

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: P399487

Luminaire Tested: **ARCH-L-PA3-150-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19831 lumens
Efficiency: N/A
Efficacy: 129.6 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

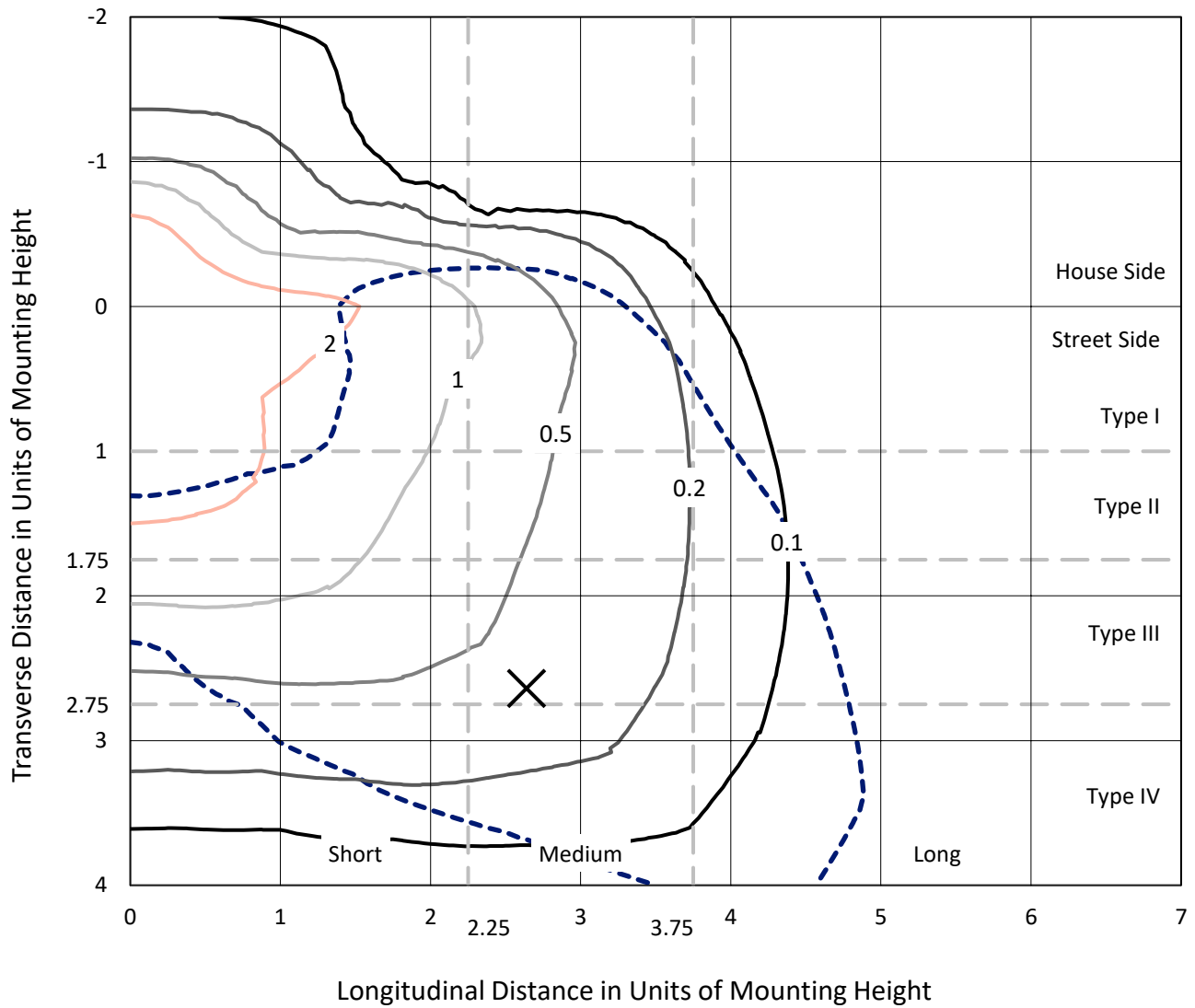
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

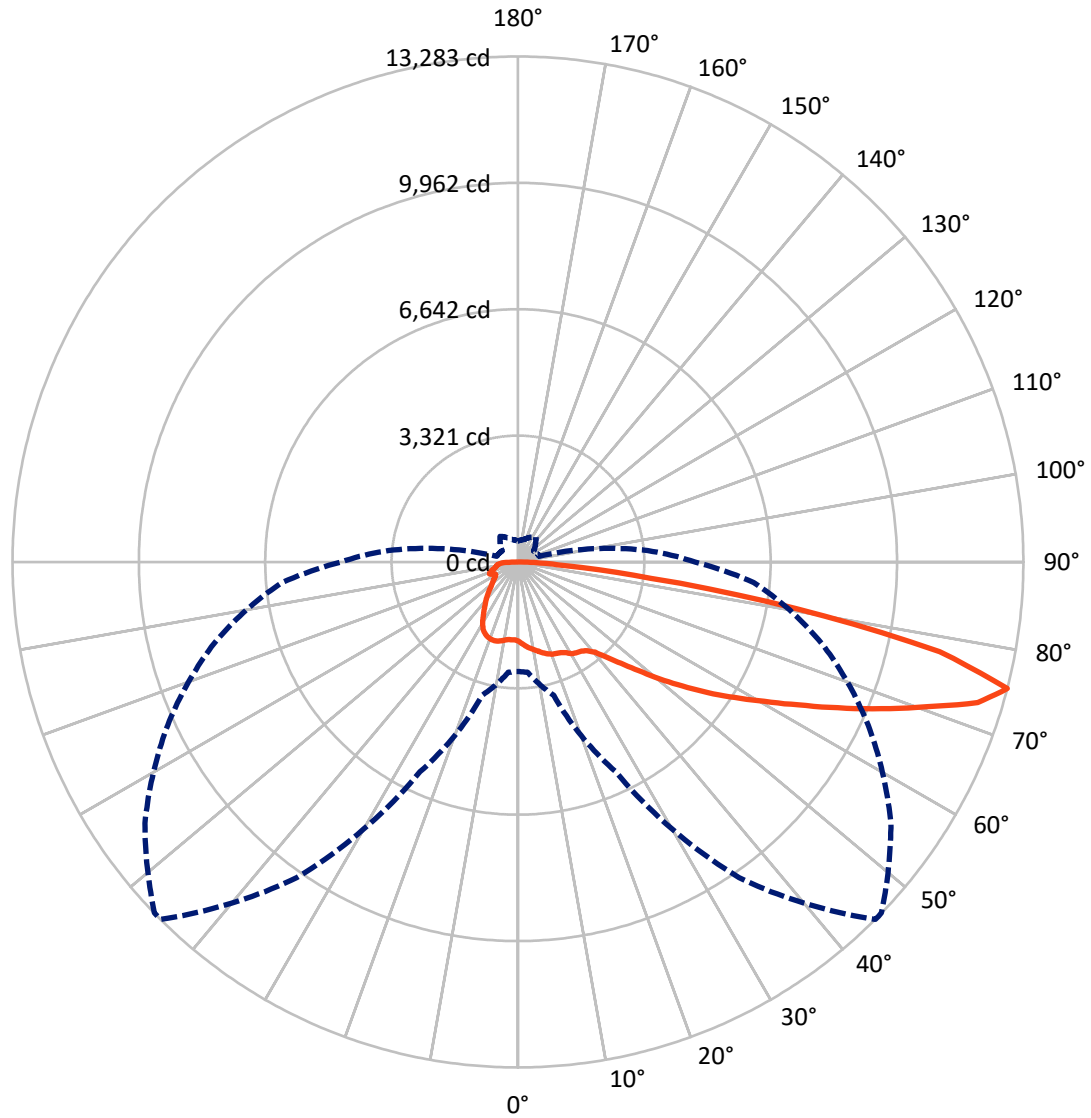
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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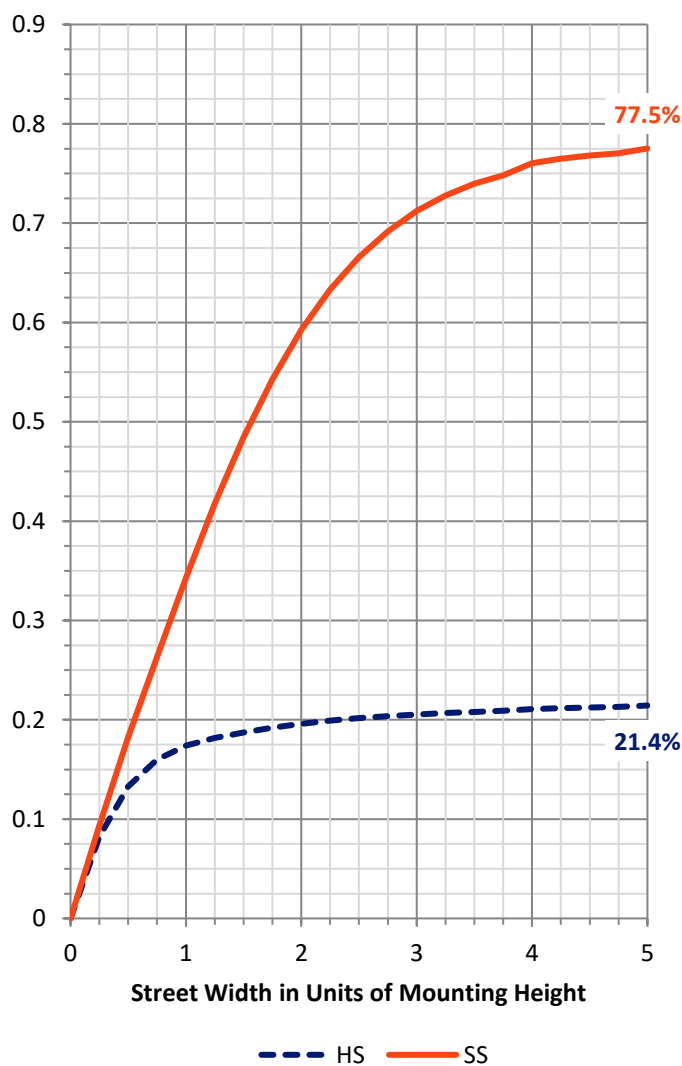
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4382.6	0.0	4382.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15448.5	0.0	15448.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	19831.0	0.0	19831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	1.0
10°-20°	655.5	3.3
20°-30°	1117.5	5.6
30°-40°	1565.8	7.9
40°-50°	2300.3	11.6
50°-60°	3661.0	18.5
60°-70°	5207.7	26.3
70°-80°	4360.5	22.0
80°-90°	756.8	3.8
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°	19831.0	100.0
0°-180°	19831.0	100.0

Coefficient of Utilization



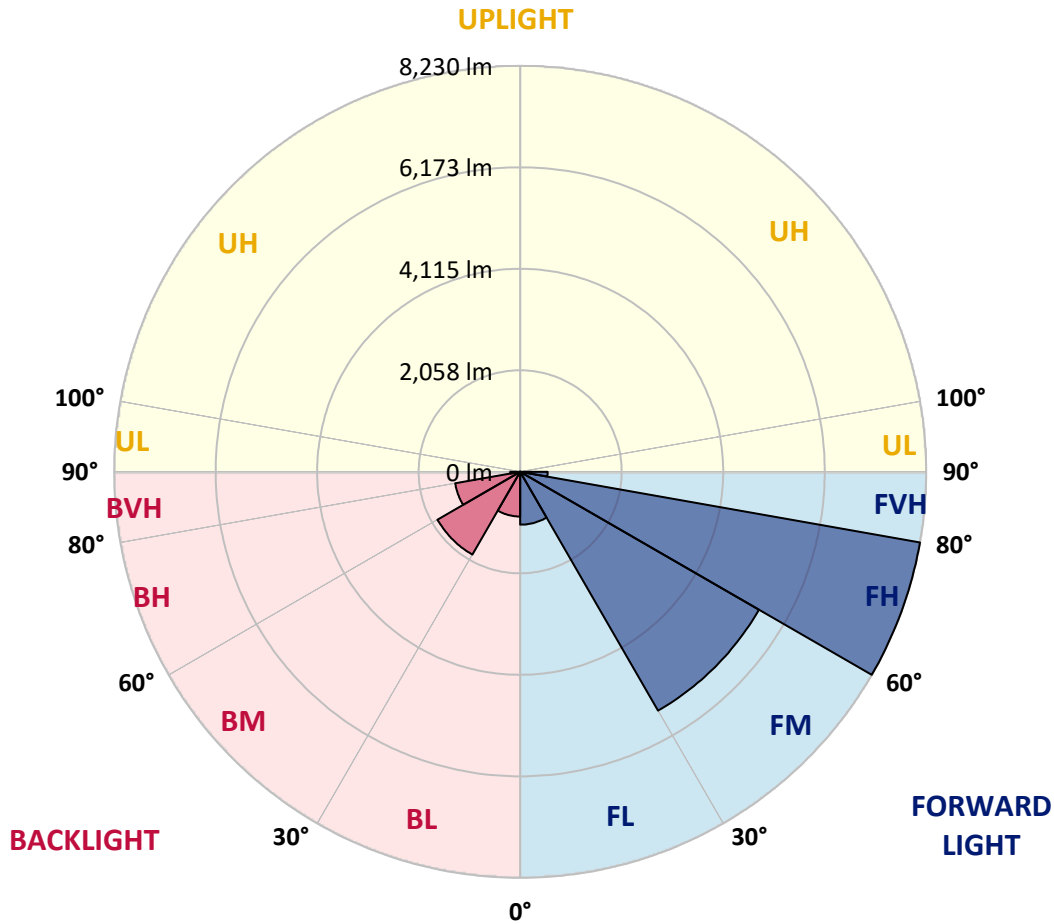
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.0	5.4			
FM (30°-60°)	5589.8	28.2			
FH (60°-80°)	8230.4	41.5			G4/12000
FVH (80°-90°)	556.3	2.8			G4/750
BL (0°-30°)	907.0	4.6	B2/1000		
BM (30°-60°)	1937.3	9.8	B2/2500		
BH (60°-80°)	1337.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	200.4	1.0			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°	46°	55°	65°	75°	85°
0°	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7
2.5°	2201.9	2191.3	2186.0	2186.0	2164.8	2151.6	2148.9	2130.4	2114.5	2098.6	2085.3
5°	2329.1	2321.2	2305.3	2292.0	2262.9	2225.8	2220.5	2180.7	2141.0	2103.9	2072.1
7.5°	2445.7	2429.8	2411.3	2384.8	2337.1	2286.7	2278.8	2223.1	2167.5	2111.8	2069.4
10°	2543.7	2527.8	2501.3	2464.3	2403.3	2342.4	2334.4	2276.1	2217.8	2151.6	2090.6
12.5°	2636.5	2623.2	2583.5	2533.1	2461.6	2406.0	2398.0	2347.7	2286.7	2212.5	2133.0
15°	2716.0	2702.7	2660.3	2602.0	2519.9	2477.5	2466.9	2419.2	2358.3	2278.8	2196.6
17.5°	2755.7	2755.7	2710.7	2647.1	2570.2	2538.4	2530.5	2472.2	2416.6	2339.7	2257.6
20°	2769.0	2774.3	2742.5	2665.6	2599.4	2586.1	2578.2	2530.5	2466.9	2392.7	2315.9
22.5°	2776.9	2787.5	2761.0	2673.6	2617.9	2610.0	2604.7	2572.9	2522.5	2451.0	2374.2
25°	2803.4	2803.4	2784.9	2686.8	2641.8	2639.1	2639.1	2620.6	2586.1	2525.2	2448.4
27.5°	2843.2	2840.5	2816.7	2716.0	2694.8	2702.7	2700.1	2697.4	2673.6	2612.6	2530.5
30°	2909.4	2909.4	2882.9	2774.3	2761.0	2795.5	2798.1	2803.4	2766.3	2670.9	2604.7
32.5°	3010.1	2999.5	2973.0	2832.6	2811.4	2843.2	2848.5	2845.8	2814.0	2723.9	2692.1
35°	3320.1	3296.3	3200.9	2962.4	2856.4	2875.0	2877.6	2890.9	2896.2	2824.6	2808.7
37.5°	3863.3	3831.5	3685.8	3269.8	2999.5	2954.5	2951.8	2986.2	3015.4	2951.8	2951.8
40°	4454.2	4427.7	4342.9	3799.7	3264.5	3116.1	3105.5	3137.3	3174.4	3129.3	3142.6
42.5°	4962.9	4984.1	4992.1	4361.5	3661.9	3418.2	3389.0	3344.0	3402.3	3362.5	3415.5
45°	5344.5	5333.9	5479.6	4936.4	4176.0	3797.1	3757.3	3635.4	3709.6	3707.0	3823.6
47.5°	5749.9	5731.4	5792.3	5477.0	4761.6	4260.8	4199.8	4019.6	4130.9	4207.8	4401.2
50°	6134.1	6139.4	6160.6	5903.6	5397.5	4825.2	4748.3	4507.2	4666.2	4827.8	5100.7
52.5°	6634.9	6597.8	6571.3	6401.8	6110.3	5413.4	5363.1	5087.5	5310.1	5500.8	5863.9
55°	7072.1	7048.3	7032.4	7024.4	6706.5	6062.6	6009.6	5723.4	6044.0	6179.2	6714.4
57.5°	7538.5	7525.2	7610.0	7745.2	7618.0	6722.4	6666.7	6391.2	6748.9	6844.3	7636.5
60°	7880.3	7888.3	8121.4	8465.9	8378.5	7437.8	7371.6	7127.8	7435.1	7519.9	8558.6
62.5°	7883.0	7962.4	8503.0	9120.4	9221.1	8261.9	8185.0	7920.0	8140.0	8140.0	9385.3
65°	7130.4	7220.5	8434.1	9282.0	10074.3	9242.3	9168.1	8752.1	8834.2	8722.9	10161.7
67.5°	6380.6	6486.5	7628.6	9295.3	10673.1	10291.6	10204.1	9584.1	9443.6	9162.8	10704.9
70°	5882.4	5956.6	6910.5	9123.0	11033.5	11388.5	11322.3	10373.7	9923.2	9531.1	10591.0
72.5°	4952.3	4925.9	5837.4	8304.3	11234.9	12633.9	12578.3	11232.2	10339.3	9356.2	9032.9
75°	2875.0	2906.8	3622.2	6083.8	10127.3	13283.1	13277.8	11966.2	10156.4	8264.5	6224.2
77.5°	829.4	853.2	1189.7	2673.6	6404.4	11330.3	11693.3	10943.4	8585.1	5890.4	3227.4
80°	363.0	381.6	516.7	890.3	2758.4	7400.7	7718.7	7400.7	5177.6	2702.7	1266.6
82.5°	214.6	227.9	336.5	551.1	1322.2	3521.5	3950.7	3450.0	2233.7	1147.3	524.6
85°	121.9	127.2	193.4	349.8	832.0	1232.1	1383.2	1295.7	1089.0	651.8	275.6
87.5°	55.6	58.3	95.4	164.3	466.4	416.0	431.9	572.3	630.6	397.5	137.8
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°	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7	2082.7
2.5°	2080.0	2072.1	2056.2	2050.9	2042.9	2045.6	2048.2	2048.2	2050.9	2042.9	2042.9
5°	2058.8	2045.6	2029.7	2029.7	2029.7	2050.9	2069.4	2080.0	2085.3	2085.3	2080.0
7.5°	2050.9	2035.0	2016.4	2021.7	2027.0	2053.5	2088.0	2122.4	2133.0	2133.0	2127.7
10°	2066.8	2050.9	2037.6	2045.6	2058.8	2080.0	2106.5	2138.3	2164.8	2167.5	2164.8
12.5°	2103.9	2085.3	2072.1	2088.0	2103.9	2117.1	2130.4	2143.6	2178.1	2183.4	2183.4
15°	2164.8	2146.3	2130.4	2143.6	2148.9	2148.9	2148.9	2148.9	2183.4	2188.7	2188.7
17.5°	2225.8	2209.9	2194.0	2196.6	2180.7	2159.5	2151.6	2148.9	2167.5	2183.4	2186.0
20°	2284.1	2270.8	2254.9	2228.4	2188.7	2148.9	2135.7	2135.7	2146.3	2170.1	2170.1
22.5°	2347.7	2331.8	2305.3	2244.3	2178.1	2122.4	2109.2	2117.1	2130.4	2162.2	2159.5
25°	2419.2	2398.0	2353.0	2239.0	2143.6	2077.4	2080.0	2103.9	2127.7	2162.2	2162.2
27.5°	2498.7	2469.5	2379.5	2196.6	2066.8	2003.2	2027.0	2082.7	2117.1	2154.2	2159.5
30°	2586.1	2559.6	2400.7	2122.4	1942.3	1884.0	1942.3	2032.3	2085.3	2119.8	2127.7
32.5°	2692.1	2670.9	2419.2	2027.0	1780.6	1730.3	1815.1	1926.4	2011.1	2050.9	2058.8
35°	2824.6	2803.4	2443.1	1918.4	1629.6	1576.6	1653.4	1767.4	1878.7	1929.0	1944.9
37.5°	2996.8	2965.0	2464.3	1801.8	1502.4	1441.5	1478.6	1581.9	1682.6	1751.5	1770.0
40°	3216.8	3166.4	2482.8	1669.3	1391.1	1322.2	1335.5	1385.8	1444.1	1505.0	1528.9
42.5°	3526.8	3426.1	2485.4	1528.9	1277.2	1213.6	1208.3	1224.2	1224.2	1224.2	1232.1
45°	3958.7	3767.9	2490.7	1396.4	1160.6	1094.3	1078.4	1073.1	1033.4	956.6	951.3
47.5°	4504.5	4215.7	2514.6	1285.1	1038.7	980.4	959.2	938.0	863.8	784.3	768.4
50°	5204.1	4735.1	2562.3	1179.1	935.4	895.6	869.1	818.8	736.6	675.7	659.8
52.5°	6009.6	5352.5	2607.3	1067.8	858.5	832.0	800.2	739.3	651.8	614.7	609.4
55°	6934.3	6041.4	2697.4	969.8	792.3	773.7	744.6	686.3	620.0	593.5	590.9
57.5°	7880.3	6812.5	2824.6	882.4	728.7	718.1	718.1	667.7	625.3	614.7	614.7
60°	8791.8	7474.9	2726.6	800.2	670.4	675.7	726.0	712.8	681.0	694.2	702.2
62.5°	9499.3	7864.4	2212.5	734.0	628.0	675.7	805.5	805.5	768.4	763.1	763.1
65°	9801.4	7859.1	1555.4	683.6	612.1	741.9	898.3	855.9	757.8	720.7	712.8
67.5°	9724.5	7514.6	1073.1	649.2	606.8	810.8	940.7	821.4	710.1	678.3	654.5
70°	9048.8	6786.0	826.7	617.4	598.8	781.7	927.4	781.7	673.0	643.9	622.7
72.5°	7300.0	5442.5	686.3	585.6	567.0	723.4	882.4	744.6	643.9	612.1	590.9
75°	4655.6	3423.5	580.3	543.2	506.1	649.2	821.4	707.5	612.1	569.7	553.8
77.5°	2239.0	1475.9	506.1	492.9	455.8	601.5	760.5	659.8	569.7	535.2	524.6
80°	906.2	675.7	439.9	442.5	418.7	572.3	718.1	614.7	527.3	490.2	471.7
82.5°	471.7	392.2	371.0	381.6	381.6	545.8	686.3	577.6	490.2	474.3	413.4
85°	254.4	243.8	286.2	307.4	331.2	492.9	638.6	537.9	447.8	384.2	371.0
87.5°	124.5	159.0	161.6	185.5	230.5	394.8	537.9	450.5	373.6	310.0	304.7
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)