

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: P572946

Luminaire Tested: **ARCH-S-PA2-130-827-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11917 lumens
Efficiency: N/A
Efficacy: 90.5 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): 131.7
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

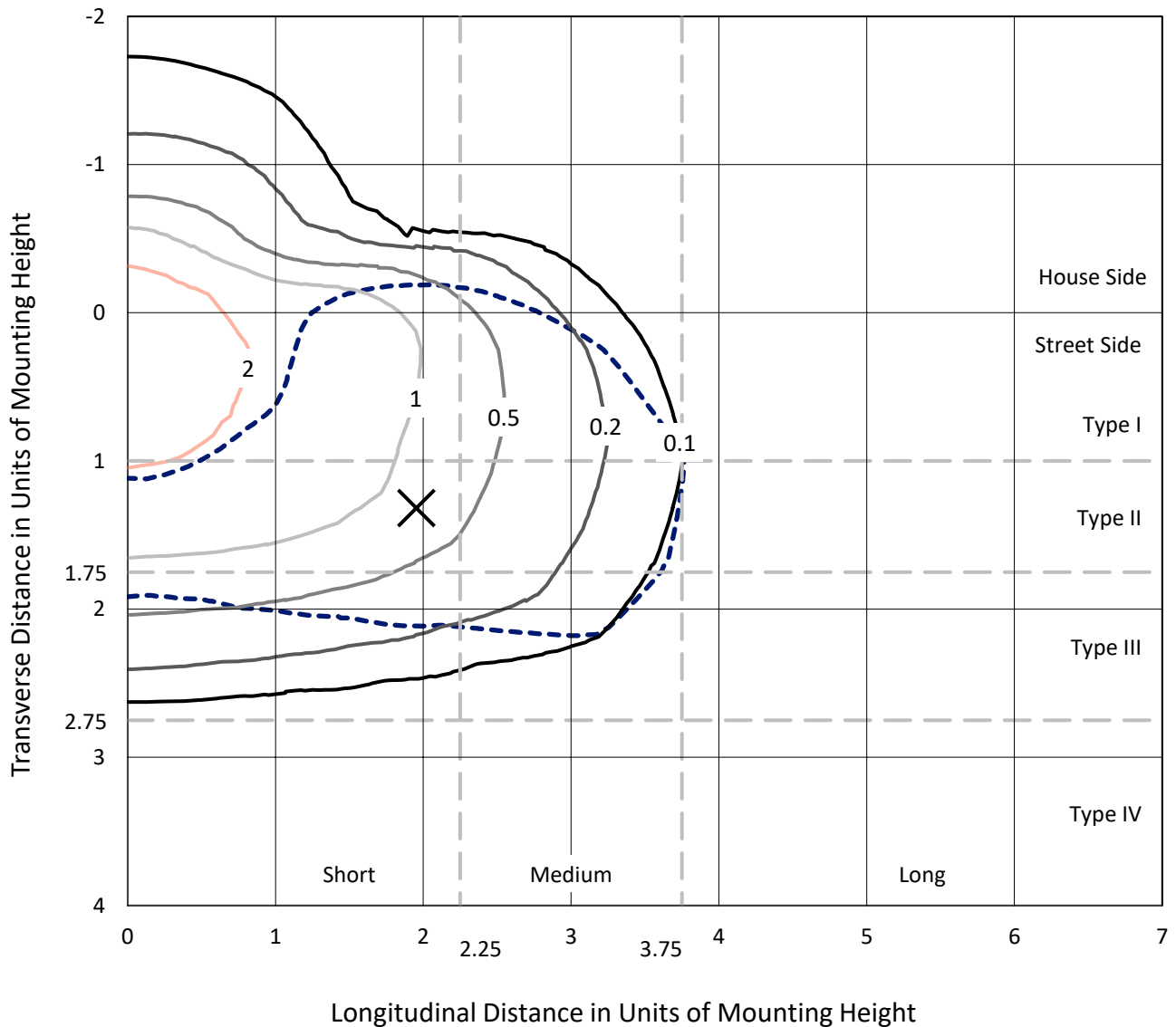




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Iso-Footcandle Lines of Horizontal Illumination

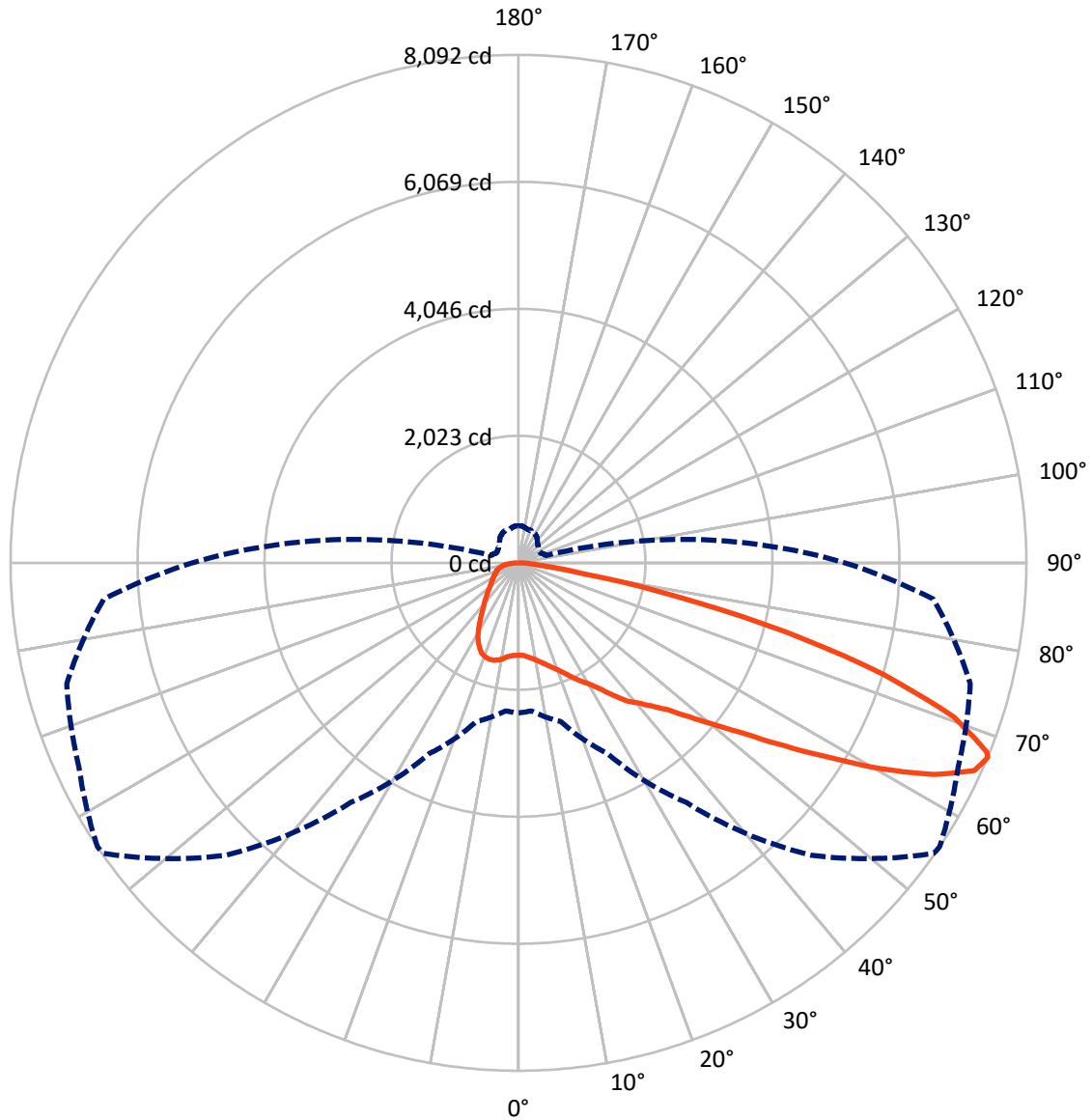
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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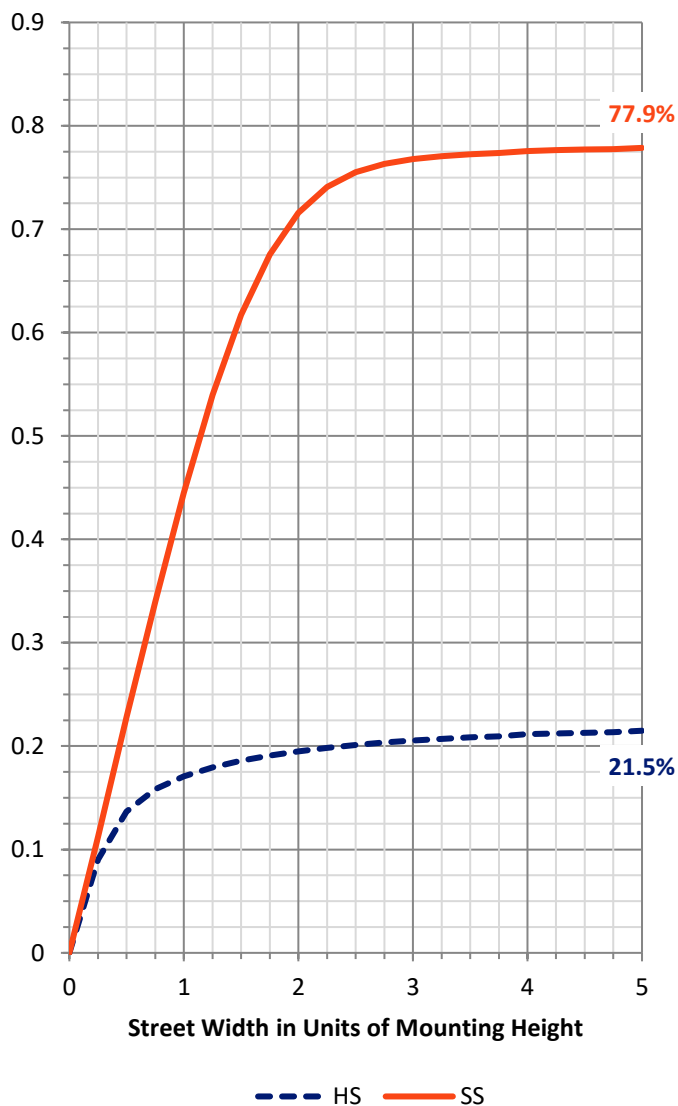
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2607.2	0.0	2607.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9309.8	0.0	9309.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	11917.0	0.0	11917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	1.2
10°-20°	464.2	3.9
20°-30°	807.9	6.8
30°-40°	1184.6	9.9
40°-50°	1733.2	14.5
50°-60°	2708.7	22.7
60°-70°	3219.4	27.0
70°-80°	1466.2	12.3
80°-90°	188.0	1.6
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°	11917.0	100.0
0°-180°	11917.0	100.0

Coefficient of Utilization



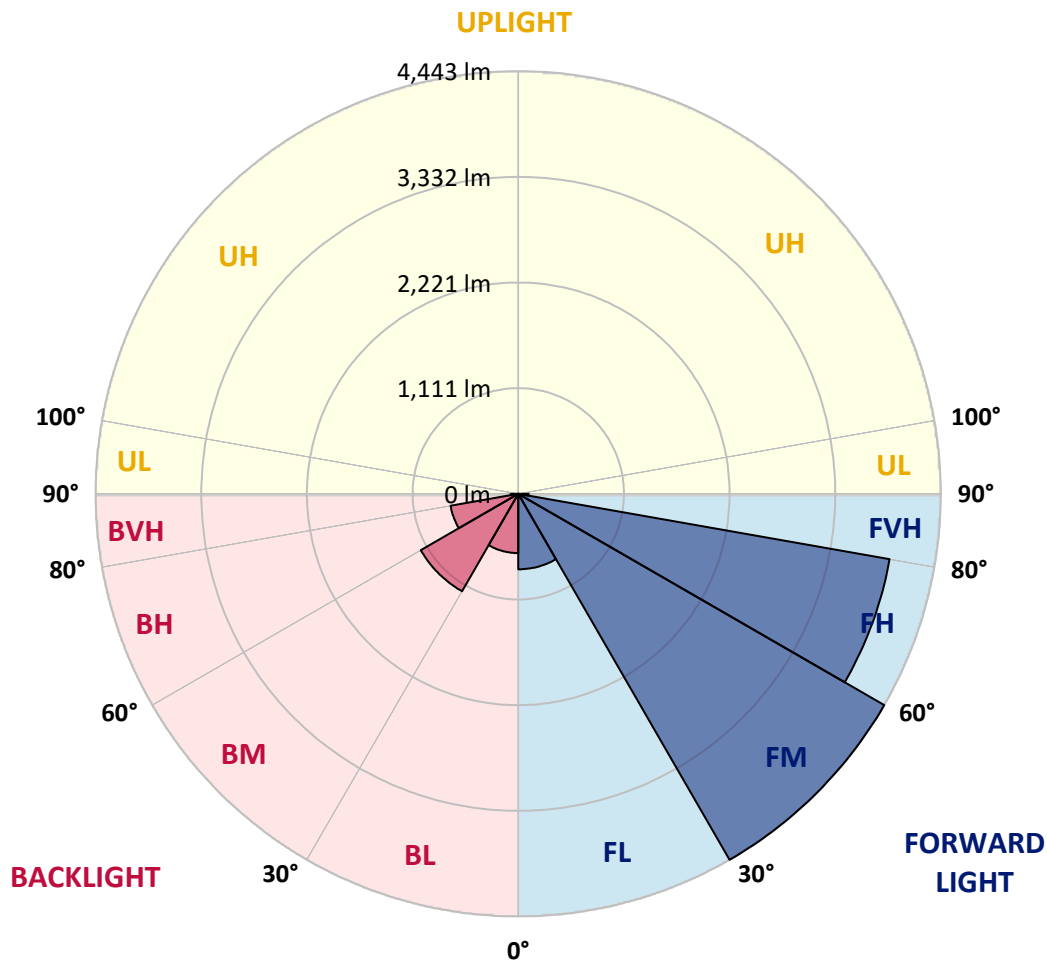
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.8	6.7			
FM (30°-60°)	4443.0	37.3			
FH (60°-80°)	3963.4	33.3			G2/5000
FVH (80°-90°)	109.6	0.9			G2/225
BL (0°-30°)	623.1	5.2	B2/1000		
BM (30°-60°)	1183.5	9.9	B2/2500		
BH (60°-80°)	722.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	78.4	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3
2.5°	1493.9	1487.4	1484.2	1487.4	1484.2	1477.7	1481.0	1477.7	1474.5	1471.3	1471.3
5°	1513.2	1506.8	1503.5	1506.8	1510.0	1503.5	1503.5	1503.5	1493.9	1490.6	1484.2
7.5°	1526.1	1516.5	1516.5	1522.9	1529.4	1532.6	1539.0	1535.8	1526.1	1519.7	1506.8
10°	1568.1	1555.2	1555.2	1555.2	1561.6	1568.1	1574.5	1577.8	1574.5	1571.3	1561.6
12.5°	1632.6	1619.7	1619.7	1619.7	1619.7	1616.5	1626.2	1629.4	1635.8	1635.8	1619.7
15°	1719.7	1703.6	1697.1	1684.2	1681.0	1674.6	1687.5	1687.5	1697.1	1700.4	1684.2
17.5°	1803.6	1784.3	1777.8	1764.9	1752.0	1735.9	1748.8	1752.0	1771.3	1774.6	1748.8
20°	1890.7	1884.3	1874.6	1855.2	1832.7	1816.5	1829.4	1826.2	1842.3	1848.8	1816.5
22.5°	2003.7	1987.5	1981.1	1955.3	1929.4	1913.3	1913.3	1919.8	1935.9	1935.9	1887.5
25°	2139.2	2116.6	2100.4	2071.4	2039.1	2019.8	2023.0	2029.5	2052.1	2035.9	1961.7
27.5°	2306.9	2284.4	2261.8	2203.7	2171.4	2132.7	2129.5	2135.9	2171.4	2129.5	2032.7
30°	2465.0	2455.4	2436.0	2390.8	2339.2	2274.7	2245.6	2248.9	2274.7	2216.6	2094.0
32.5°	2600.6	2587.7	2578.0	2545.7	2510.2	2432.8	2394.1	2397.3	2394.1	2323.1	2168.2
35°	2761.9	2742.5	2736.1	2707.0	2661.9	2610.2	2594.1	2587.7	2568.3	2471.5	2265.0
37.5°	2916.8	2897.4	2887.7	2871.6	2836.1	2790.9	2790.9	2787.7	2749.0	2613.5	2361.8
40°	3100.7	3078.1	3049.0	3039.4	3010.3	2978.1	2952.2	2936.1	2868.4	2745.7	2548.9
42.5°	3323.3	3310.4	3294.3	3252.3	3207.1	3200.7	3126.5	3120.0	3071.6	3000.6	2813.5
45°	3642.7	3616.9	3594.3	3581.4	3526.6	3468.5	3365.2	3339.4	3339.4	3323.3	3123.2
47.5°	3965.4	3920.2	3952.5	3942.8	3929.9	3865.3	3665.3	3668.5	3662.1	3704.0	3578.2
50°	4181.5	4155.7	4246.1	4288.0	4378.4	4378.4	4091.2	4055.7	4081.5	4204.1	4042.8
52.5°	4349.3	4333.2	4436.4	4601.0	4868.8	4894.6	4597.8	4523.5	4559.0	4733.3	4668.7
55°	4484.8	4468.7	4588.1	4875.2	5304.4	5462.5	5181.8	5149.5	5078.5	5265.6	5285.0
57.5°	4565.5	4530.0	4710.7	5094.6	5659.3	6023.9	5865.8	5856.1	5691.5	5865.8	5952.9
60°	4442.9	4420.3	4668.7	5185.0	5946.4	6553.0	6669.2	6669.2	6375.6	6469.1	6575.6
62.5°	4046.0	4017.0	4278.3	4975.3	5981.9	6985.4	7466.1	7427.4	7033.8	7030.5	6937.0
65°	3291.0	3255.5	3549.1	4284.8	5533.4	7037.0	8004.9	7982.4	7527.4	7398.4	6959.6
67°	2390.8	2368.2	2619.9	3349.1	4662.3	6588.5	8072.7	8092.1	7724.2	7450.0	6633.7
67.5°	2145.6	2142.4	2352.1	3074.9	4407.4	6424.0	8027.5	8046.9	7721.0	7408.0	6504.6
70°	1000.2	1045.4	1242.2	1761.7	2971.6	5059.1	7285.4	7359.6	7308.0	6924.1	5478.6
72.5°	464.6	484.0	571.1	851.8	1597.1	3262.0	5904.5	6081.9	6307.8	5940.0	4339.6
75°	287.2	293.6	342.0	442.0	751.8	1568.1	4204.1	4397.7	4739.7	4468.7	2774.8
77.5°	225.9	229.1	261.3	316.2	438.8	674.3	2306.9	2548.9	2994.2	2642.5	1397.1
80°	167.8	174.2	200.0	245.2	309.7	345.2	980.9	1071.2	1445.5	1106.7	580.8
82.5°	122.6	129.1	154.9	177.5	216.2	219.4	400.1	422.7	619.5	448.5	251.7
85°	103.2	103.2	119.4	132.3	145.2	122.6	196.8	193.6	238.8	203.3	100.0
87.5°	48.4	51.6	112.9	83.9	71.0	51.6	58.1	61.3	74.2	80.7	38.7
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°	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3	1471.3
2.5°	1468.1	1468.1	1468.1	1471.3	1474.5	1474.5	1477.7	1477.7	1481.0	1484.2	1490.6
5°	1481.0	1481.0	1477.7	1481.0	1487.4	1490.6	1497.1	1503.5	1510.0	1516.5	1519.7
7.5°	1506.8	1503.5	1503.5	1503.5	1510.0	1516.5	1526.1	1532.6	1542.3	1545.5	1551.9
10°	1555.2	1548.7	1548.7	1551.9	1555.2	1545.5	1542.3	1539.0	1548.7	1555.2	1561.6
12.5°	1613.2	1606.8	1603.6	1593.9	1581.0	1561.6	1545.5	1532.6	1535.8	1542.3	1551.9
15°	1674.6	1661.6	1655.2	1632.6	1600.3	1558.4	1532.6	1516.5	1516.5	1516.5	1526.1
17.5°	1739.1	1726.2	1700.4	1658.4	1597.1	1539.0	1506.8	1477.7	1464.8	1461.6	1468.1
20°	1800.4	1781.0	1739.1	1674.6	1577.8	1500.3	1458.4	1410.0	1390.6	1377.7	1384.2
22.5°	1858.5	1832.7	1774.6	1674.6	1545.5	1442.2	1368.0	1303.5	1271.2	1264.8	1268.0
25°	1919.8	1887.5	1810.1	1655.2	1474.5	1355.1	1251.9	1184.1	1142.2	1135.7	1145.4
27.5°	1981.1	1932.7	1839.1	1603.6	1393.8	1235.7	1126.0	1061.5	1038.9	1026.0	1029.3
30°	2032.7	1987.5	1868.1	1532.6	1284.1	1097.0	997.0	967.9	951.8	945.4	945.4
32.5°	2100.4	2058.5	1887.5	1448.7	1155.1	971.2	906.6	884.1	871.2	855.0	858.2
35°	2184.3	2145.6	1877.8	1342.2	1032.5	887.3	835.7	803.4	774.4	751.8	748.5
37.5°	2297.3	2268.2	1829.4	1213.2	919.6	826.0	774.4	732.4	690.5	655.0	648.5
40°	2484.4	2416.6	1758.4	1071.2	842.1	777.6	716.3	664.7	613.0	574.3	564.6
42.5°	2723.2	2581.2	1661.6	926.0	777.6	726.0	664.7	596.9	548.5	513.0	513.0
45°	3000.6	2758.7	1545.5	816.3	709.8	674.3	600.1	542.1	513.0	490.4	487.2
47.5°	3329.7	2936.1	1397.1	729.2	655.0	629.2	555.0	519.5	500.1	480.7	477.5
50°	3771.8	3174.9	1287.4	655.0	600.1	577.5	542.1	513.0	493.7	480.7	477.5
52.5°	4278.3	3481.4	1209.9	596.9	555.0	545.3	538.8	516.2	496.9	487.2	484.0
55°	4826.8	3858.9	1135.7	548.5	519.5	532.4	545.3	522.7	509.8	496.9	490.4
57.5°	5343.1	4178.3	1016.3	506.6	493.7	516.2	542.1	525.9	509.8	500.1	496.9
60°	5694.8	4339.6	851.8	467.8	467.8	493.7	532.4	509.8	493.7	496.9	496.9
62.5°	5807.7	4278.3	674.3	432.4	442.0	467.8	503.3	490.4	484.0	500.1	500.1
65°	5639.9	4029.9	538.8	403.3	416.2	435.6	487.2	500.1	519.5	555.0	558.2
67°	5201.1	3629.8	454.9	380.7	393.6	425.9	506.6	551.7	551.7	590.4	590.4
67.5°	5072.1	3494.3	442.0	374.3	390.4	425.9	516.2	564.6	551.7	596.9	596.9
70°	4123.5	2749.0	374.3	354.9	377.5	448.5	558.2	567.9	538.8	580.8	577.5
72.5°	3058.7	1987.5	342.0	335.6	351.7	422.7	555.0	545.3	503.3	516.2	506.6
75°	1890.7	1151.9	316.2	309.7	319.4	374.3	513.0	496.9	448.5	438.8	429.1
77.5°	913.1	584.0	271.0	280.7	290.4	325.9	451.7	435.6	393.6	371.0	367.8
80°	396.9	300.1	232.3	248.4	251.7	277.5	374.3	354.9	316.2	280.7	280.7
82.5°	196.8	167.8	183.9	206.5	200.0	222.6	293.6	261.3	232.3	193.6	187.1
85°	90.3	96.8	135.5	154.9	135.5	138.7	200.0	183.9	145.2	109.7	112.9
87.5°	32.3	45.2	77.4	93.6	67.8	64.5	106.5	77.4	45.2	12.9	16.1
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)