

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: P399683

Luminaire Tested: **ARCH-L-PA3-170-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-170-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20755 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

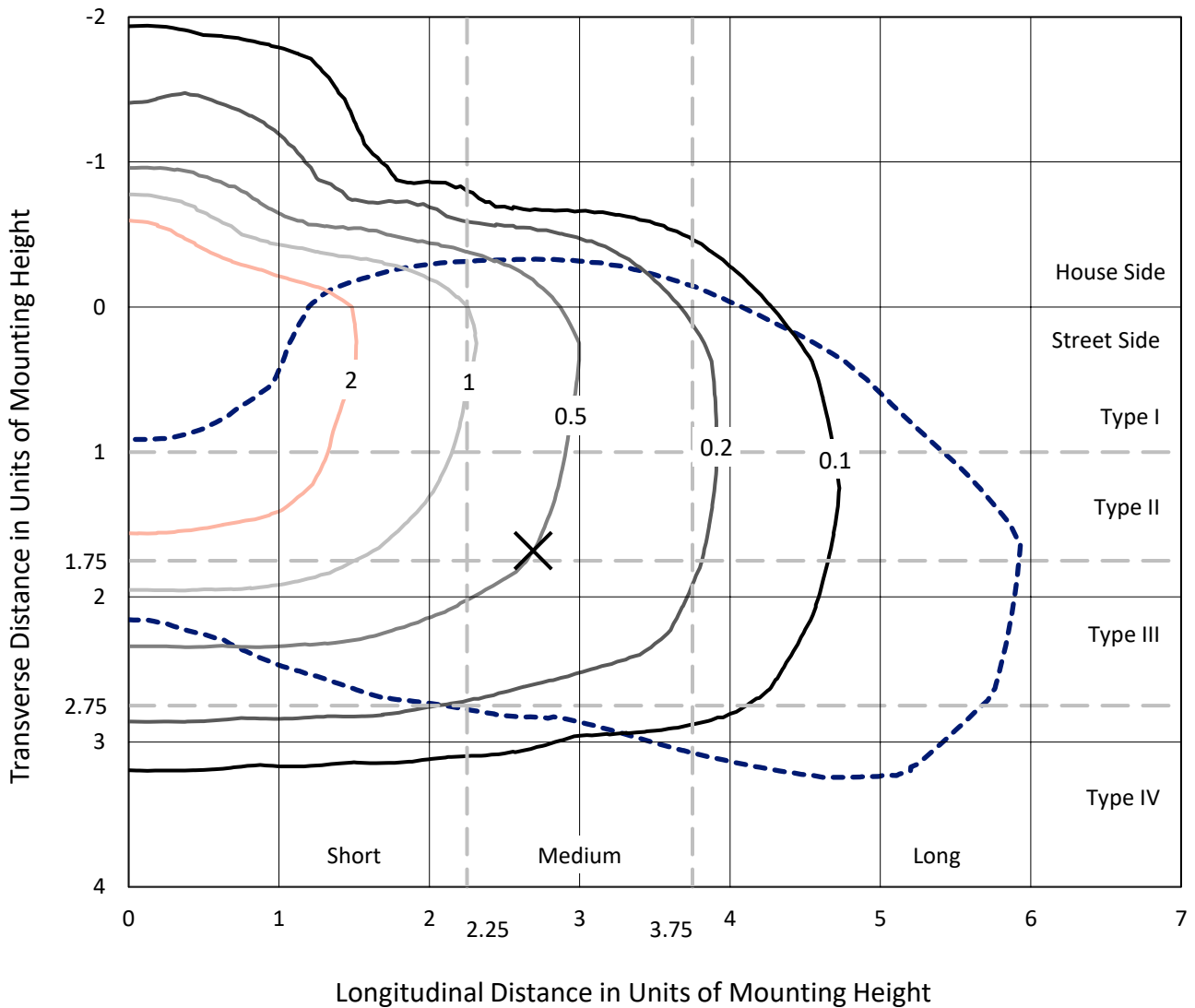
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

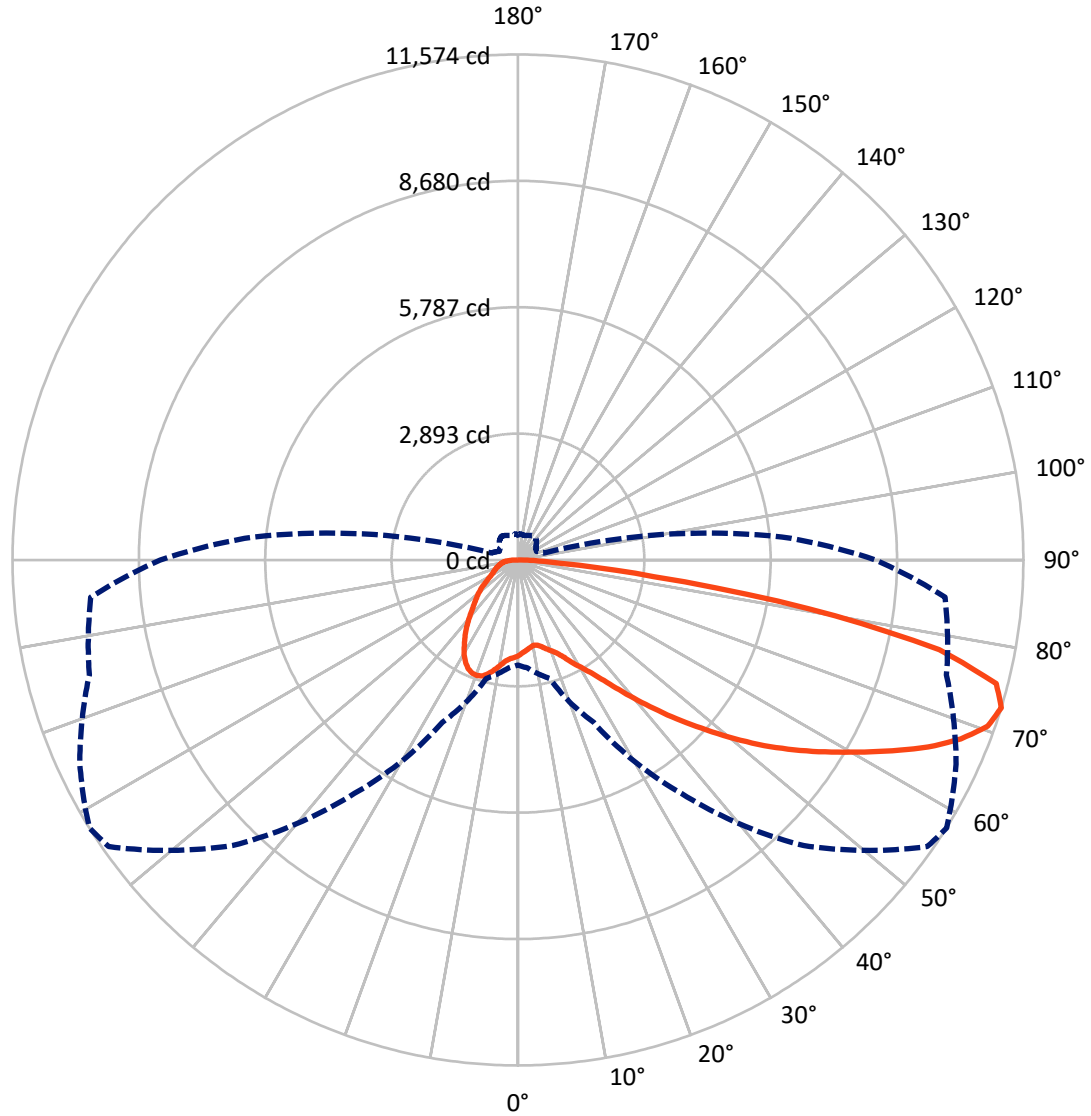
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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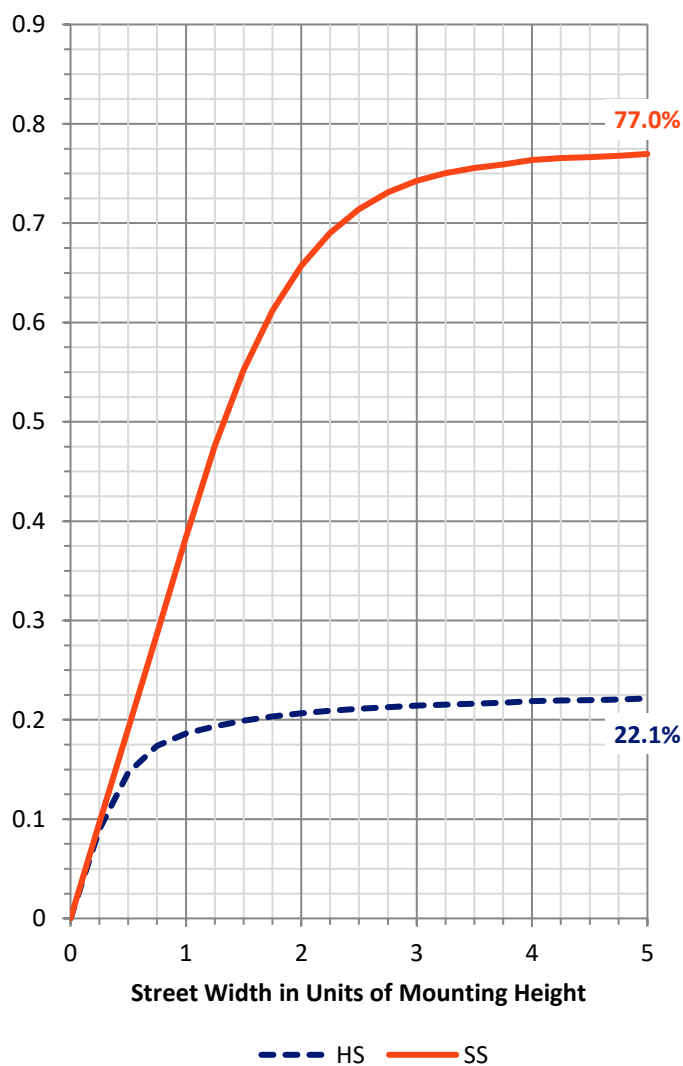
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4707.0	0.0	4707.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16048.0	0.0	16048.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	20755.0	0.0	20755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	1.0
10°-20°	669.7	3.2
20°-30°	1199.7	5.8
30°-40°	1804.7	8.7
40°-50°	2922.5	14.1
50°-60°	4399.2	21.2
60°-70°	5177.4	24.9
70°-80°	3671.3	17.7
80°-90°	699.6	3.4
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°	20755.0	100.0
0°-180°	20755.0	100.0

Coefficient of Utilization

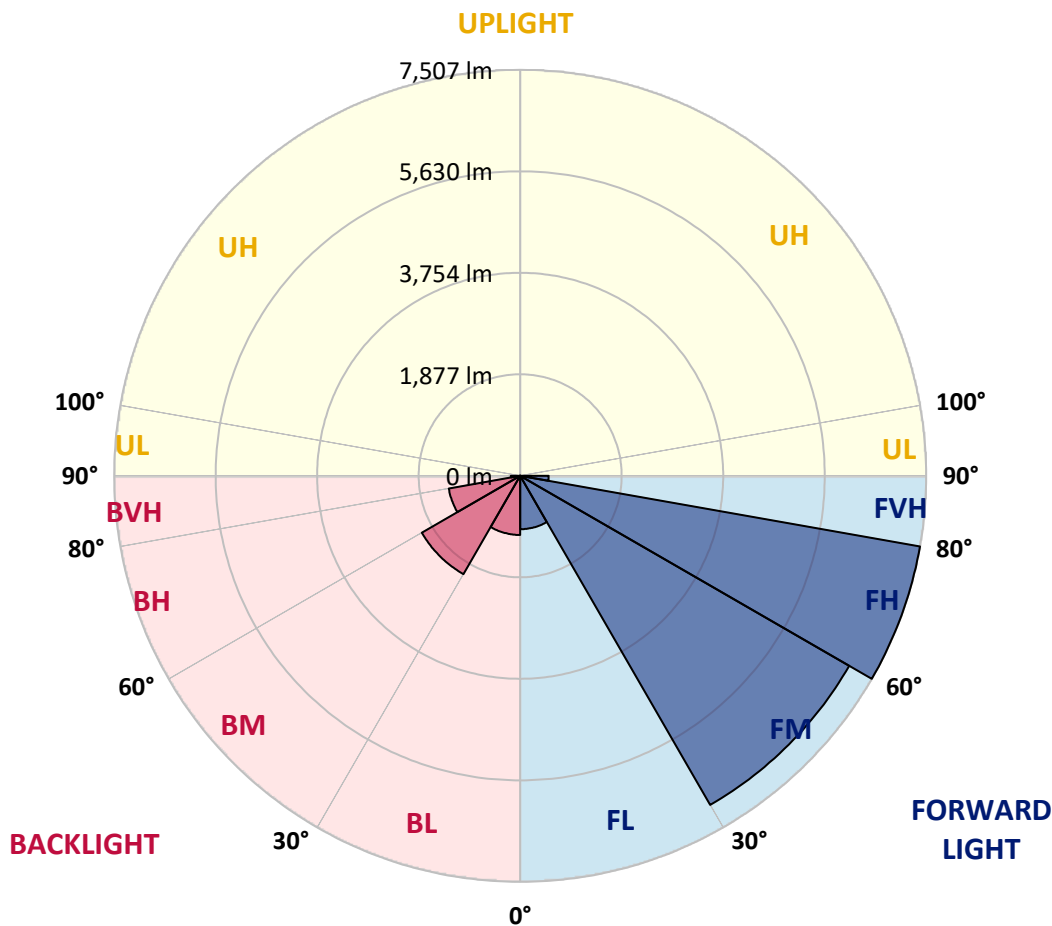


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.0	4.8			
FM (30°-60°)	7026.2	33.9			
FH (60°-80°)	7507.2	36.2			G4/12000
FVH (80°-90°)	527.7	2.5			G4/750
BL (0°-30°)	1093.4	5.3	B3/2500		
BM (30°-60°)	2100.2	10.1	B2/2500		
BH (60°-80°)	1341.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	171.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2
2.5°	2107.0	2096.1	2098.8	2098.8	2109.8	2115.2	2118.0	2126.2	2131.7	2145.4	2164.6
5°	2008.4	2000.2	2002.9	2005.6	2024.8	2044.0	2060.4	2071.4	2087.8	2109.8	2137.2
7.5°	1937.1	1931.7	1934.4	1939.9	1956.3	1978.2	2005.6	2022.1	2046.7	2087.8	2134.4
10°	1885.1	1885.1	1887.8	1898.8	1915.2	1942.6	1964.5	1983.7	2033.0	2107.0	2178.3
12.5°	1844.0	1844.0	1852.2	1874.1	1901.5	1928.9	1981.0	2002.9	2068.7	2170.0	2255.0
15°	1841.2	1844.0	1846.7	1865.9	1896.0	1956.3	2033.0	2065.9	2145.4	2265.9	2364.6
17.5°	1885.1	1887.8	1876.9	1882.3	1918.0	2002.9	2104.3	2142.6	2244.0	2375.5	2476.9
20°	2019.3	2019.3	1986.5	1956.3	1981.0	2074.1	2189.2	2227.6	2339.9	2485.1	2586.5
22.5°	2293.3	2307.0	2230.3	2164.6	2126.2	2178.3	2282.4	2323.5	2449.5	2605.7	2707.1
25°	2624.9	2638.6	2534.4	2441.3	2370.0	2361.8	2430.3	2474.2	2578.3	2739.9	2824.9
27.5°	2945.4	2920.8	2824.9	2737.2	2646.8	2572.8	2624.9	2663.2	2783.8	2907.1	2959.1
30°	3197.5	3178.3	3085.2	3022.2	2937.2	2841.3	2811.2	2852.3	2950.9	3066.0	3093.4
32.5°	3477.0	3463.3	3370.1	3287.9	3216.7	3126.3	3060.5	3079.7	3134.5	3216.7	3233.1
35°	3833.2	3863.3	3764.7	3597.5	3518.1	3430.4	3383.8	3389.3	3430.4	3482.5	3455.1
37.5°	4208.5	4244.2	4249.6	3986.6	3879.8	3800.3	3751.0	3770.2	3819.5	3855.1	3770.2
40°	4904.5	4868.9	4726.4	4531.9	4367.5	4290.7	4222.2	4219.5	4255.1	4318.1	4164.7
42.5°	5827.9	5795.0	5507.3	5255.2	4994.9	4907.2	4773.0	4715.4	4731.9	4811.3	4597.6
45°	6712.9	6699.2	6469.0	6175.8	5863.5	5693.6	5386.7	5247.0	5233.3	5296.3	5041.5
47.5°	7499.2	7438.9	7271.8	7044.4	7011.5	6567.6	6003.2	5814.2	5748.4	5784.0	5499.1
50°	8340.4	8134.9	7904.7	7765.0	8003.4	7589.6	6625.2	6427.9	6266.2	6290.9	5995.0
52.5°	8787.0	8441.8	8291.1	8332.2	8652.7	8493.8	7301.9	7060.8	6800.5	6836.1	6488.2
55°	8403.4	8400.7	8466.4	8721.2	9167.8	8984.3	7945.8	7674.6	7389.6	7397.8	7055.3
57.5°	7877.3	7984.2	8323.9	8885.6	9806.2	9499.4	8578.7	8291.1	8030.8	7989.7	7699.2
60°	7397.8	7515.7	8008.8	8858.2	10028.2	9970.6	9181.5	8929.5	8718.5	8597.9	8376.0
62.5°	6669.0	6756.7	7455.4	8682.9	9841.9	10310.4	9792.5	9619.9	9461.0	9211.7	9104.8
65°	5811.4	5841.5	6578.6	8104.7	9609.0	10441.9	10400.8	10324.1	10170.7	9803.5	9825.4
67.5°	4882.6	4942.8	5589.5	7181.4	9099.3	10381.6	10872.1	10935.1	10754.3	10203.5	10285.7
70°	3893.5	3967.4	4457.9	5904.6	8233.5	10121.3	11307.7	11409.1	11061.1	10335.0	10370.7
72.5°	2408.4	2479.6	2808.4	4101.7	6526.5	9247.3	11442.0	11573.5	11069.4	10159.7	9817.2
75°	832.9	841.2	1098.7	1967.3	3874.3	6981.4	11003.6	11313.2	10721.4	9521.3	8543.1
77.5°	380.9	394.6	487.7	811.0	1717.9	3767.4	9085.6	9861.0	9663.8	8524.0	6575.9
80°	263.0	268.5	337.0	485.0	991.9	1326.1	5734.7	6745.7	7091.0	6600.5	4214.0
82.5°	197.3	202.8	260.3	328.8	715.1	643.9	2183.7	3134.5	3896.2	3825.0	1761.8
85°	189.1	186.3	202.8	219.2	476.7	383.6	706.9	969.9	1520.7	1301.5	443.9
87.5°	82.2	90.4	208.2	123.3	249.3	178.1	306.9	358.9	463.0	402.8	158.9
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°	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2	2189.2
2.5°	2172.8	2178.3	2194.7	2219.4	2233.1	2260.4	2279.6	2290.6	2298.8	2301.5	2301.5
5°	2153.6	2164.6	2200.2	2241.3	2279.6	2337.2	2389.2	2419.4	2441.3	2449.5	2452.2
7.5°	2159.1	2186.5	2238.5	2298.8	2348.1	2422.1	2485.1	2545.4	2594.7	2613.9	2613.9
10°	2211.1	2249.5	2320.7	2400.2	2463.2	2539.9	2605.7	2657.7	2715.3	2748.2	2753.6
12.5°	2290.6	2337.2	2430.3	2518.0	2589.2	2649.5	2709.8	2748.2	2775.6	2800.2	2805.7
15°	2402.9	2460.5	2553.6	2644.0	2707.1	2745.4	2761.9	2761.9	2759.1	2761.9	2767.3
17.5°	2515.3	2570.1	2663.2	2753.6	2783.8	2761.9	2742.7	2737.2	2734.5	2729.0	2731.7
20°	2624.9	2676.9	2756.4	2824.9	2800.2	2723.5	2698.8	2696.1	2687.9	2682.4	2676.9
22.5°	2734.5	2772.8	2838.6	2863.2	2764.6	2655.0	2624.9	2608.4	2597.5	2583.8	2570.1
25°	2860.5	2871.5	2920.8	2882.4	2676.9	2529.0	2485.1	2460.5	2449.5	2435.8	2424.8
27.5°	2978.3	2978.3	2986.5	2852.3	2548.1	2361.8	2296.1	2252.2	2249.5	2246.7	2244.0
30°	3085.2	3071.5	3044.1	2761.9	2381.0	2156.3	2057.7	2013.9	2030.3	2044.0	2046.7
32.5°	3211.2	3183.8	3107.1	2638.6	2181.0	1926.2	1805.6	1786.4	1805.6	1822.1	1811.1
35°	3408.5	3359.2	3172.8	2496.1	1989.2	1715.2	1600.1	1572.7	1567.2	1564.5	1542.6
37.5°	3690.7	3605.8	3224.9	2342.6	1800.1	1528.9	1443.9	1386.4	1334.4	1279.6	1271.3
40°	4035.9	3890.7	3260.5	2167.3	1600.1	1372.7	1282.3	1208.3	1120.6	1024.7	1013.8
42.5°	4414.0	4197.6	3277.0	1972.8	1424.8	1243.9	1131.6	1038.4	939.8	865.8	852.1
45°	4822.3	4529.1	3263.3	1786.4	1282.3	1134.3	1008.3	906.9	827.5	775.4	764.4
47.5°	5219.6	4910.0	3224.9	1638.5	1172.7	1041.2	912.4	819.2	759.0	701.4	687.7
50°	5729.2	5274.4	3178.3	1523.4	1052.1	948.0	852.1	753.5	685.0	657.6	652.1
52.5°	6293.6	5638.8	3123.5	1378.2	934.3	874.0	813.8	726.1	704.2	652.1	643.9
55°	6904.6	6071.7	3112.6	1194.6	830.2	822.0	775.4	750.7	756.2	652.1	638.4
57.5°	7548.5	6534.8	3137.2	1011.0	745.3	775.4	791.8	772.7	764.4	665.8	638.4
60°	8219.8	6981.4	3063.3	841.2	679.5	737.0	811.0	761.7	701.4	660.3	641.1
62.5°	8871.9	7356.7	2742.7	720.6	630.2	726.1	800.1	720.6	652.1	652.1	643.9
65°	9345.9	7523.9	2145.4	632.9	597.3	712.4	780.9	693.2	638.4	657.6	646.6
67.5°	9400.7	7351.3	1441.2	564.4	569.9	687.7	737.0	668.5	624.7	674.0	657.6
70°	9063.7	6901.9	882.3	512.4	534.3	643.9	698.7	643.9	605.5	660.3	635.7
72.5°	8189.7	6063.5	622.0	468.5	495.9	602.8	663.1	622.0	578.1	597.3	572.6
75°	6718.3	4699.0	493.2	427.4	457.6	564.4	632.9	589.1	545.2	537.0	520.6
77.5°	4759.3	3011.2	397.3	394.6	416.5	517.8	591.8	550.7	506.9	490.4	479.5
80°	2737.2	1476.8	342.5	356.2	378.1	471.3	542.5	506.9	465.8	441.1	424.7
82.5°	1046.7	515.1	301.4	309.6	334.3	422.0	493.2	463.0	422.0	443.9	372.6
85°	339.8	282.2	246.6	254.8	279.5	350.7	435.7	411.0	364.4	323.3	298.7
87.5°	150.7	153.4	131.5	145.2	175.4	232.9	317.8	301.4	265.8	221.9	213.7
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)