

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: P572865

Luminaire Tested: **ARCH-S-PA2-120-827-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572865
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-PA2-120-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11492 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

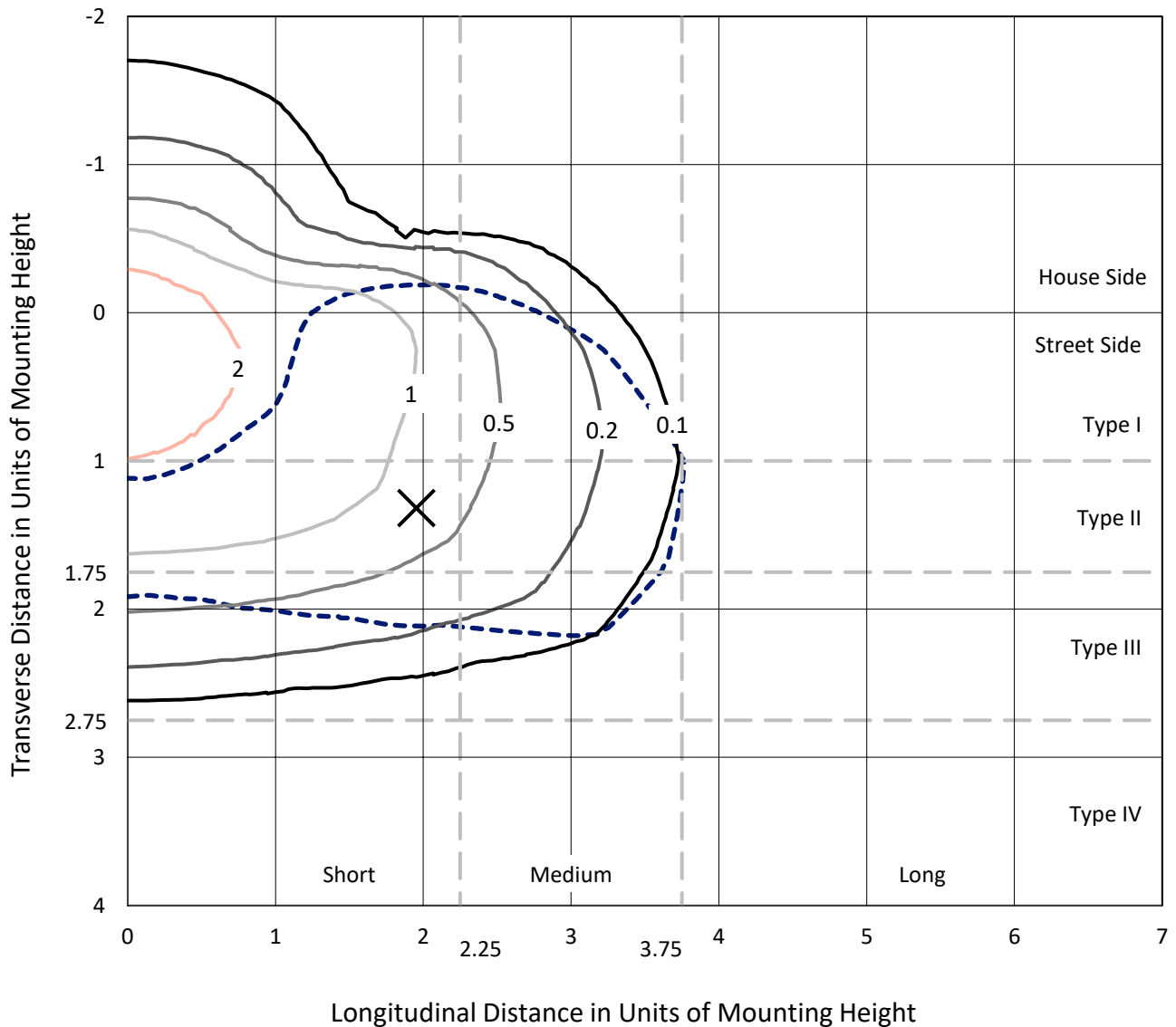
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

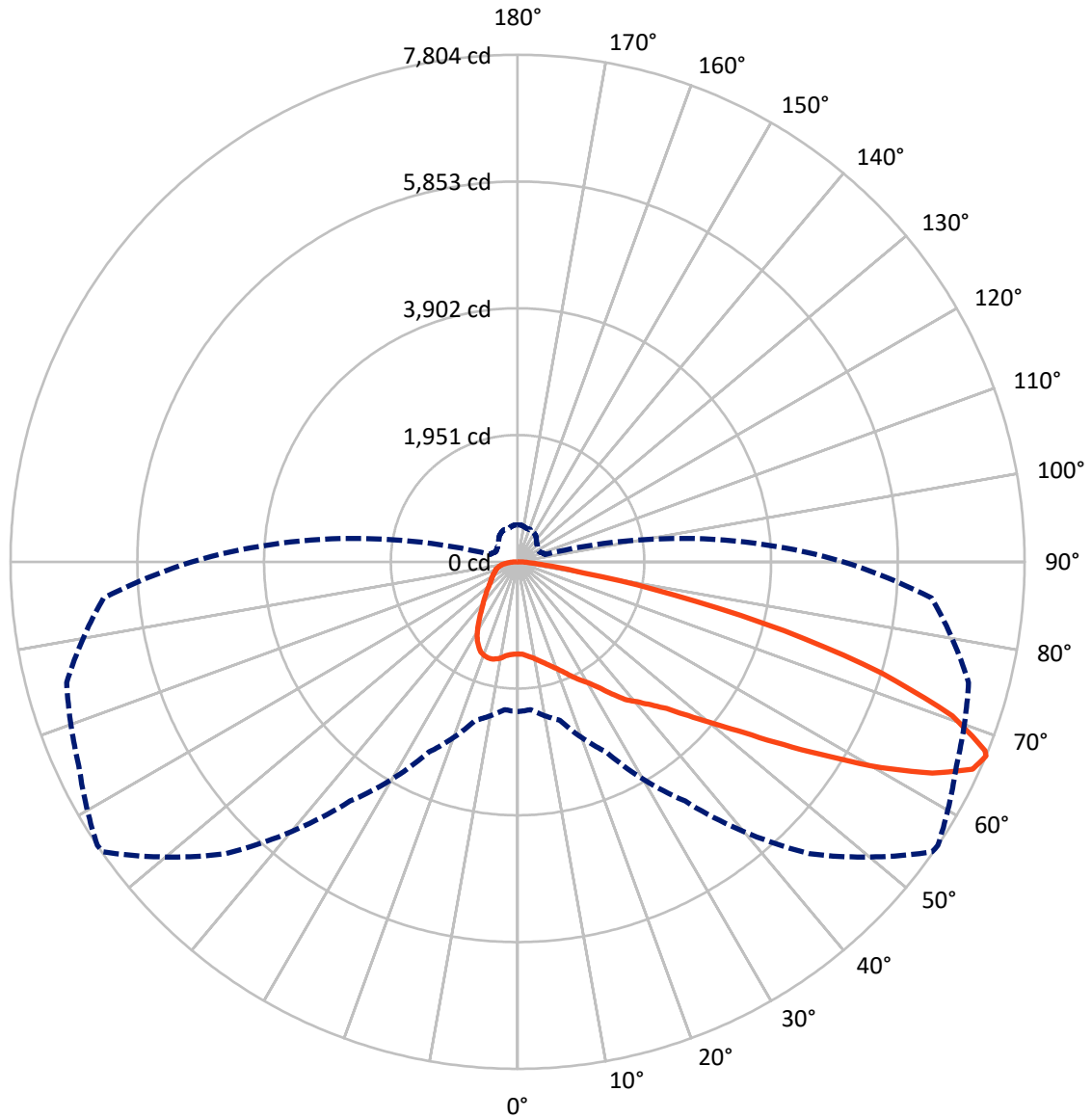
× Max cd
 - - - 1/2 Max cd



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

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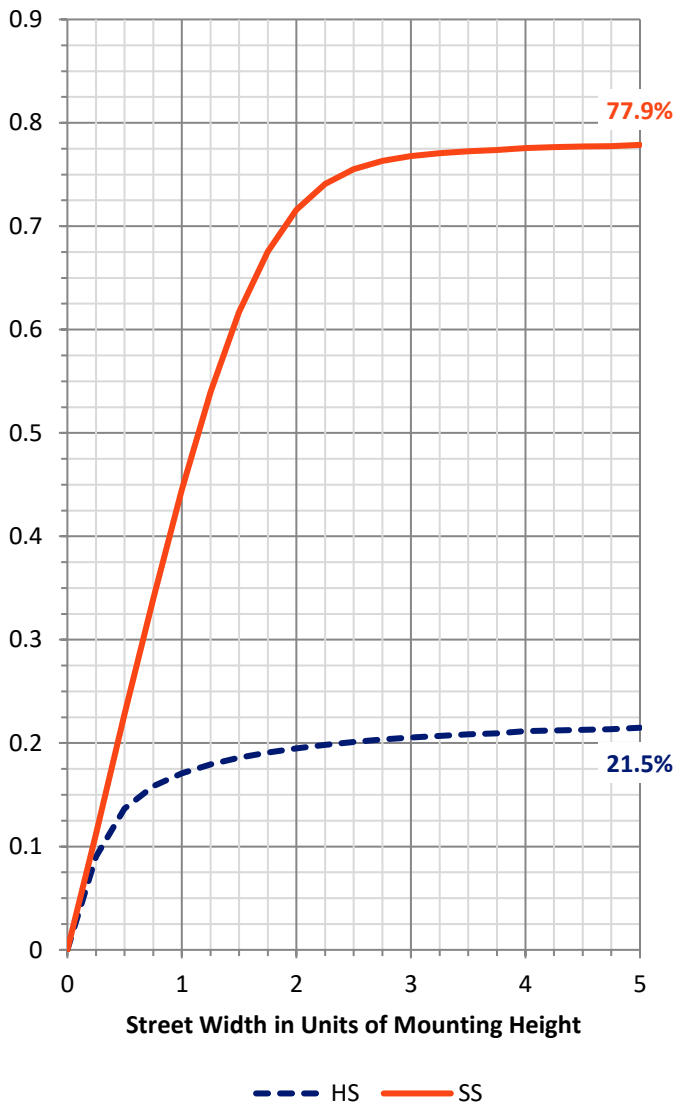
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2514.2	0.0	2514.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8977.8	0.0	8977.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	11492.0	0.0	11492.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.2
10°-20°	447.6	3.9
20°-30°	779.1	6.8
30°-40°	1142.3	9.9
40°-50°	1671.4	14.5
50°-60°	2612.1	22.7
60°-70°	3104.6	27.0
70°-80°	1414.0	12.3
80°-90°	181.3	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°	11492.0	100.0
0°-180°	11492.0	100.0



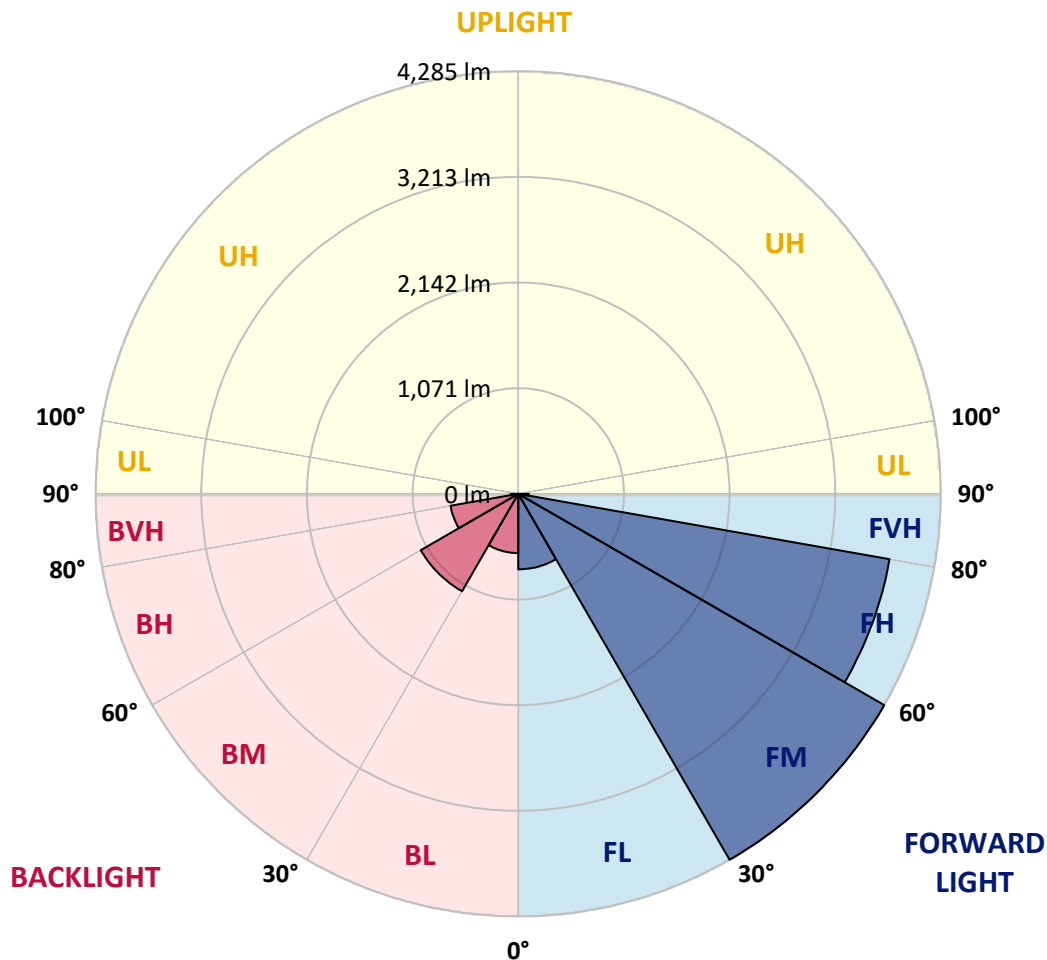
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.4	6.7			
FM (30°-60°)	4284.5	37.3			
FH (60°-80°)	3822.1	33.3			G2/5000
FVH (80°-90°)	105.7	0.9			G2/225
BL (0°-30°)	600.9	5.2	B2/1000		
BM (30°-60°)	1141.3	9.9	B2/2500		
BH (60°-80°)	696.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	75.6	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°	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8
2.5°	1440.6	1434.4	1431.3	1434.4	1431.3	1425.0	1428.1	1425.0	1421.9	1418.8	1418.8
5°	1459.3	1453.0	1449.9	1453.0	1456.1	1449.9	1449.9	1449.9	1440.6	1437.5	1431.3
7.5°	1471.7	1462.4	1462.4	1468.6	1474.8	1477.9	1484.2	1481.0	1471.7	1465.5	1453.0
10°	1512.2	1499.7	1499.7	1499.7	1505.9	1512.2	1518.4	1521.5	1518.4	1515.3	1505.9
12.5°	1574.4	1561.9	1561.9	1561.9	1561.9	1558.8	1568.2	1571.3	1577.5	1577.5	1561.9
15°	1658.4	1642.8	1636.6	1624.2	1621.1	1614.8	1627.3	1627.3	1636.6	1639.7	1624.2
17.5°	1739.3	1720.6	1714.4	1702.0	1689.5	1673.9	1686.4	1689.5	1708.2	1711.3	1686.4
20°	1823.3	1817.1	1807.7	1789.1	1767.3	1751.7	1764.2	1761.1	1776.6	1782.8	1751.7
22.5°	1932.2	1916.6	1910.4	1885.5	1860.6	1845.1	1845.1	1851.3	1866.9	1866.9	1820.2
25°	2062.9	2041.1	2025.5	1997.5	1966.4	1947.8	1950.9	1957.1	1978.9	1963.3	1891.7
27.5°	2224.7	2202.9	2181.1	2125.1	2094.0	2056.7	2053.5	2059.8	2094.0	2053.5	1960.2
30°	2377.1	2367.8	2349.1	2305.6	2255.8	2193.6	2165.6	2168.7	2193.6	2137.6	2019.3
32.5°	2507.8	2495.4	2486.0	2454.9	2420.7	2346.0	2308.7	2311.8	2308.7	2240.2	2090.9
35°	2663.4	2644.7	2638.5	2610.5	2566.9	2517.1	2501.6	2495.4	2476.7	2383.4	2184.2
37.5°	2812.7	2794.1	2784.7	2769.2	2734.9	2691.4	2691.4	2688.3	2650.9	2520.3	2277.6
40°	2990.1	2968.3	2940.3	2931.0	2903.0	2871.8	2847.0	2831.4	2766.1	2647.8	2458.0
42.5°	3204.8	3192.3	3176.8	3136.3	3092.8	3086.5	3015.0	3008.8	2962.1	2893.6	2713.2
45°	3512.8	3487.9	3466.1	3453.7	3400.8	3344.8	3245.2	3220.3	3220.3	3204.8	3011.9
47.5°	3823.9	3780.4	3811.5	3802.2	3789.7	3727.5	3534.6	3537.7	3531.5	3571.9	3450.6
50°	4032.4	4007.5	4094.6	4135.1	4222.2	4222.2	3945.3	3911.1	3936.0	4054.2	3898.6
52.5°	4194.2	4178.6	4278.2	4436.9	4695.1	4720.0	4433.8	4362.2	4396.4	4564.5	4502.2
55°	4324.9	4309.3	4424.5	4701.4	5115.2	5267.6	4997.0	4965.8	4897.4	5077.9	5096.5
57.5°	4402.7	4368.4	4542.7	4912.9	5457.4	5809.0	5656.6	5647.2	5488.6	5656.6	5740.6
60°	4284.4	4262.7	4502.2	5000.1	5734.4	6319.3	6431.3	6431.3	6148.2	6238.4	6341.1
62.5°	3901.7	3873.7	4125.8	4797.8	5768.6	6736.2	7199.8	7162.5	6782.9	6779.8	6689.6
65°	3173.7	3139.4	3422.6	4132.0	5336.1	6786.0	7719.5	7697.7	7259.0	7134.5	6711.4
67°	2305.6	2283.8	2526.5	3229.7	4496.0	6353.5	7784.8	7803.5	7448.8	7184.3	6397.1
67.5°	2069.1	2066.0	2268.2	2965.2	4250.2	6194.9	7741.2	7759.9	7445.7	7143.8	6272.6
70°	964.5	1008.1	1197.9	1698.8	2865.6	4878.7	7025.6	7097.2	7047.4	6677.1	5283.2
72.5°	448.0	466.7	550.7	821.4	1540.2	3145.7	5693.9	5865.0	6082.8	5728.1	4184.9
75°	276.9	283.1	329.8	426.3	725.0	1512.2	4054.2	4240.9	4570.7	4309.3	2675.8
77.5°	217.8	220.9	252.0	304.9	423.2	650.3	2224.7	2458.0	2887.4	2548.3	1347.2
80°	161.8	168.0	192.9	236.5	298.7	332.9	945.9	1033.0	1393.9	1067.2	560.1
82.5°	118.2	124.5	149.3	171.1	208.5	211.6	385.8	407.6	597.4	432.5	242.7
85°	99.6	99.6	115.1	127.6	140.0	118.2	189.8	186.7	230.2	196.0	96.5
87.5°	46.7	49.8	108.9	80.9	68.5	49.8	56.0	59.1	71.6	77.8	37.3
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°	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8	1418.8
2.5°	1415.7	1415.7	1415.7	1418.8	1421.9	1421.9	1425.0	1425.0	1428.1	1431.3	1437.5
5°	1428.1	1428.1	1425.0	1428.1	1434.4	1437.5	1443.7	1449.9	1456.1	1462.4	1465.5
7.5°	1453.0	1449.9	1449.9	1449.9	1456.1	1462.4	1471.7	1477.9	1487.3	1490.4	1496.6
10°	1499.7	1493.5	1493.5	1496.6	1499.7	1490.4	1487.3	1484.2	1493.5	1499.7	1505.9
12.5°	1555.7	1549.5	1546.4	1537.0	1524.6	1505.9	1490.4	1477.9	1481.0	1487.3	1496.6
15°	1614.8	1602.4	1596.2	1574.4	1543.3	1502.8	1477.9	1462.4	1462.4	1462.4	1471.7
17.5°	1677.1	1664.6	1639.7	1599.3	1540.2	1484.2	1453.0	1425.0	1412.6	1409.5	1415.7
20°	1736.2	1717.5	1677.1	1614.8	1521.5	1446.8	1406.4	1359.7	1341.0	1328.6	1334.8
22.5°	1792.2	1767.3	1711.3	1614.8	1490.4	1390.8	1319.2	1257.0	1225.9	1219.7	1222.8
25°	1851.3	1820.2	1745.5	1596.2	1421.9	1306.8	1207.2	1141.9	1101.4	1095.2	1104.6
27.5°	1910.4	1863.7	1773.5	1546.4	1344.1	1191.7	1085.9	1023.7	1001.9	989.4	992.5
30°	1960.2	1916.6	1801.5	1477.9	1238.3	1057.9	961.4	933.4	917.9	911.6	911.6
32.5°	2025.5	1985.1	1820.2	1397.0	1113.9	936.5	874.3	852.5	840.1	824.5	827.6
35°	2106.4	2069.1	1810.9	1294.4	995.7	855.6	805.9	774.7	746.7	725.0	721.9
37.5°	2215.3	2187.3	1764.2	1169.9	886.8	796.5	746.7	706.3	665.8	631.6	625.4
40°	2395.8	2330.5	1695.7	1033.0	812.1	749.9	690.7	641.0	591.2	553.8	544.5
42.5°	2626.0	2489.1	1602.4	893.0	749.9	700.1	641.0	575.6	528.9	494.7	494.7
45°	2893.6	2660.3	1490.4	787.2	684.5	650.3	578.7	522.7	494.7	472.9	469.8
47.5°	3211.0	2831.4	1347.2	703.2	631.6	606.7	535.2	500.9	482.3	463.6	460.5
50°	3637.3	3061.6	1241.5	631.6	578.7	556.9	522.7	494.7	476.0	463.6	460.5
52.5°	4125.8	3357.2	1166.8	575.6	535.2	525.8	519.6	497.8	479.2	469.8	466.7
55°	4654.7	3721.3	1095.2	528.9	500.9	513.4	525.8	504.1	491.6	479.2	472.9
57.5°	5152.5	4029.3	980.1	488.5	476.0	497.8	522.7	507.2	491.6	482.3	479.2
60°	5491.7	4184.9	821.4	451.2	451.2	476.0	513.4	491.6	476.0	479.2	479.2
62.5°	5600.6	4125.8	650.3	416.9	426.3	451.2	485.4	472.9	466.7	482.3	482.3
65°	5438.8	3886.2	519.6	388.9	401.4	420.0	469.8	482.3	500.9	535.2	538.3
67°	5015.6	3500.4	438.7	367.1	379.6	410.7	488.5	532.1	532.1	569.4	569.4
67.5°	4891.2	3369.7	426.3	360.9	376.5	410.7	497.8	544.5	532.1	575.6	575.6
70°	3976.4	2650.9	360.9	342.3	364.0	432.5	538.3	547.6	519.6	560.1	556.9
72.5°	2949.6	1916.6	329.8	323.6	339.1	407.6	535.2	525.8	485.4	497.8	488.5
75°	1823.3	1110.8	304.9	298.7	308.0	360.9	494.7	479.2	432.5	423.2	413.8
77.5°	880.5	563.2	261.4	270.7	280.0	314.3	435.6	420.0	379.6	357.8	354.7
80°	382.7	289.4	224.0	239.6	242.7	267.6	360.9	342.3	304.9	270.7	270.7
82.5°	189.8	161.8	177.4	199.1	192.9	214.7	283.1	252.0	224.0	186.7	180.5
85°	87.1	93.3	130.7	149.3	130.7	133.8	192.9	177.4	140.0	105.8	108.9
87.5°	31.1	43.6	74.7	90.2	65.3	62.2	102.7	74.7	43.6	12.4	15.6
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)