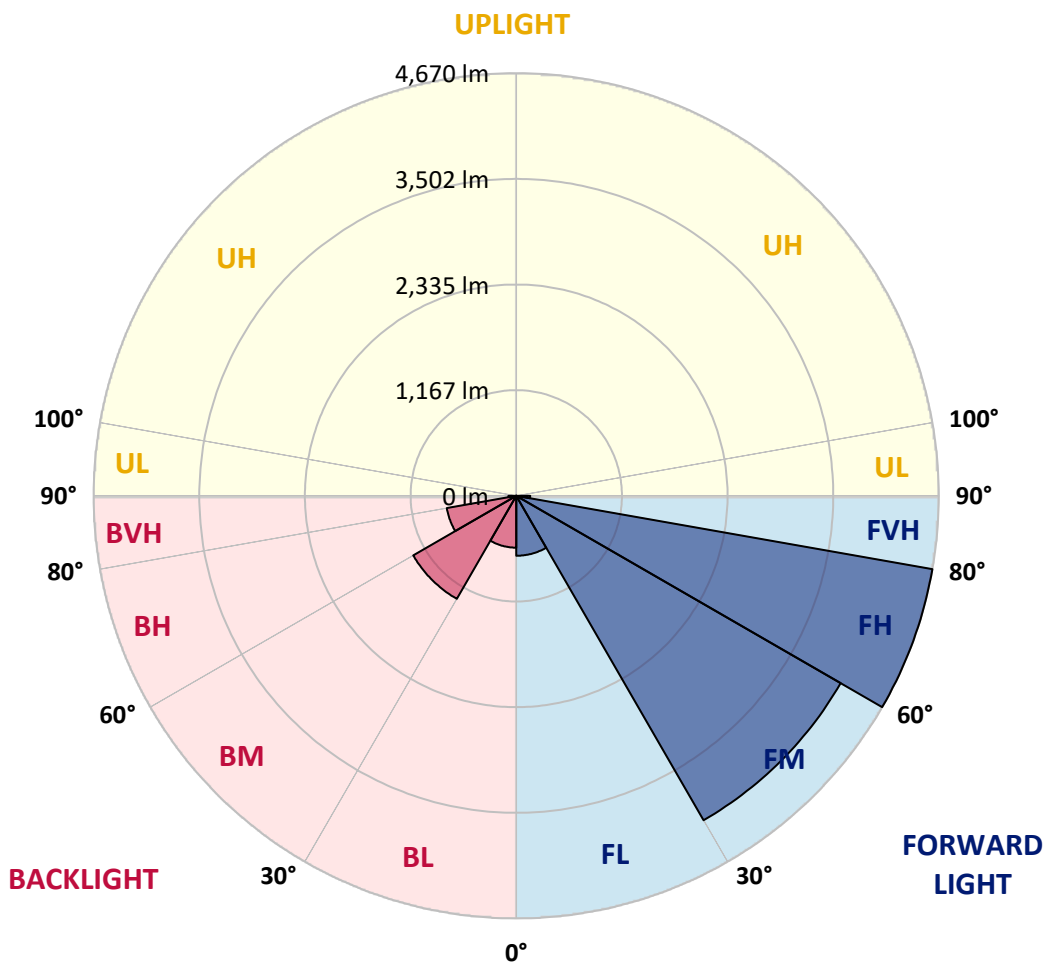


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.3	5.4			
FM (30°-60°)	4139.8	33.4			
FH (60°-80°)	4669.8	37.7			G2/5000
FVH (80°-90°)	154.9	1.3			G2/225
BL (0°-30°)	572.8	4.6	B2/1000		
BM (30°-60°)	1314.6	10.6	B2/2500		
BH (60°-80°)	778.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	86.1	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°	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5
2.5°	1315.1	1305.0	1298.3	1294.9	1288.2	1274.7	1274.7	1271.4	1257.9	1251.2	1247.8
5°	1419.4	1412.6	1395.8	1382.4	1362.2	1335.3	1331.9	1311.7	1284.8	1264.6	1251.2
7.5°	1520.3	1513.5	1496.7	1476.5	1442.9	1409.3	1399.2	1372.3	1328.6	1298.3	1274.7
10°	1607.7	1597.6	1577.4	1550.5	1513.5	1476.5	1466.5	1436.2	1392.5	1348.7	1308.4
12.5°	1664.9	1658.2	1634.6	1601.0	1560.6	1523.6	1516.9	1490.0	1446.3	1399.2	1348.7
15°	1691.8	1688.4	1661.5	1627.9	1587.5	1557.3	1553.9	1530.4	1493.4	1446.3	1389.1
17.5°	1685.1	1681.7	1658.2	1624.5	1594.3	1577.4	1577.4	1560.6	1530.4	1490.0	1429.5
20°	1651.4	1651.4	1631.3	1607.7	1590.9	1587.5	1587.5	1584.2	1564.0	1530.4	1469.8
22.5°	1617.8	1617.8	1604.4	1587.5	1584.2	1597.6	1601.0	1607.7	1601.0	1574.1	1520.3
25°	1624.5	1621.2	1604.4	1584.2	1587.5	1617.8	1624.5	1641.3	1638.0	1617.8	1570.7
27.5°	1698.5	1695.2	1651.4	1611.1	1607.7	1644.7	1651.4	1675.0	1675.0	1658.2	1627.9
30°	1883.5	1890.2	1809.5	1708.6	1658.2	1681.7	1688.4	1715.3	1728.8	1735.5	1712.0
32.5°	2166.0	2156.0	2034.9	1870.1	1759.1	1735.5	1745.6	1769.2	1816.2	1829.7	1772.5
35°	2451.9	2458.7	2340.9	2132.4	1920.5	1833.1	1826.3	1860.0	1930.6	1870.1	1769.2
37.5°	2717.6	2707.6	2569.7	2344.3	2132.4	2031.5	2034.9	2021.4	1960.9	1839.8	1792.7
40°	3006.9	2980.0	2865.6	2576.4	2307.3	2139.1	2108.9	1994.5	1944.1	1893.6	1886.9
42.5°	3292.8	3296.2	3202.0	2916.1	2515.8	2216.5	2169.4	2051.7	2085.3	2075.2	2068.5
45°	3652.7	3652.7	3558.5	3292.8	2845.5	2505.7	2441.8	2300.6	2354.4	2394.8	2475.5
47.5°	3982.3	3962.1	3935.2	3709.9	3276.0	2882.5	2855.5	2694.1	2835.4	2959.8	3124.6
50°	4332.1	4305.2	4288.4	4150.5	3841.0	3454.2	3373.5	3205.3	3514.8	3746.9	4052.9
52.5°	4877.0	4829.9	4742.4	4665.1	4544.0	4096.6	3995.7	3871.3	4271.5	4564.2	5189.8
55°	5368.0	5327.7	5243.6	5300.8	5283.9	4877.0	4789.5	4671.8	5105.7	5462.2	6178.6
57.5°	5549.6	5553.0	5667.4	5973.4	6134.9	5899.4	5775.0	5657.3	6023.9	6188.7	6834.5
60°	5633.7	5623.6	5919.6	6417.4	6942.1	7012.7	6854.7	6612.5	6750.4	6760.5	7389.4
62.5°	5452.1	5479.0	5886.0	6602.4	7426.4	7934.3	7910.8	7487.0	7359.2	7217.9	7537.4
65°	4762.6	4799.6	5398.3	6272.8	7503.8	8492.6	8516.2	8021.8	7665.2	7271.7	7117.0
66°	4237.9	4348.9	5014.9	5986.9	7362.5	8549.8	8593.5	8078.9	7651.8	7143.9	6784.0
67.5°	3555.1	3548.4	4291.7	5357.9	6969.0	8499.4	8556.5	7998.2	7470.2	6767.2	6118.1
70°	2176.1	2243.4	2882.5	3999.1	5768.3	7870.4	7947.8	7429.8	6686.5	5731.3	4523.8
72.5°	1116.7	1227.6	1648.1	2599.9	4187.5	6504.9	6767.2	6239.1	5465.6	4147.1	2761.4
75°	592.0	585.2	777.0	1409.3	2673.9	4880.3	5018.2	4678.5	3777.1	2472.1	1405.9
77.5°	316.2	333.0	407.0	723.1	1469.8	3117.9	3292.8	3017.0	2152.6	1264.6	672.7
80°	215.3	225.3	275.8	407.0	797.1	1691.8	1853.2	1607.7	1126.7	598.7	316.2
82.5°	137.9	144.6	188.4	252.3	477.6	820.7	864.4	824.0	551.6	339.7	191.7
85°	84.1	87.4	114.4	161.4	299.3	333.0	346.4	349.8	309.4	222.0	104.3
87.5°	40.4	43.7	63.9	80.7	141.3	121.1	111.0	114.4	171.5	131.2	47.1
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°	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5	1244.5
2.5°	1244.5	1241.1	1234.4	1231.0	1234.4	1234.4	1234.4	1237.7	1244.5	1244.5	1247.8
5°	1244.5	1237.7	1231.0	1231.0	1237.7	1244.5	1251.2	1264.6	1271.4	1274.7	1274.7
7.5°	1261.3	1254.6	1247.8	1247.8	1257.9	1271.4	1284.8	1301.6	1318.5	1331.9	1331.9
10°	1294.9	1284.8	1278.1	1281.5	1298.3	1315.1	1331.9	1352.1	1368.9	1385.7	1385.7
12.5°	1331.9	1321.8	1311.7	1318.5	1342.0	1362.2	1379.0	1389.1	1405.9	1419.4	1419.4
15°	1368.9	1352.1	1348.7	1362.2	1385.7	1399.2	1405.9	1405.9	1412.6	1426.1	1426.1
17.5°	1409.3	1392.5	1389.1	1402.5	1422.7	1422.7	1409.3	1399.2	1395.8	1405.9	1409.3
20°	1449.6	1432.8	1432.8	1442.9	1439.5	1416.0	1392.5	1375.6	1362.2	1372.3	1375.6
22.5°	1500.1	1483.3	1476.5	1463.1	1432.8	1385.7	1348.7	1328.6	1318.5	1325.2	1331.9
25°	1550.5	1537.1	1520.3	1473.2	1402.5	1328.6	1281.5	1264.6	1268.0	1281.5	1288.2
27.5°	1614.4	1607.7	1567.4	1466.5	1348.7	1247.8	1200.7	1197.4	1210.8	1231.0	1241.1
30°	1691.8	1681.7	1611.1	1446.3	1274.7	1153.7	1120.0	1126.7	1146.9	1163.7	1173.8
32.5°	1745.6	1738.9	1631.3	1399.2	1183.9	1069.6	1042.7	1042.7	1052.8	1076.3	1086.4
35°	1762.4	1789.3	1644.7	1328.6	1076.3	995.6	968.7	951.8	951.8	972.0	978.8
37.5°	1819.6	1880.2	1651.4	1234.4	988.8	928.3	894.7	864.4	854.3	850.9	850.9
40°	1950.8	2021.4	1648.1	1113.3	904.8	861.0	820.7	787.0	760.1	723.1	726.5
42.5°	2179.5	2233.3	1638.0	985.5	830.8	800.5	760.1	719.8	676.0	635.7	632.3
45°	2620.1	2539.4	1611.1	874.5	763.5	746.7	709.7	662.6	608.8	571.8	571.8
47.5°	3316.3	3094.3	1594.3	770.2	703.0	699.6	666.0	615.5	561.7	534.8	531.4
50°	4271.5	3861.2	1621.2	696.2	649.1	659.2	632.3	585.2	541.5	518.0	514.6
52.5°	5368.0	4685.2	1651.4	649.1	608.8	629.0	615.5	571.8	528.1	507.9	504.5
55°	6215.6	5354.6	1607.7	605.4	568.4	598.7	598.7	558.3	521.3	501.1	501.1
57.5°	6810.9	5623.6	1456.4	565.1	534.8	571.8	581.9	551.6	518.0	511.2	511.2
60°	7066.5	5610.2	1190.7	528.1	511.2	544.9	571.8	544.9	524.7	541.5	544.9
62.5°	6928.6	5317.6	924.9	501.1	494.4	538.1	581.9	571.8	548.2	561.7	568.4
65°	6306.4	4803.0	696.2	477.6	474.2	541.5	608.8	588.6	531.4	534.8	538.1
66°	5956.6	4456.5	639.1	470.9	467.5	544.9	622.2	581.9	518.0	524.7	521.3
67.5°	5209.9	3911.7	561.7	457.4	454.1	544.9	639.1	568.4	501.1	511.2	501.1
70°	3820.8	2768.1	481.0	440.6	433.9	534.8	635.7	541.5	464.2	457.4	440.6
72.5°	2216.5	1675.0	427.2	420.4	403.6	470.9	595.3	497.8	423.8	403.6	386.8
75°	1089.7	850.9	380.1	396.9	353.2	413.7	538.1	460.8	390.2	363.2	353.2
77.5°	501.1	430.5	343.1	363.2	312.8	356.5	491.1	420.4	346.4	306.1	296.0
80°	272.4	269.1	289.3	302.7	262.3	312.8	433.9	366.6	292.6	248.9	235.4
82.5°	168.2	171.5	211.9	232.1	205.2	272.4	383.4	306.1	222.0	174.9	178.3
85°	87.4	97.5	141.3	154.7	134.5	201.8	289.3	205.2	124.4	90.8	90.8
87.5°	30.3	40.4	70.6	84.1	74.0	121.1	181.6	97.5	26.9	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)