

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: P572766

Luminaire Tested: **ARCH-S-PA2-110-750-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572766
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-PA2-110-750-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15038 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

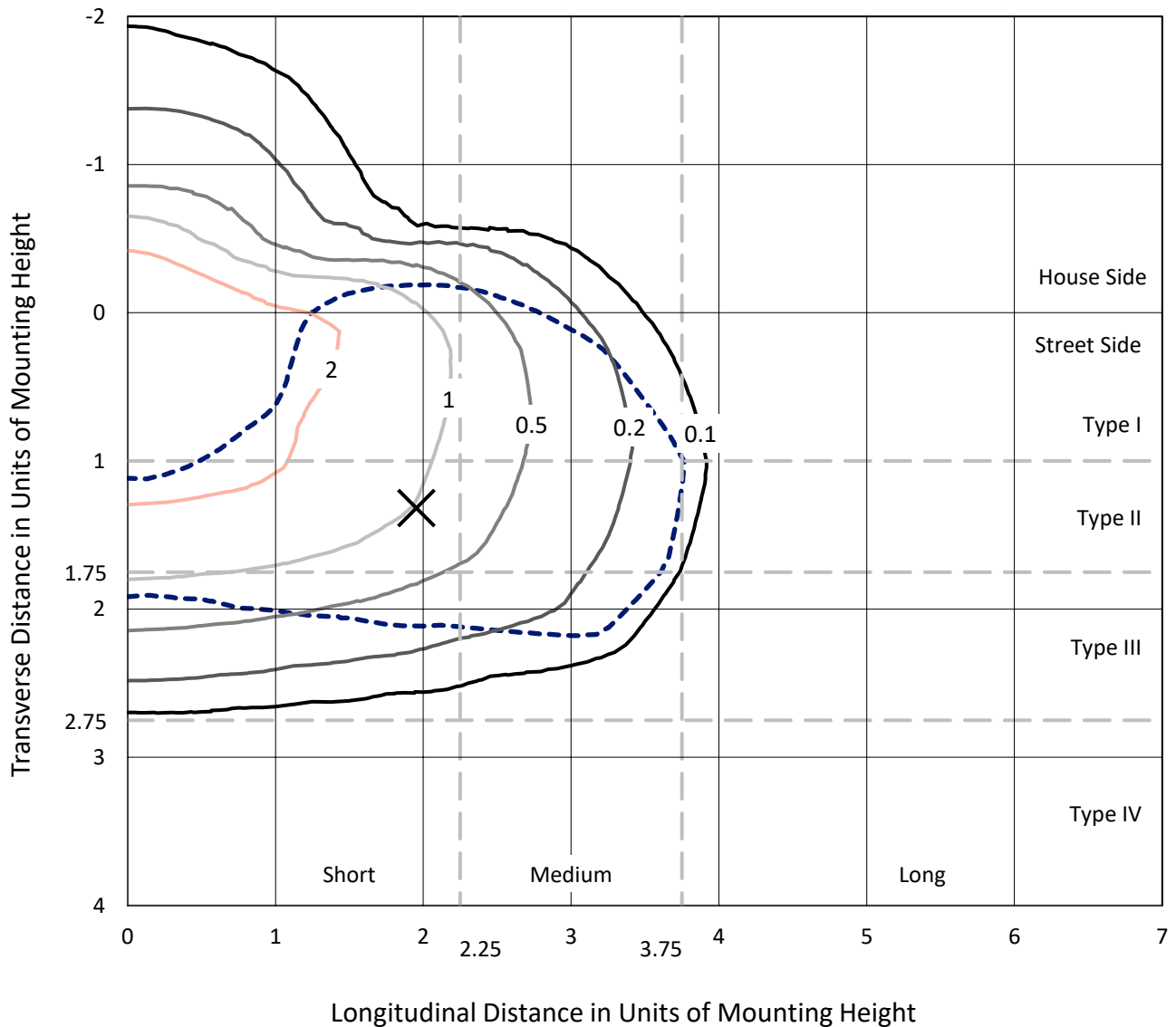
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

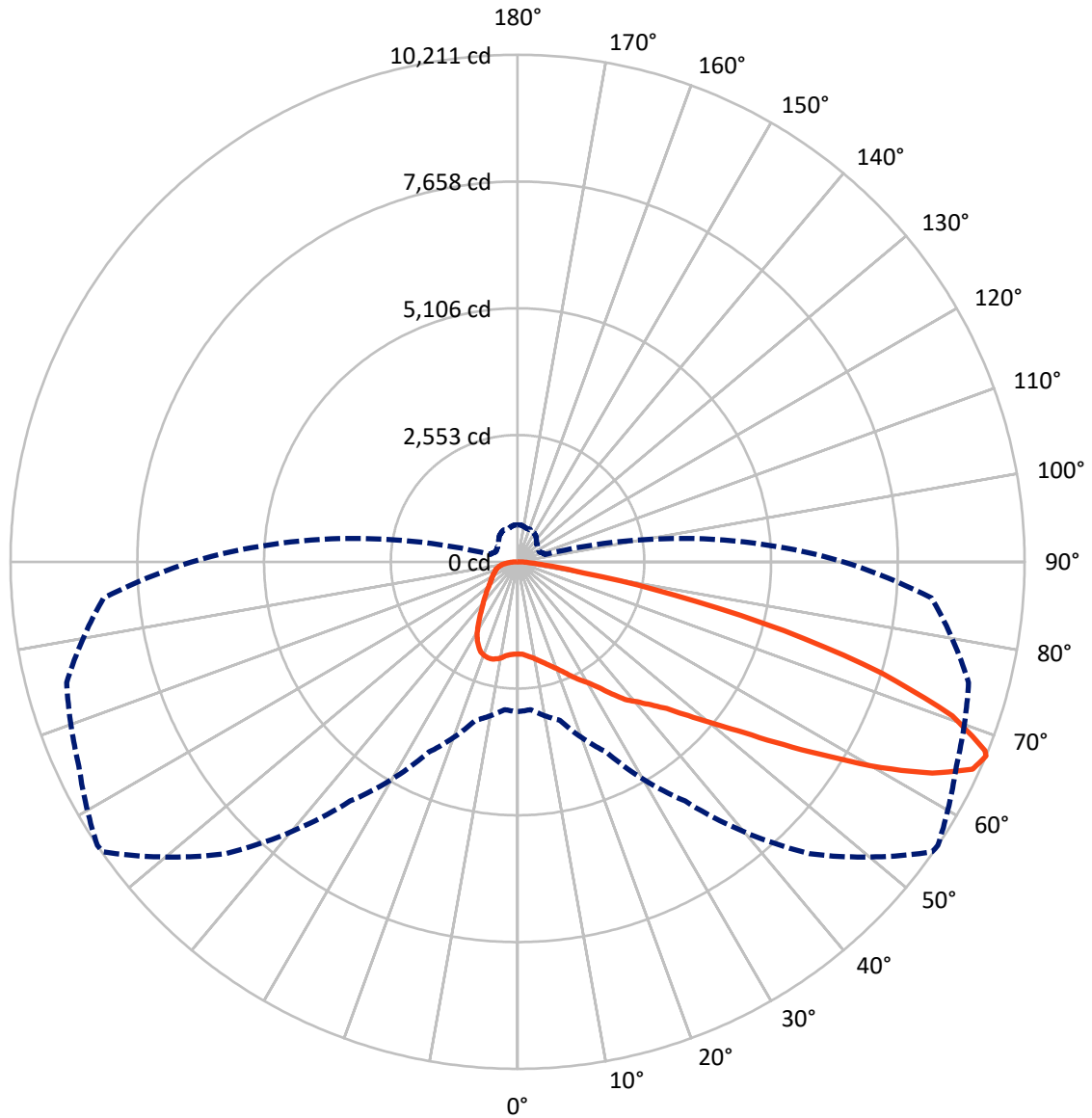
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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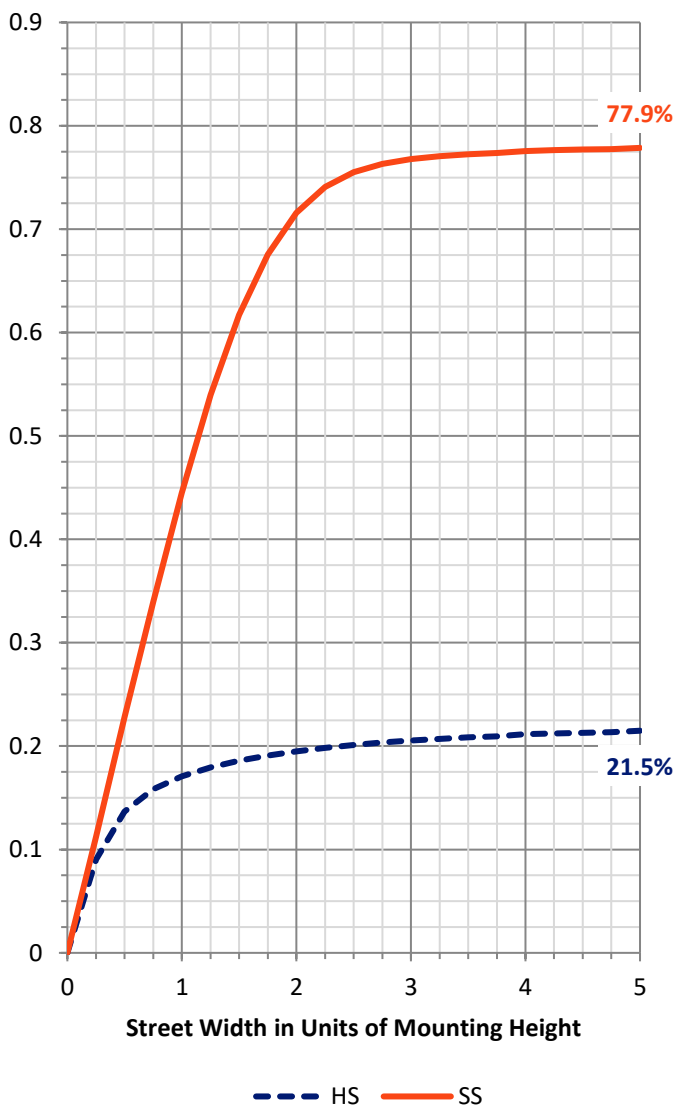
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3290.0	0.0	3290.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	11748.0	0.0	11748.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	15038.0	0.0	15038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.2
10°-20°	585.8	3.9
20°-30°	1019.5	6.8
30°-40°	1494.8	9.9
40°-50°	2187.1	14.5
50°-60°	3418.1	22.7
60°-70°	4062.6	27.0
70°-80°	1850.2	12.3
80°-90°	237.3	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°	15038.0	100.0
0°-180°	15038.0	100.0

Coefficient of Utilization



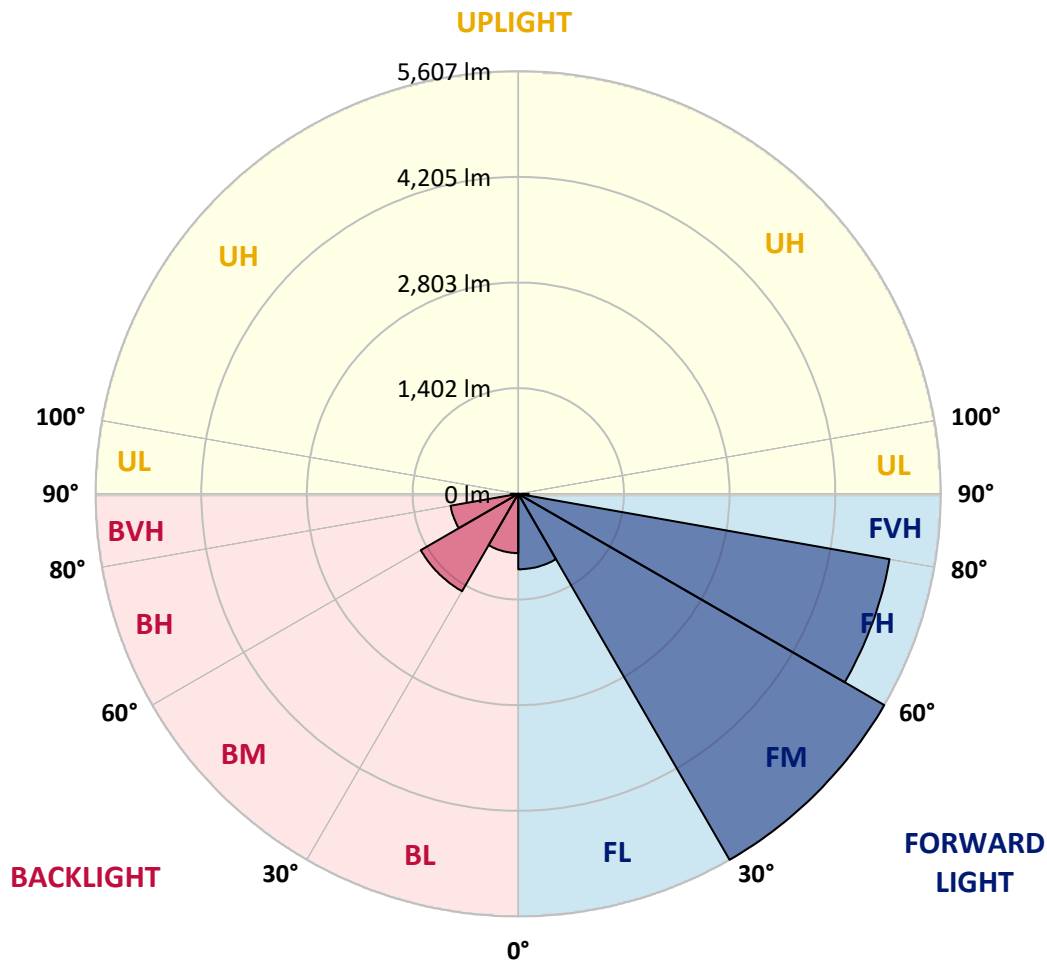
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.6	6.7			
FM (30°-60°)	5606.6	37.3			
FH (60°-80°)	5001.4	33.3			G3/7500
FVH (80°-90°)	138.4	0.9			G2/225
BL (0°-30°)	786.3	5.2	B2/1000		
BM (30°-60°)	1493.4	9.9	B2/2500		
BH (60°-80°)	911.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	98.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1885.1	1877.0	1872.9	1877.0	1872.9	1864.7	1868.8	1864.7	1860.7	1856.6	1856.6
5°	1909.5	1901.4	1897.3	1901.4	1905.5	1897.3	1897.3	1897.3	1885.1	1881.0	1872.9
7.5°	1925.8	1913.6	1913.6	1921.7	1929.9	1934.0	1942.1	1938.0	1925.8	1917.7	1901.4
10°	1978.7	1962.5	1962.5	1962.5	1970.6	1978.7	1986.9	1991.0	1986.9	1982.8	1970.6
12.5°	2060.2	2043.9	2043.9	2043.9	2043.9	2039.8	2052.0	2056.1	2064.3	2064.3	2043.9
15°	2170.1	2149.8	2141.6	2125.3	2121.3	2113.1	2129.4	2129.4	2141.6	2145.7	2125.3
17.5°	2276.0	2251.5	2243.4	2227.1	2210.8	2190.5	2206.8	2210.8	2235.3	2239.3	2206.8
20°	2385.9	2377.8	2365.5	2341.1	2312.6	2292.3	2308.5	2304.5	2324.8	2333.0	2292.3
22.5°	2528.4	2508.0	2499.9	2467.3	2434.8	2414.4	2414.4	2422.5	2442.9	2442.9	2381.8
25°	2699.4	2670.9	2650.5	2613.9	2573.2	2548.8	2552.8	2561.0	2589.5	2569.1	2475.5
27.5°	2911.1	2882.6	2854.1	2780.8	2740.1	2691.3	2687.2	2695.3	2740.1	2687.2	2565.0
30°	3110.6	3098.4	3074.0	3017.0	2951.8	2870.4	2833.8	2837.8	2870.4	2797.1	2642.4
32.5°	3281.6	3265.3	3253.1	3212.4	3167.6	3069.9	3021.1	3025.1	3021.1	2931.5	2736.0
35°	3485.2	3460.8	3452.6	3416.0	3359.0	3293.8	3273.5	3265.3	3240.9	3118.8	2858.2
37.5°	3680.6	3656.2	3644.0	3623.6	3578.8	3521.8	3521.8	3517.8	3468.9	3297.9	2980.3
40°	3912.7	3884.2	3847.6	3835.4	3798.7	3758.0	3725.4	3705.1	3619.6	3464.8	3216.5
42.5°	4193.6	4177.4	4157.0	4104.1	4047.1	4038.9	3945.3	3937.1	3876.1	3786.5	3550.3
45°	4596.7	4564.2	4535.7	4519.4	4450.1	4376.9	4246.6	4214.0	4214.0	4193.6	3941.2
47.5°	5003.9	4946.9	4987.6	4975.4	4959.1	4877.7	4625.2	4629.3	4621.2	4674.1	4515.3
50°	5276.7	5244.1	5358.1	5411.0	5525.0	5525.0	5162.7	5117.9	5150.4	5305.2	5101.6
52.5°	5488.4	5468.0	5598.3	5806.0	6143.9	6176.5	5801.9	5708.2	5753.0	5972.9	5891.5
55°	5659.4	5639.0	5789.7	6152.0	6693.5	6893.0	6538.8	6498.1	6408.5	6644.7	6669.1
57.5°	5761.2	5716.4	5944.4	6428.9	7141.4	7601.5	7402.0	7389.8	7182.1	7402.0	7511.9
60°	5606.5	5578.0	5891.5	6542.9	7503.8	8269.2	8415.8	8415.8	8045.3	8163.4	8297.7
62.5°	5105.7	5069.0	5398.8	6278.3	7548.6	8814.8	9421.4	9372.6	8875.9	8871.8	8753.7
65°	4152.9	4108.1	4478.6	5407.0	6982.6	8879.9	10101.4	10072.9	9498.8	9335.9	8782.2
67°	3017.0	2988.5	3306.1	4226.2	5883.3	8314.0	10186.9	10211.3	9747.2	9401.1	8371.0
67.5°	2707.5	2703.5	2968.1	3880.1	5561.7	8106.4	10129.9	10154.3	9743.1	9348.2	8208.1
70°	1262.2	1319.2	1567.5	2223.0	3749.9	6384.1	9193.4	9287.1	9221.9	8737.4	6913.4
72.5°	586.3	610.7	720.7	1074.9	2015.4	4116.3	7450.8	7674.8	7959.8	7495.6	5476.2
75°	362.4	370.5	431.6	557.8	948.7	1978.7	5305.2	5549.5	5981.0	5639.0	3501.5
77.5°	285.0	289.1	329.8	399.0	553.7	850.9	2911.1	3216.5	3778.4	3334.6	1763.0
80°	211.7	219.9	252.4	309.4	390.9	435.7	1237.7	1351.7	1824.0	1396.5	732.9
82.5°	154.7	162.9	195.4	223.9	272.8	276.9	504.9	533.4	781.7	565.9	317.6
85°	130.3	130.3	150.6	166.9	183.2	154.7	248.4	244.3	301.3	256.5	126.2
87.5°	61.1	65.1	142.5	105.9	89.6	65.1	73.3	77.4	93.6	101.8	48.9
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°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1852.5	1852.5	1852.5	1856.6	1860.7	1860.7	1864.7	1864.7	1868.8	1872.9	1881.0
5°	1868.8	1868.8	1864.7	1868.8	1877.0	1881.0	1889.2	1897.3	1905.5	1913.6	1917.7
7.5°	1901.4	1897.3	1897.3	1897.3	1905.5	1913.6	1925.8	1934.0	1946.2	1950.2	1958.4
10°	1962.5	1954.3	1954.3	1958.4	1962.5	1950.2	1946.2	1942.1	1954.3	1962.5	1970.6
12.5°	2035.7	2027.6	2023.5	2011.3	1995.0	1970.6	1950.2	1934.0	1938.0	1946.2	1958.4
15°	2113.1	2096.8	2088.7	2060.2	2019.5	1966.5	1934.0	1913.6	1913.6	1913.6	1925.8
17.5°	2194.5	2178.3	2145.7	2092.8	2015.4	1942.1	1901.4	1864.7	1848.5	1844.4	1852.5
20°	2271.9	2247.5	2194.5	2113.1	1991.0	1893.2	1840.3	1779.2	1754.8	1738.5	1746.7
22.5°	2345.2	2312.6	2239.3	2113.1	1950.2	1820.0	1726.3	1644.9	1604.2	1596.0	1600.1
25°	2422.5	2381.8	2284.1	2088.7	1860.7	1710.0	1579.7	1494.2	1441.3	1433.2	1445.4
27.5°	2499.9	2438.8	2320.8	2023.5	1758.9	1559.4	1421.0	1339.5	1311.0	1294.7	1298.8
30°	2565.0	2508.0	2357.4	1934.0	1620.5	1384.3	1258.1	1221.4	1201.1	1192.9	1192.9
32.5°	2650.5	2597.6	2381.8	1828.1	1457.6	1225.5	1144.1	1115.6	1099.3	1078.9	1083.0
35°	2756.4	2707.5	2369.6	1693.7	1302.9	1119.7	1054.5	1013.8	977.2	948.7	944.6
37.5°	2898.9	2862.3	2308.5	1530.9	1160.4	1042.3	977.2	924.2	871.3	826.5	818.4
40°	3135.1	3049.6	2219.0	1351.7	1062.7	981.2	903.9	838.7	773.6	724.7	712.5
42.5°	3436.3	3257.2	2096.8	1168.5	981.2	916.1	838.7	753.2	692.2	647.4	647.4
45°	3786.5	3481.1	1950.2	1030.1	895.7	850.9	757.3	684.0	647.4	618.9	614.8
47.5°	4201.8	3705.1	1763.0	920.2	826.5	793.9	700.3	655.5	631.1	606.7	602.6
50°	4759.6	4006.4	1624.5	826.5	757.3	728.8	684.0	647.4	622.9	606.7	602.6
52.5°	5398.8	4393.1	1526.8	753.2	700.3	688.1	679.9	651.4	627.0	614.8	610.7
55°	6091.0	4869.5	1433.2	692.2	655.5	671.8	688.1	659.6	643.3	627.0	618.9
57.5°	6742.4	5272.6	1282.5	639.2	622.9	651.4	684.0	663.7	643.3	631.1	627.0
60°	7186.2	5476.2	1074.9	590.4	590.4	622.9	671.8	643.3	622.9	627.0	627.0
62.5°	7328.7	5398.8	850.9	545.6	557.8	590.4	635.2	618.9	610.7	631.1	631.1
65°	7117.0	5085.3	679.9	508.9	525.2	549.7	614.8	631.1	655.5	700.3	704.4
67°	6563.3	4580.4	574.1	480.4	496.7	537.4	639.2	696.2	696.2	745.1	745.1
67.5°	6400.4	4409.4	557.8	472.3	492.7	537.4	651.4	712.5	696.2	753.2	753.2
70°	5203.4	3468.9	472.3	447.9	476.4	565.9	704.4	716.6	679.9	732.9	728.8
72.5°	3859.8	2508.0	431.6	423.4	443.8	533.4	700.3	688.1	635.2	651.4	639.2
75°	2385.9	1453.5	399.0	390.9	403.1	472.3	647.4	627.0	565.9	553.7	541.5
77.5°	1152.2	736.9	342.0	354.2	366.4	411.2	570.0	549.7	496.7	468.2	464.2
80°	500.8	378.6	293.1	313.5	317.6	350.1	472.3	447.9	399.0	354.2	354.2
82.5°	248.4	211.7	232.1	260.6	252.4	280.9	370.5	329.8	293.1	244.3	236.1
85°	114.0	122.1	171.0	195.4	171.0	175.1	252.4	232.1	183.2	138.4	142.5
87.5°	40.7	57.0	97.7	118.1	85.5	81.4	134.4	97.7	57.0	16.3	20.4
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)