

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: P399600

Luminaire Tested: **ARCH-L-PA3-160-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18266 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

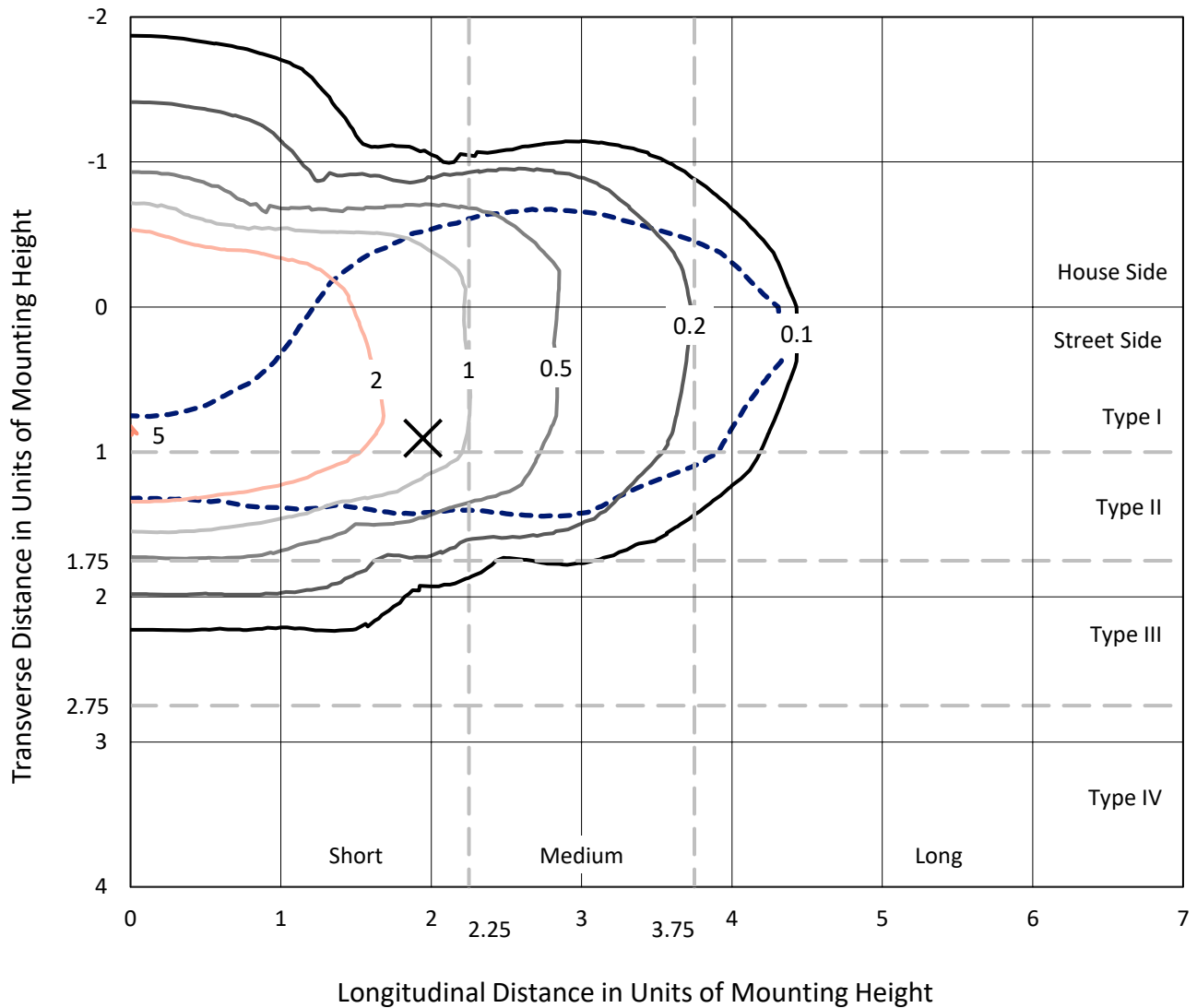
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

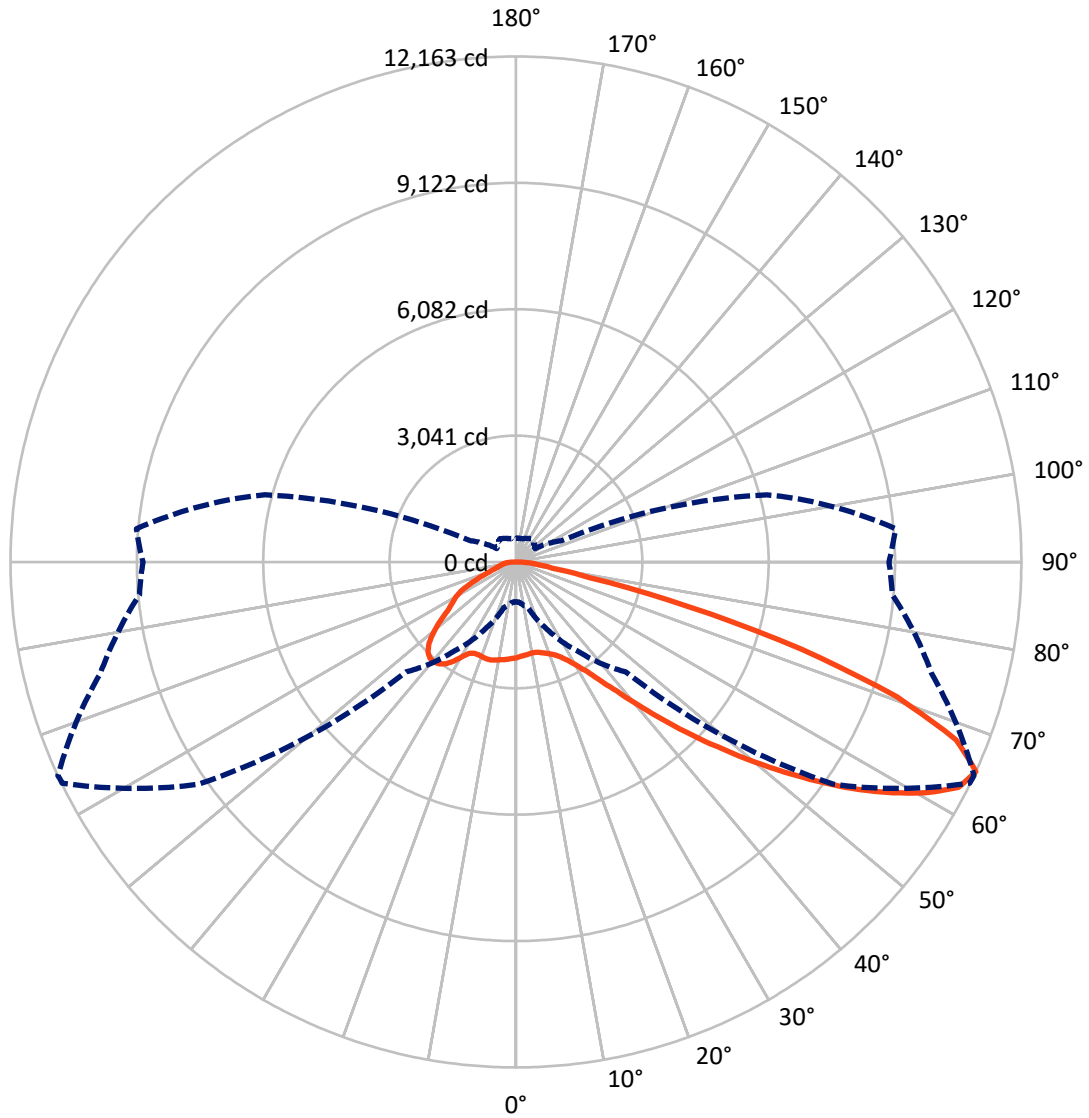
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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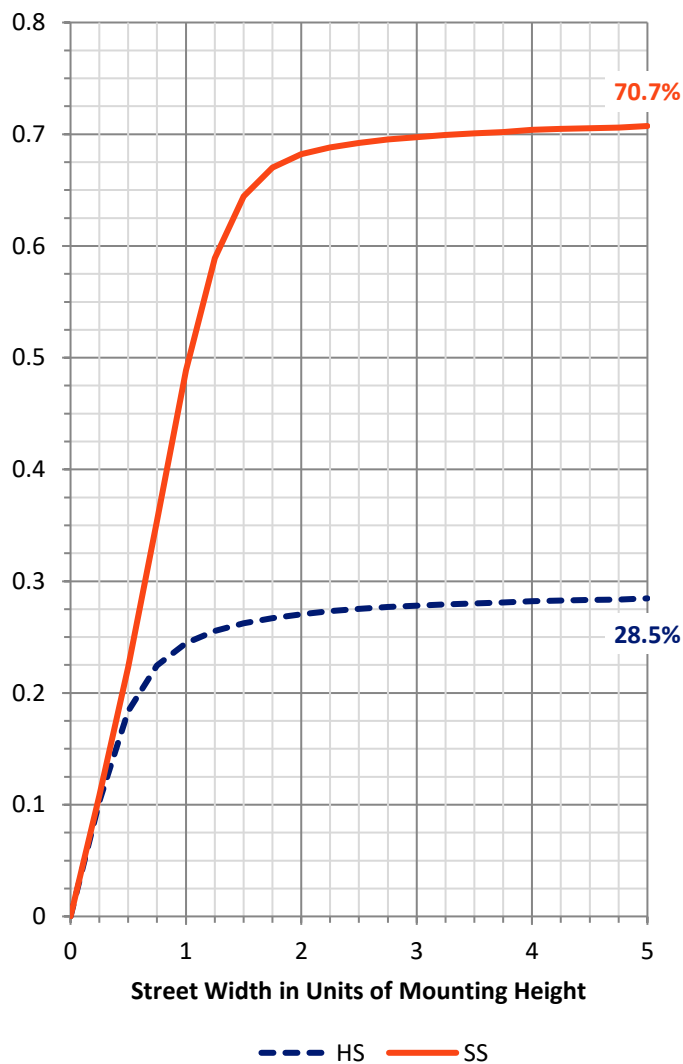
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5281.0	0.0	5281.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	12985.0	0.0	12985.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	18266.0	0.0	18266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.2
10°-20°	656.5	3.6
20°-30°	1166.2	6.4
30°-40°	1972.9	10.8
40°-50°	3434.4	18.8
50°-60°	4438.3	24.3
60°-70°	3883.8	21.3
70°-80°	2112.5	11.6
80°-90°	381.7	2.1
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°	18266.0	100.0
0°-180°	18266.0	100.0

Coefficient of Utilization

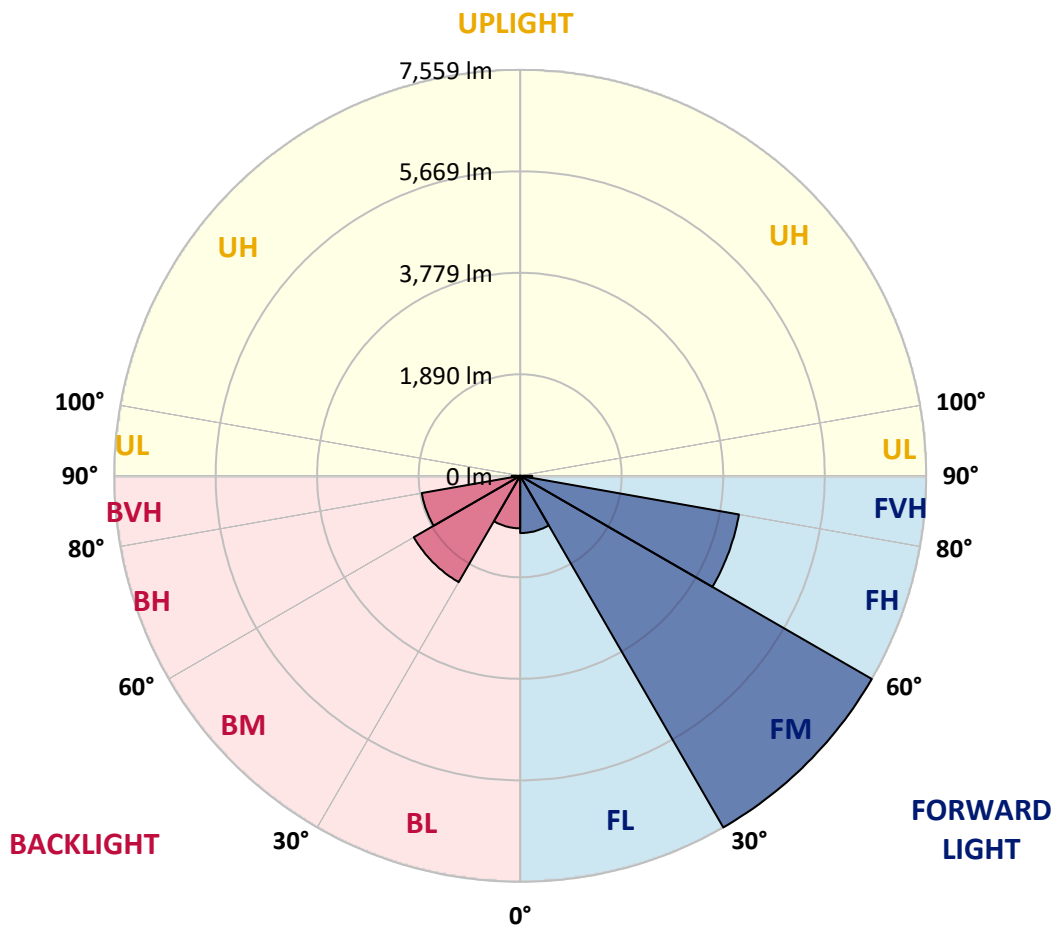


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.8	5.8			
FM (30°-60°)	7559.0	41.4			
FH (60°-80°)	4135.7	22.6			G2/5000
FVH (80°-90°)	224.6	1.2			G2/225
BL (0°-30°)	976.8	5.3	B2/1000		
BM (30°-60°)	2286.5	12.5	B2/2500		
BH (60°-80°)	1860.6	10.2	B3/2500		G3/2500
BVH (80°-90°)	157.1	0.9			G2/225
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°	64°	65°	75°	85°
0°	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1
2.5°	2267.2	2264.8	2260.0	2264.8	2267.2	2272.0	2269.6	2274.4	2272.0	2279.2	2291.3
5°	2209.5	2204.7	2202.3	2214.3	2221.5	2233.6	2238.4	2255.2	2252.8	2264.8	2284.0
7.5°	2144.6	2144.6	2142.2	2156.6	2166.2	2187.9	2204.7	2233.6	2236.0	2257.6	2279.2
10°	2094.1	2096.5	2094.1	2106.1	2120.6	2147.0	2175.9	2216.7	2219.1	2250.4	2272.0
12.5°	2074.9	2074.9	2074.9	2091.7	2110.9	2147.0	2180.7	2223.9	2228.7	2262.4	2281.6
15°	2101.3	2103.7	2098.9	2115.7	2137.4	2180.7	2211.9	2257.6	2262.4	2293.7	2305.7
17.5°	2195.1	2204.7	2192.7	2202.3	2197.5	2231.1	2260.0	2305.7	2308.1	2334.5	2339.3
20°	2380.2	2389.8	2370.6	2358.6	2315.3	2312.9	2324.9	2361.0	2361.0	2377.8	2365.8
22.5°	2666.3	2675.9	2642.3	2596.6	2493.2	2442.7	2416.3	2433.1	2430.7	2437.9	2406.7
25°	3046.2	3043.8	3002.9	2918.8	2752.9	2630.3	2565.3	2538.9	2538.9	2524.5	2486.0
27.5°	3517.4	3481.4	3409.2	3308.3	3077.4	2906.7	2767.3	2700.0	2688.0	2644.7	2572.6
30°	4019.9	3993.5	3890.1	3743.4	3476.6	3257.8	3027.0	2892.3	2885.1	2791.3	2683.1
32.5°	4611.4	4568.1	4452.7	4277.2	3957.4	3649.7	3361.1	3156.8	3144.8	2995.7	2846.6
35°	5371.1	5335.0	5111.4	4935.9	4524.8	4120.9	3779.5	3507.8	3498.2	3315.5	3125.5
37.5°	6282.3	6188.6	5972.2	5642.8	5210.0	4731.6	4298.8	3957.4	3945.4	3743.4	3503.0
40°	7095.0	7010.8	6818.5	6515.5	6051.5	5520.2	4933.5	4520.0	4508.0	4262.7	3959.8
42.5°	7696.0	7638.3	7513.3	7337.8	7006.0	6683.8	5743.8	5200.4	5178.8	4861.4	4483.9
45°	8044.6	7999.0	7926.8	7970.1	7965.3	7905.2	6710.3	6010.6	5940.9	5529.8	5068.2
47.5°	7960.5	7919.6	7948.5	8285.1	8749.1	9097.7	7835.5	6840.1	6746.3	6210.2	5690.9
50°	7352.2	7369.0	7520.5	8164.9	9205.9	9980.1	9083.3	7785.0	7660.0	6895.4	6282.3
52.5°	6243.9	6284.7	6652.6	7554.2	9155.4	10552.3	10210.9	8761.1	8595.2	7563.8	6820.9
55°	4960.0	5063.4	5539.4	6486.7	8496.6	10593.1	11062.0	9742.0	9559.3	8191.3	7289.7
57.5°	3668.9	3822.8	4373.3	5243.7	7234.4	9946.4	11487.5	10679.7	10458.5	8814.0	7785.0
60°	2327.3	2421.1	3055.8	4082.4	5537.0	8364.4	11432.2	11477.9	11285.6	9434.3	8301.9
62.5°	1485.8	1531.5	1851.3	2911.6	3870.9	6193.4	10828.8	12081.4	11951.6	9999.3	8792.4
65°	954.5	973.7	1137.2	1791.2	2635.1	3738.6	9326.1	12146.3	12163.1	10352.7	9095.3
67.5°	776.6	786.2	846.3	1106.0	1863.3	2065.3	6496.3	11223.1	11427.4	10261.4	8991.9
70°	706.9	718.9	781.4	882.4	1442.6	1425.7	3144.8	9391.0	9725.2	9734.8	8532.7
72.5°	596.3	613.1	697.2	834.3	1115.6	1125.2	1332.0	6688.6	7181.5	8701.0	7842.7
75°	497.7	507.3	579.4	735.7	944.9	899.2	935.3	3546.3	4257.9	6977.1	7109.4
77.5°	403.9	413.5	466.4	586.6	839.1	699.6	735.7	1469.0	1815.2	4736.4	5811.1
80°	288.5	298.1	358.2	456.8	634.7	629.9	545.8	810.2	880.0	2560.5	3774.7
82.5°	206.8	214.0	271.7	327.0	440.0	632.3	411.1	550.6	577.0	1134.8	1521.9
85°	139.4	139.4	187.5	216.4	283.7	399.1	331.8	372.7	389.5	538.6	411.1
87.5°	60.1	60.1	101.0	110.6	149.1	185.1	247.6	187.5	192.3	290.9	168.3
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°	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1	2308.1
2.5°	2298.5	2300.9	2305.7	2320.1	2329.7	2344.1	2351.4	2361.0	2361.0	2356.2	2358.6
5°	2293.7	2300.9	2317.7	2344.1	2361.0	2387.4	2406.7	2421.1	2425.9	2421.1	2423.5
7.5°	2291.3	2303.3	2332.1	2370.6	2394.6	2428.3	2454.7	2471.6	2483.6	2478.8	2481.2
10°	2284.0	2303.3	2339.3	2387.4	2423.5	2457.1	2481.2	2488.4	2495.6	2490.8	2488.4
12.5°	2293.7	2315.3	2353.8	2411.5	2452.3	2478.8	2486.0	2474.0	2457.1	2447.5	2445.1
15°	2312.9	2334.5	2373.0	2433.1	2469.2	2478.8	2462.0	2423.5	2385.0	2363.4	2361.0
17.5°	2339.3	2353.8	2385.0	2437.9	2466.8	2454.7	2421.1	2375.4	2346.6	2329.7	2332.1
20°	2356.2	2356.2	2380.2	2421.1	2445.1	2435.5	2394.6	2344.1	2298.5	2276.8	2269.6
22.5°	2380.2	2368.2	2370.6	2406.7	2440.3	2425.9	2339.3	2250.4	2185.5	2161.4	2159.0
25°	2445.1	2411.5	2389.8	2411.5	2490.8	2373.0	2199.9	2096.5	2036.4	2014.8	2017.2
27.5°	2524.5	2478.8	2433.1	2469.2	2531.7	2252.8	2022.0	1904.2	1868.1	1851.3	1858.5
30°	2603.8	2543.7	2483.6	2613.4	2502.8	2065.3	1793.6	1678.2	1646.9	1634.9	1644.5
32.5°	2750.5	2651.9	2579.8	2805.8	2413.9	1851.3	1545.9	1440.1	1411.3	1396.9	1392.1
35°	2995.7	2870.7	2798.6	2974.1	2288.9	1613.3	1319.9	1245.4	1214.1	1182.9	1178.1
37.5°	3349.1	3197.7	3132.7	3070.2	2113.3	1377.6	1146.8	1096.3	1050.7	1002.6	1000.2
40°	3772.3	3575.1	3527.0	3113.5	1870.5	1156.4	1026.6	978.5	920.8	875.1	877.6
42.5°	4260.3	4007.9	3904.5	3101.5	1570.0	1038.6	940.1	887.2	836.7	795.8	793.4
45°	4782.1	4496.0	4257.9	3017.3	1271.9	956.9	887.2	824.7	774.2	728.5	723.7
47.5°	5359.1	5039.3	4584.9	2853.9	1050.7	899.2	855.9	767.0	721.3	692.4	692.4
50°	5940.9	5558.6	4885.4	2606.2	920.8	855.9	810.2	735.7	699.6	675.6	675.6
52.5°	6438.6	6099.6	5133.1	2310.5	839.1	819.9	779.0	721.3	682.8	661.2	658.8
55°	6921.9	6602.1	5354.3	2017.2	771.8	771.8	771.8	709.3	666.0	646.7	644.3
57.5°	7402.7	7131.0	5585.1	1824.8	711.7	730.9	757.3	694.8	651.6	634.7	632.3
60°	7946.1	7765.7	5852.0	1690.2	658.8	687.6	738.1	678.0	627.5	613.1	610.7
62.5°	8523.1	8523.1	6094.8	1500.3	610.7	651.6	709.3	656.4	605.9	593.9	591.4
65°	8975.1	9169.8	6251.1	1216.6	562.6	615.5	675.6	627.5	577.0	574.6	569.8
67.5°	9028.0	9333.3	6152.5	918.4	519.3	577.0	641.9	596.3	548.2	548.2	541.0
70°	8648.1	8958.3	5844.7	687.6	488.1	538.6	598.7	557.8	512.1	516.9	504.9
72.5°	8013.4	8090.3	5080.2	543.4	452.0	497.7	545.8	514.5	473.6	473.6	456.8
75°	7176.7	6748.7	3690.5	454.4	408.7	449.6	492.9	466.4	430.4	418.3	408.7
77.5°	5712.5	4890.3	2144.6	391.9	372.7	403.9	432.8	413.5	382.3	355.8	355.8
80°	3481.4	2865.9	947.3	339.0	329.4	353.4	372.7	351.0	324.6	298.1	290.9
82.5°	1324.7	1106.0	459.2	290.9	288.5	302.9	317.4	295.7	276.5	264.5	228.4
85°	363.0	334.2	315.0	242.8	238.0	235.6	252.4	242.8	216.4	177.9	158.7
87.5°	137.0	156.3	170.7	149.1	158.7	146.7	168.3	153.9	137.0	89.0	79.3
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)