

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: P572728

Luminaire Tested: **ARCH-S-PA2-110-727-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-727-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12423 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

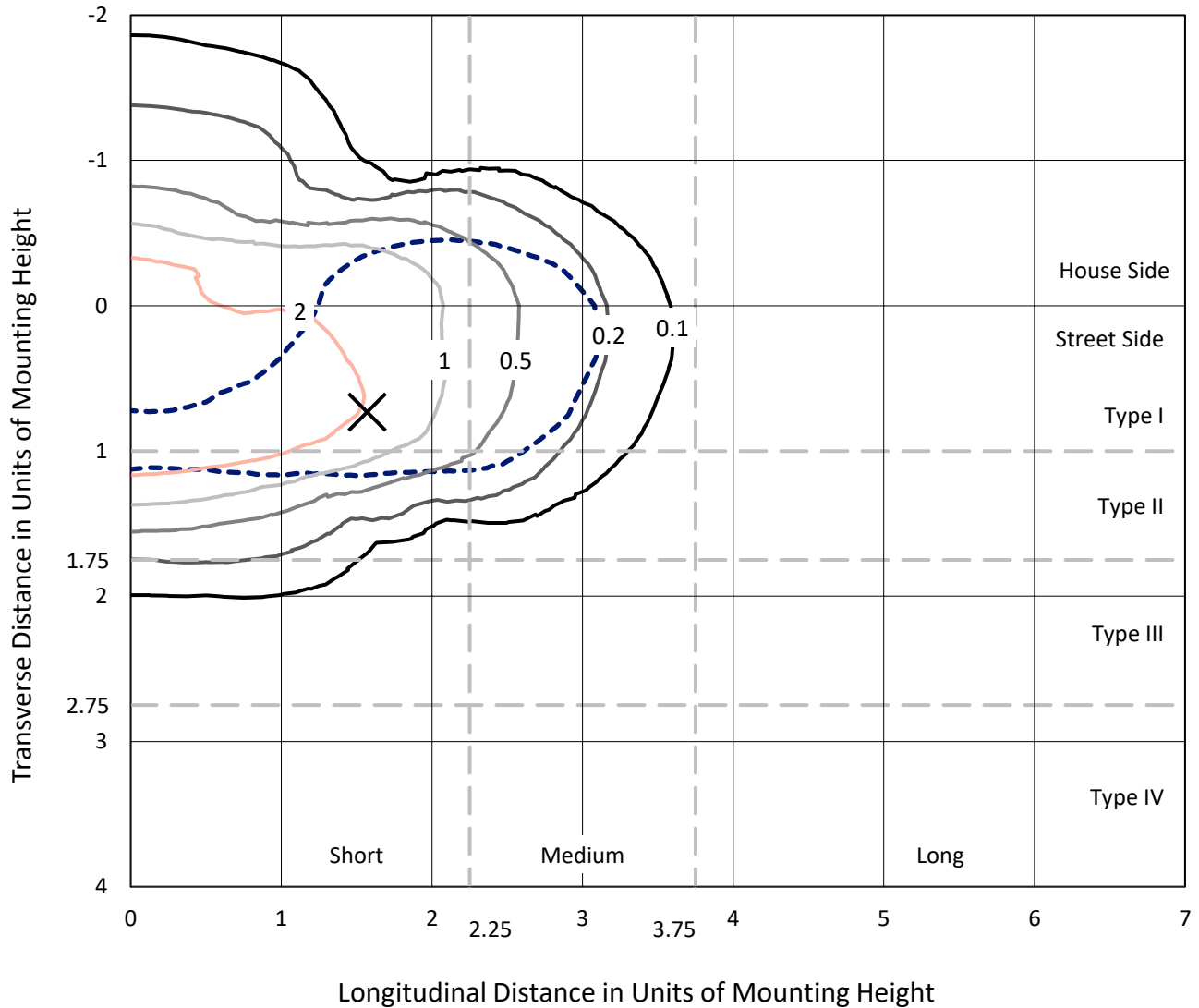
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

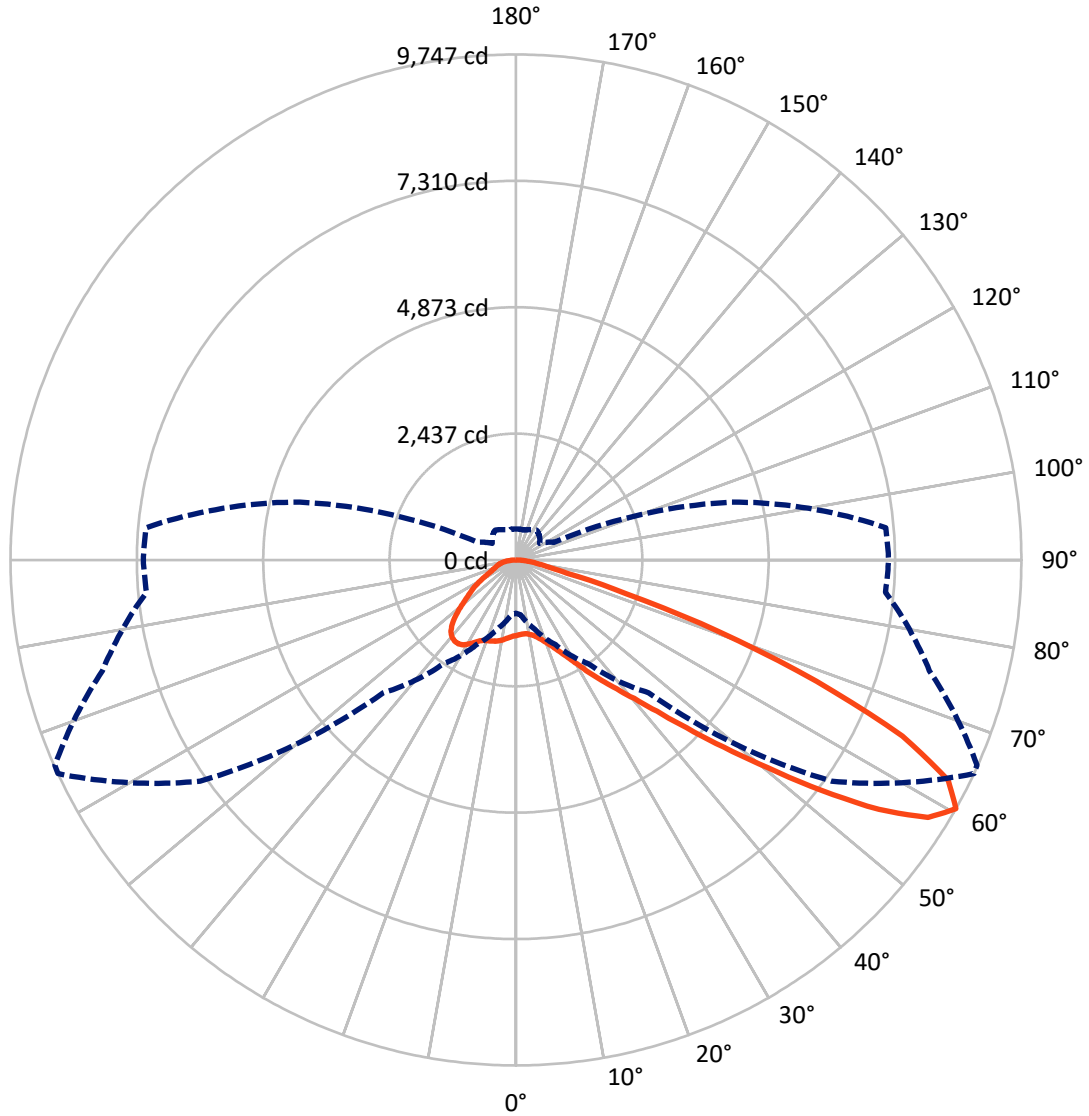
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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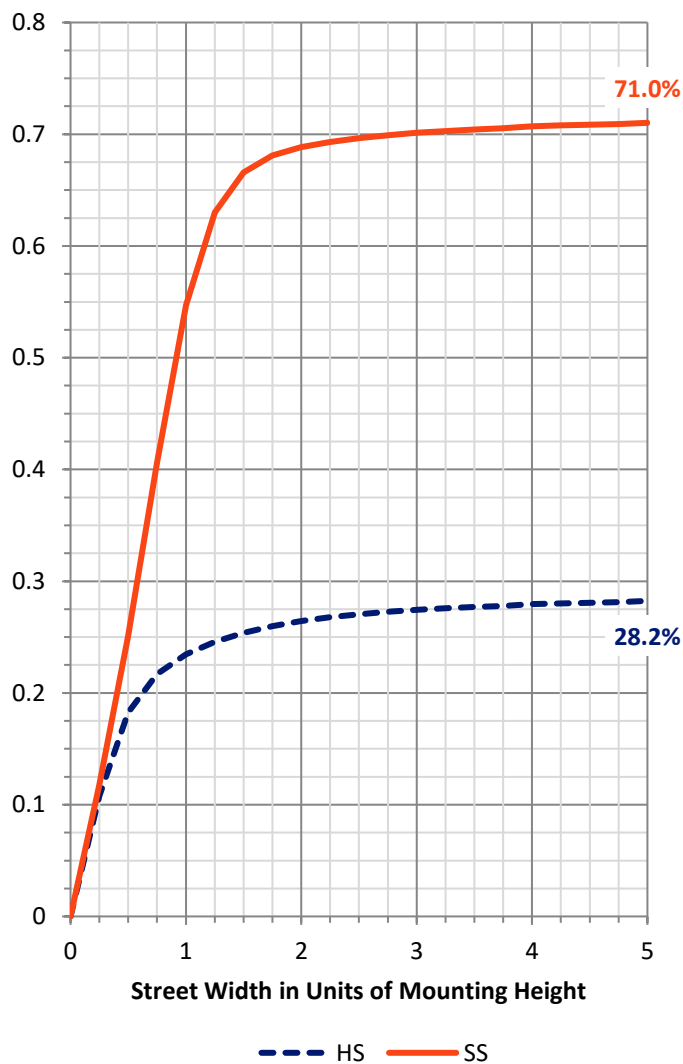
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3556.4	0.0	3556.4
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8866.6	0.0	8866.6
	% Fixture	71.4	0.0	71.4
Total	Lumens	12423.0	0.0	12423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.1
10°-20°	453.2	3.6
20°-30°	868.8	7.0
30°-40°	1509.0	12.1
40°-50°	2559.2	20.6
50°-60°	3186.7	25.7
60°-70°	2567.9	20.7
70°-80°	972.4	7.8
80°-90°	164.9	1.3
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°	12423.0	100.0
0°-180°	12423.0	100.0

Coefficient of Utilization



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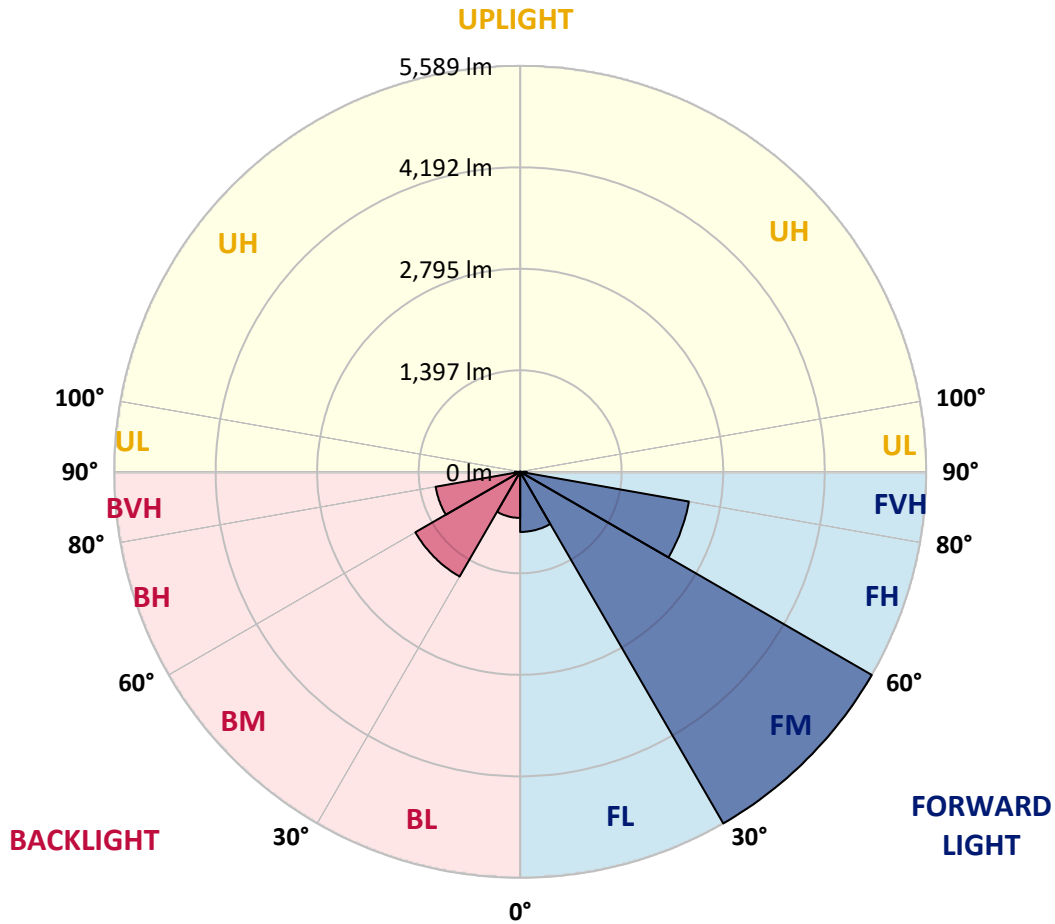
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.2	6.7			
FM (30°-60°)	5589.1	45.0			
FH (60°-80°)	2357.8	19.0			G2/5000
FVH (80°-90°)	91.5	0.7			G1/100
BL (0°-30°)	634.7	5.1	B2/1000		
BM (30°-60°)	1665.7	13.4	B2/2500		
BH (60°-80°)	1182.5	9.5	B3/2500		G3/2500
BVH (80°-90°)	73.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6
2.5°	1423.5	1423.5	1423.5	1426.9	1430.3	1433.8	1440.6	1440.6	1440.6	1444.0	1450.8
5°	1396.3	1392.9	1396.3	1399.7	1406.5	1413.3	1426.9	1433.8	1433.8	1447.4	1461.0
7.5°	1399.7	1392.9	1392.9	1396.3	1403.1	1409.9	1423.5	1433.8	1437.2	1454.2	1478.0
10°	1433.8	1423.5	1423.5	1426.9	1426.9	1433.8	1444.0	1457.6	1461.0	1478.0	1501.9
12.5°	1505.3	1495.1	1491.6	1481.4	1471.2	1478.0	1488.2	1491.6	1495.1	1505.3	1529.1
15°	1655.1	1638.1	1610.8	1590.4	1563.2	1546.1	1542.7	1546.1	1546.1	1549.5	1563.2
17.5°	1869.7	1849.2	1808.4	1764.1	1699.4	1644.9	1627.9	1614.2	1614.2	1604.0	1604.0
20°	2131.9	2101.2	2053.6	1988.9	1893.5	1794.7	1736.8	1706.2	1696.0	1679.0	1655.1
22.5°	2435.0	2414.6	2353.3	2254.5	2111.5	1978.6	1883.3	1815.2	1815.2	1774.3	1723.2
25°	2792.6	2755.1	2683.6	2567.8	2373.7	2183.0	2053.6	1954.8	1944.6	1879.9	1798.2
27.5°	3140.0	3116.1	3027.6	2874.3	2642.7	2421.4	2240.9	2125.1	2108.1	2005.9	1879.9
30°	3562.2	3535.0	3402.2	3187.6	2939.0	2687.0	2475.9	2326.0	2309.0	2169.4	1992.3
32.5°	4086.7	3994.8	3831.3	3586.1	3266.0	2983.3	2741.5	2581.4	2561.0	2400.9	2189.8
35°	4723.6	4645.2	4362.6	4103.7	3722.3	3351.1	3061.6	2850.5	2823.2	2632.5	2366.9
37.5°	5173.1	5135.6	4941.5	4737.2	4301.3	3800.6	3446.5	3153.6	3126.3	2874.3	2530.4
40°	5455.8	5418.3	5363.8	5305.9	5064.1	4498.8	3909.6	3511.2	3466.9	3228.5	2857.3
42.5°	5602.2	5571.5	5581.8	5697.5	5765.7	5677.1	4570.3	3987.9	3957.3	3667.8	3255.7
45°	5517.1	5496.6	5595.4	5901.9	6235.6	6889.5	5418.3	4614.6	4532.8	4188.9	3739.3
47.5°	5108.4	5047.1	5278.7	5799.7	6514.9	7468.5	6440.0	5387.6	5299.1	4805.3	4229.7
50°	4267.2	4250.2	4566.9	5227.6	6405.9	7696.6	7533.2	6300.3	6235.6	5469.4	4774.6
52.5°	3483.9	3477.1	3722.3	4328.5	5711.2	7536.6	8326.7	7386.7	7192.6	6136.9	5367.2
55°	2704.0	2700.6	2918.6	3371.5	4556.7	6783.9	8701.3	8493.5	8350.5	6865.7	5976.8
57.5°	1849.2	1825.4	2108.1	2452.0	3422.6	5374.0	8456.1	9368.8	9280.2	7638.7	6623.9
60°	1028.5	1062.5	1375.9	1801.6	2448.6	3620.1	7434.4	9746.8	9733.2	8255.1	7151.7
62.5°	728.8	742.4	875.2	1280.5	1610.8	2074.0	5735.0	9355.1	9464.1	8595.7	7451.4
65°	606.2	613.0	677.7	946.8	1178.3	1198.8	3575.9	8193.8	8336.9	8490.1	7516.1
67.5°	572.1	575.5	609.6	698.1	922.9	868.4	1597.2	6256.1	6559.2	7638.7	7093.8
70°	521.1	524.5	575.5	616.4	745.8	684.5	820.7	4154.8	4563.5	6038.1	6116.4
72.5°	446.1	456.3	497.2	578.9	606.2	568.7	633.4	2220.4	2625.7	4039.0	4723.6
75°	384.8	391.6	422.3	490.4	568.7	452.9	538.1	1011.5	1185.1	2370.3	2990.1
77.5°	309.9	313.3	357.6	401.9	476.8	367.8	418.9	606.2	636.8	1157.9	1352.0
80°	235.0	235.0	265.6	320.1	354.2	354.2	306.5	422.3	439.3	551.7	534.7
82.5°	180.5	177.1	200.9	224.8	255.4	296.3	231.6	279.3	286.1	333.7	286.1
85°	119.2	119.2	132.8	153.3	170.3	163.5	180.5	163.5	170.3	207.7	156.7
87.5°	51.1	51.1	71.5	68.1	74.9	78.3	88.5	78.3	78.3	95.4	71.5
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°	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6	1457.6
2.5°	1454.2	1457.6	1464.4	1467.8	1478.0	1481.4	1481.4	1488.2	1488.2	1495.1	1495.1
5°	1464.4	1474.6	1484.8	1495.1	1505.3	1508.7	1515.5	1518.9	1518.9	1525.7	1522.3
7.5°	1484.8	1495.1	1515.5	1525.7	1539.3	1546.1	1542.7	1546.1	1542.7	1546.1	1546.1
10°	1512.1	1525.7	1549.5	1563.2	1573.4	1576.8	1566.6	1556.4	1542.7	1542.7	1542.7
12.5°	1542.7	1552.9	1583.6	1593.8	1600.6	1590.4	1563.2	1542.7	1532.5	1535.9	1532.5
15°	1573.4	1583.6	1607.4	1617.7	1617.7	1587.0	1563.2	1556.4	1552.9	1556.4	1556.4
17.5°	1604.0	1614.2	1634.7	1634.7	1624.5	1600.6	1576.8	1552.9	1535.9	1525.7	1525.7
20°	1644.9	1644.9	1651.7	1651.7	1648.3	1610.8	1552.9	1495.1	1461.0	1440.6	1437.2
22.5°	1699.4	1685.8	1672.1	1672.1	1685.8	1587.0	1474.6	1386.1	1331.6	1324.8	1311.2
25°	1757.3	1726.6	1692.6	1716.4	1692.6	1525.7	1365.6	1246.4	1181.7	1157.9	1164.7
27.5°	1818.6	1770.9	1719.8	1787.9	1658.5	1406.5	1212.4	1079.6	1018.3	1001.2	1001.2
30°	1903.7	1832.2	1757.3	1862.9	1593.8	1270.3	1031.9	936.5	902.5	888.9	885.5
32.5°	2067.2	1958.2	1849.2	1931.0	1522.3	1093.2	909.3	851.4	810.5	796.9	807.1
35°	2213.6	2060.4	1988.9	1961.6	1409.9	950.2	834.4	783.3	749.2	732.2	732.2
37.5°	2346.4	2200.0	2145.5	1961.6	1263.5	861.6	786.7	745.8	701.6	687.9	687.9
40°	2635.9	2441.8	2346.4	1934.4	1083.0	817.3	762.9	715.2	677.7	664.1	660.7
42.5°	3034.4	2772.1	2554.2	1873.1	929.7	796.9	749.2	694.7	664.1	653.9	650.5
45°	3456.7	3225.1	2751.7	1764.1	831.0	776.5	745.8	687.9	650.5	640.3	636.8
47.5°	3967.5	3729.1	2979.9	1597.2	762.9	762.9	742.4	677.7	643.7	633.4	633.4
50°	4532.8	4335.3	3269.4	1406.5	711.8	752.6	735.6	677.7	640.3	630.0	626.6
52.5°	5111.8	5019.8	3572.5	1219.2	660.7	739.0	732.2	677.7	633.4	623.2	623.2
55°	5847.4	5772.5	3923.2	1079.6	619.8	711.8	732.2	670.9	623.2	616.4	616.4
57.5°	6569.4	6542.1	4195.7	957.0	589.2	677.7	722.0	660.7	613.0	609.6	609.6
60°	7185.8	7158.5	4311.5	803.7	558.5	643.7	701.6	643.7	596.0	599.4	599.4
62.5°	7567.2	7410.6	4226.3	664.1	527.9	613.0	677.7	623.2	578.9	589.2	585.8
65°	7635.3	7270.9	3896.0	555.1	493.8	578.9	650.5	599.4	555.1	578.9	575.5
67.5°	7134.7	6528.5	3276.2	483.6	459.8	541.5	619.8	565.3	527.9	561.9	551.7
70°	6051.7	5302.5	2424.8	429.1	425.7	497.2	578.9	524.5	490.4	507.4	493.8
72.5°	4505.6	3827.9	1570.0	388.2	388.2	446.1	521.1	473.4	439.3	442.7	429.1
75°	2809.6	2353.3	892.3	350.8	350.8	395.0	463.2	415.5	391.6	378.0	395.0
77.5°	1277.1	1035.3	470.0	313.3	316.7	337.2	398.5	354.2	326.9	306.5	316.7
80°	473.4	422.3	306.5	269.0	275.9	279.3	320.1	282.7	258.8	245.2	238.4
82.5°	245.2	228.2	207.7	214.6	224.8	214.6	248.6	211.1	183.9	173.7	146.4
85°	122.6	119.2	126.0	143.0	156.7	132.8	149.8	136.2	112.4	81.7	81.7
87.5°	47.7	51.1	47.7	64.7	71.5	61.3	68.1	47.7	34.1	17.0	13.6
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)