

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: P237312

Luminaire Tested: **ARCH-L-AF72-190-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22433.1 lumens
Efficiency: N/A
Efficacy: 118.7 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

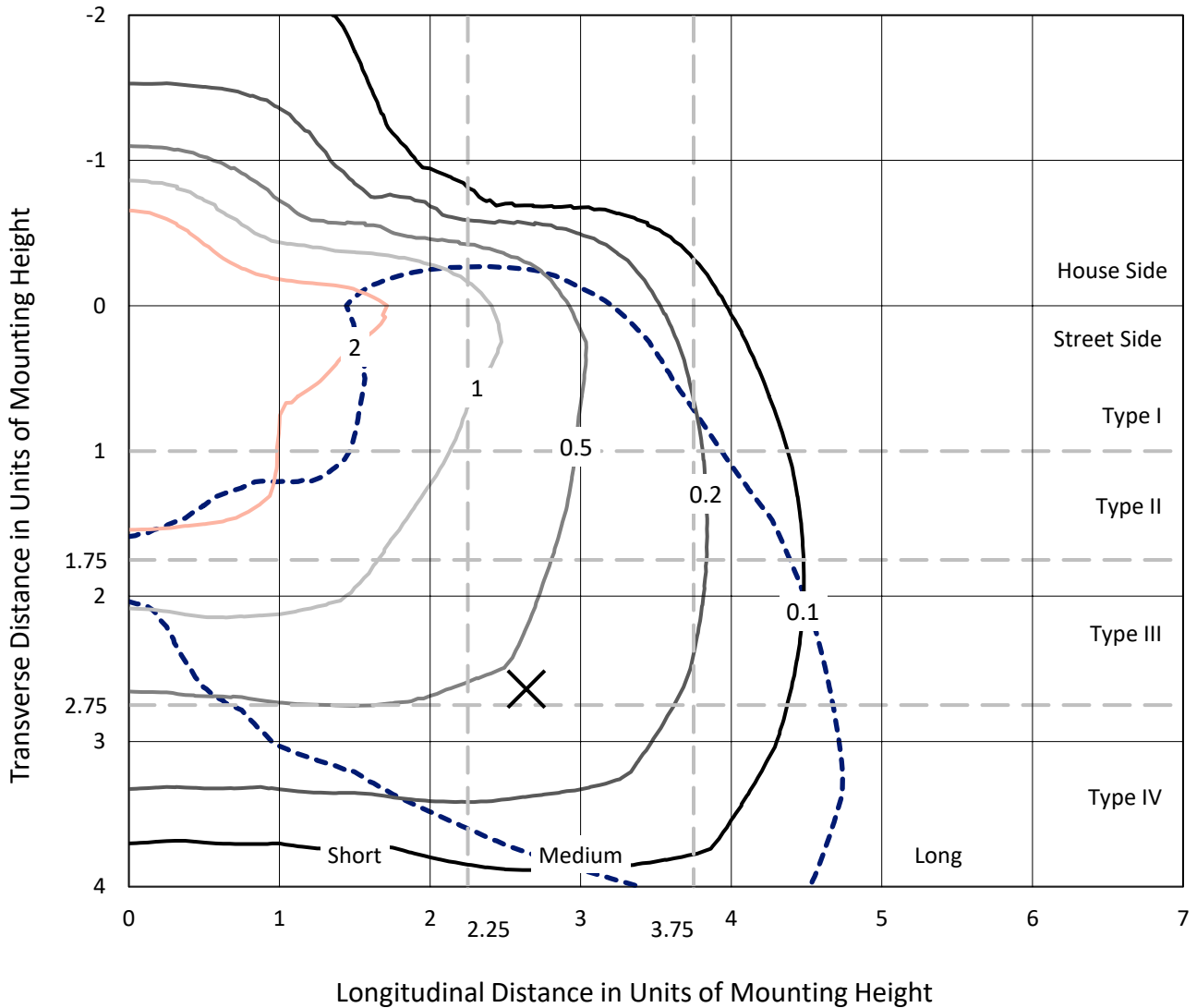
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

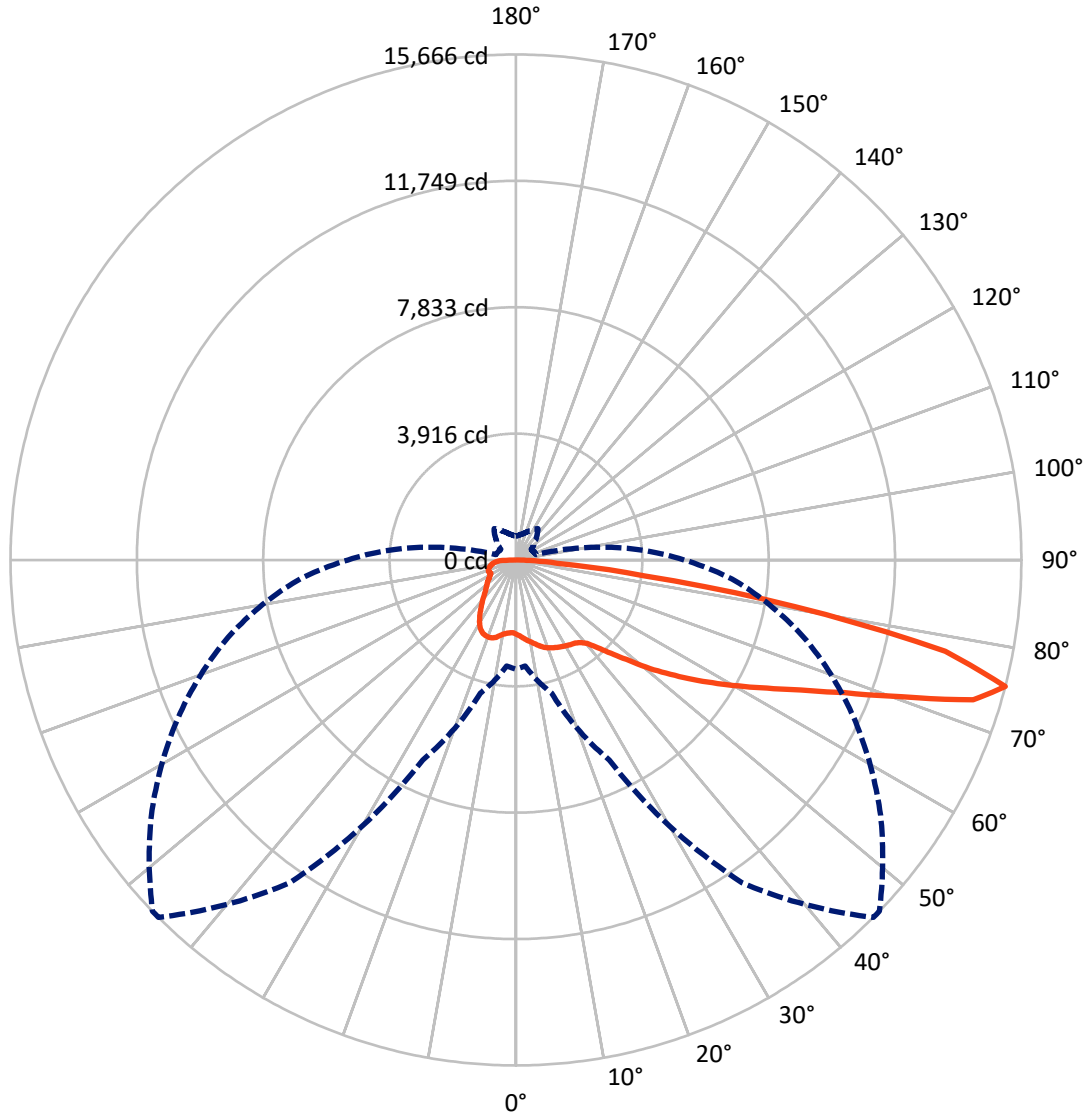
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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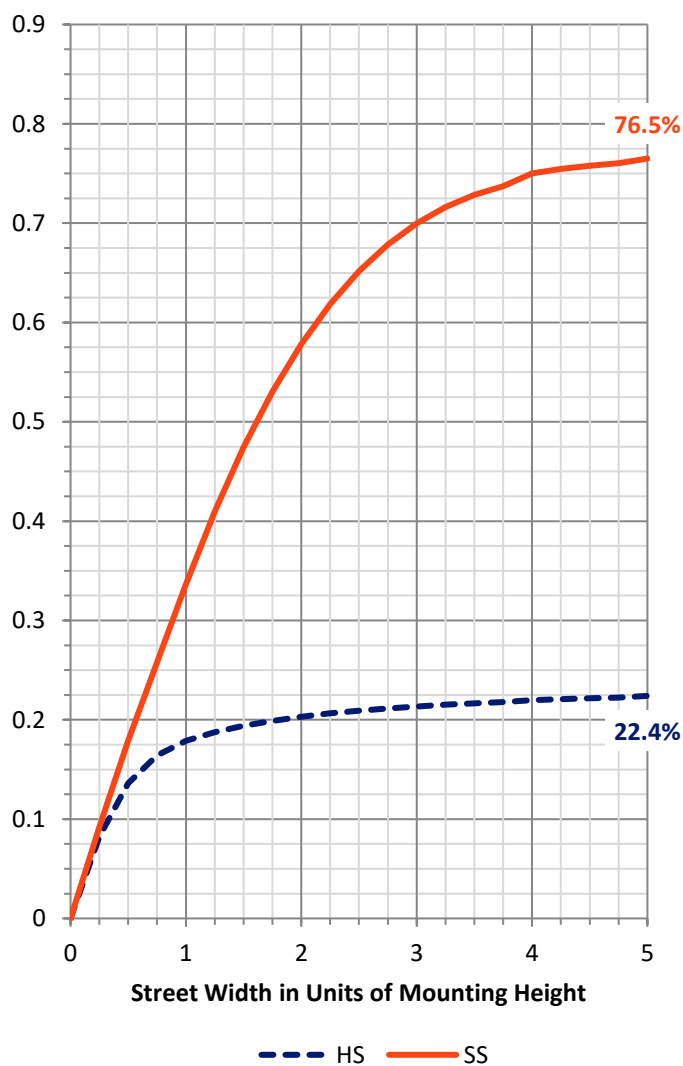
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5196.8	0.0	5196.8
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	17236.3	0.0	17236.3
	% Fixture	76.8	0.0	76.8
Total	Lumens	22433.1	0.0	22433.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	1.0
10°-20°	738.5	3.3
20°-30°	1267.3	5.6
30°-40°	1772.5	7.9
40°-50°	2600.1	11.6
50°-60°	4050.2	18.1
60°-70°	5828.0	26.0
70°-80°	5076.8	22.6
80°-90°	871.9	3.9
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°	22433.1	100.0
0°-180°	22433.1	100.0

Coefficient of Utilization

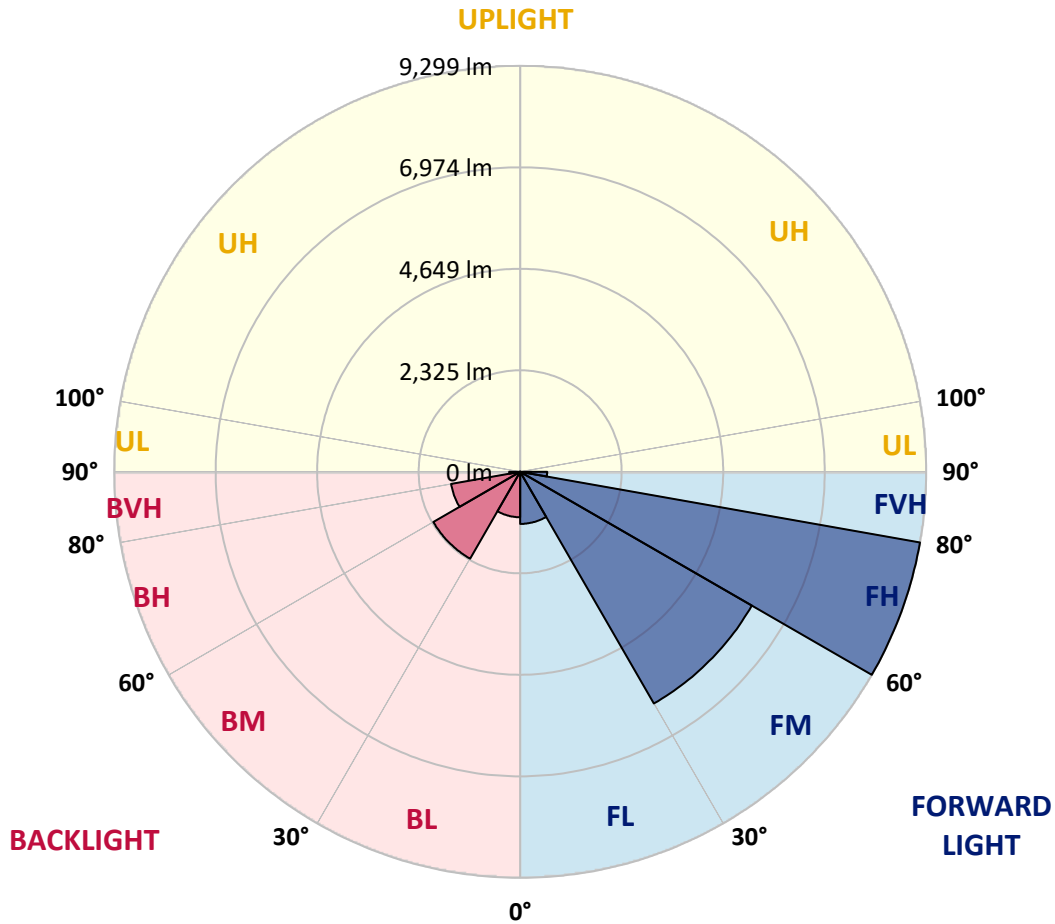


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1192.9	5.3			
FM (30°-60°)	6126.0	27.3			
FH (60°-80°)	9298.7	41.5			G4/12000
FVH (80°-90°)	618.6	2.8			G4/750
BL (0°-30°)	1040.8	4.6	B3/2500		
BM (30°-60°)	2296.7	10.2	B2/2500		
BH (60°-80°)	1606.0	7.2	B3/2500		G3/2500
BVH (80°-90°)	253.3	1.1			G3/500
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°	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7
2.5°	2413.2	2395.7	2395.7	2382.6	2382.6	2360.8	2352.1	2347.8	2325.9	2312.8	2299.7
5°	2552.9	2531.0	2526.6	2496.0	2483.0	2435.0	2430.6	2400.1	2360.8	2321.5	2290.9
7.5°	2679.4	2666.3	2644.4	2613.9	2574.5	2513.5	2509.1	2461.2	2395.7	2343.4	2299.7
10°	2771.1	2762.3	2731.7	2692.4	2648.8	2587.7	2583.3	2531.0	2452.5	2391.3	2330.3
12.5°	2880.1	2867.0	2827.7	2775.4	2727.3	2670.7	2666.3	2622.7	2535.4	2456.8	2378.2
15°	2984.9	2967.4	2919.4	2867.0	2814.6	2766.7	2766.7	2718.6	2627.0	2535.4	2443.7
17.5°	3037.2	3028.4	2980.5	2923.8	2880.1	2845.2	2840.8	2797.1	2705.6	2609.5	2509.1
20°	3054.7	3059.0	3015.3	2954.3	2923.8	2906.3	2901.9	2871.4	2771.1	2679.4	2583.3
22.5°	3050.3	3063.4	3028.4	2963.0	2954.3	2954.3	2954.3	2919.4	2840.8	2749.2	2653.2
25°	3067.8	3085.2	3059.0	2980.5	2980.5	2998.0	2998.0	2980.5	2910.6	2832.1	2736.1
27.5°	3128.8	3142.0	3120.1	3010.9	3015.3	3041.6	3037.2	3041.6	2998.0	2923.8	2827.7
30°	3203.1	3220.4	3194.3	3059.0	3054.7	3080.8	3080.8	3102.6	3072.2	2993.6	2915.0
32.5°	3403.8	3399.4	3316.4	3111.3	3098.3	3124.5	3124.5	3146.3	3128.8	3067.8	2993.6
35°	4001.6	3936.2	3752.8	3281.6	3150.6	3163.7	3163.7	3203.1	3211.7	3163.7	3098.3
37.5°	4612.5	4590.7	4451.0	3735.3	3342.7	3246.6	3242.3	3299.0	3338.3	3299.0	3255.4
40°	5227.8	5210.3	5179.8	4342.0	3744.1	3395.0	3381.9	3429.9	3499.8	3473.6	3447.3
42.5°	5799.5	5790.7	5821.4	4939.8	4254.7	3713.6	3674.3	3617.6	3718.0	3709.3	3709.3
45°	6249.0	6270.7	6288.2	5498.4	4808.9	4123.8	4075.8	3883.7	4019.0	4053.9	4080.2
47.5°	6502.0	6519.5	6580.5	6043.7	5363.1	4599.4	4564.6	4250.3	4429.3	4533.9	4608.1
50°	6864.2	6816.2	6868.6	6576.2	6030.8	5219.1	5123.0	4743.4	4970.3	5153.6	5328.1
52.5°	7213.3	7134.7	7178.5	7191.6	6790.0	5825.6	5725.3	5323.7	5607.4	5895.5	6205.3
55°	7527.5	7523.1	7566.7	7789.3	7523.1	6475.8	6362.3	5965.3	6375.5	6685.3	7208.9
57.5°	7780.6	7824.3	8016.3	8483.2	8369.7	7182.8	7056.2	6711.5	7196.0	7505.7	8374.0
60°	8077.3	8147.1	8465.7	9072.4	9142.2	7924.6	7793.7	7545.0	8038.1	8352.4	9722.6
62.5°	8177.7	8278.1	8932.7	9692.0	9949.3	8736.3	8618.5	8452.7	8924.0	9207.6	11066.6
65°	7510.1	7702.1	9190.2	10010.6	10817.8	9713.8	9613.4	9469.4	9805.4	9993.1	11978.5
67.5°	7326.8	7414.2	8688.3	10468.6	11633.8	10970.5	10870.2	10621.4	10630.2	10551.6	12275.3
70°	7069.3	7165.3	8173.3	10813.5	12803.3	12689.9	12567.6	11834.5	11385.2	10909.4	11690.5
72.5°	6022.1	5991.4	7043.2	9883.9	13366.2	14819.4	14675.3	13139.3	11943.6	10599.6	9866.5
75°	3381.9	3294.6	4272.1	6838.0	12205.5	15665.9	15661.7	13798.3	11550.9	9233.7	6715.8
77.5°	981.8	955.7	1409.6	2867.0	8217.0	13610.7	13776.5	12445.5	9639.6	6632.9	3687.4
80°	462.6	471.2	606.6	947.0	3508.6	8784.3	9259.9	8195.2	5760.1	3059.0	1523.0
82.5°	292.4	296.7	414.5	611.0	1483.6	3988.5	4381.2	3687.4	2282.2	1322.2	672.1
85°	183.2	183.2	274.9	401.4	885.9	1274.2	1383.3	1256.8	977.5	720.0	366.6
87.5°	100.4	100.4	165.8	231.3	484.3	410.2	423.3	501.8	611.0	440.8	183.2
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°	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7	2299.7
2.5°	2295.3	2286.6	2273.5	2269.2	2264.8	2260.5	2264.8	2273.5	2264.8	2264.8	2269.2
5°	2282.2	2273.5	2256.1	2256.1	2260.5	2264.8	2286.6	2299.7	2304.1	2304.1	2304.1
7.5°	2282.2	2269.2	2256.1	2260.5	2269.2	2286.6	2321.5	2343.4	2360.8	2365.1	2365.1
10°	2304.1	2286.6	2277.9	2286.6	2312.8	2325.9	2360.8	2395.7	2417.6	2426.2	2426.2
12.5°	2343.4	2325.9	2325.9	2343.4	2378.2	2395.7	2426.2	2452.5	2478.6	2491.7	2491.7
15°	2408.8	2387.0	2391.3	2422.0	2461.2	2478.6	2500.4	2509.1	2531.0	2548.5	2548.5
17.5°	2470.0	2448.1	2456.8	2491.7	2517.9	2526.6	2539.7	2535.4	2544.1	2557.2	2561.6
20°	2539.7	2517.9	2522.2	2544.1	2548.5	2539.7	2539.7	2526.6	2522.2	2544.1	2552.9
22.5°	2609.5	2587.7	2583.3	2570.3	2548.5	2526.6	2513.5	2500.4	2491.7	2513.5	2522.2
25°	2692.4	2661.9	2640.1	2583.3	2526.6	2487.4	2470.0	2461.2	2456.8	2478.6	2487.4
27.5°	2784.2	2753.6	2688.1	2566.0	2474.2	2408.8	2395.7	2395.7	2404.5	2417.6	2426.2
30°	2871.4	2840.8	2723.0	2526.6	2382.6	2286.6	2273.5	2286.6	2308.4	2321.5	2334.7
32.5°	2958.6	2928.1	2744.8	2465.6	2247.4	2125.2	2116.5	2138.2	2173.1	2181.9	2190.6
35°	3076.4	3045.9	2771.1	2378.2	2077.1	1946.2	1937.5	1950.6	1981.2	1994.2	2007.3
37.5°	3242.3	3224.8	2810.2	2282.2	1920.0	1776.0	1749.9	1741.1	1758.6	1754.2	1771.7
40°	3460.5	3473.6	2880.1	2155.6	1767.4	1619.0	1562.2	1536.0	1518.6	1483.6	1501.1
42.5°	3779.1	3787.8	2958.6	2011.7	1636.3	1470.6	1396.5	1348.4	1313.6	1256.8	1265.5
45°	4246.0	4171.7	3050.3	1858.9	1518.6	1352.7	1265.5	1208.7	1160.8	1112.8	1117.1
47.5°	4865.7	4638.7	3150.6	1732.5	1400.8	1256.8	1178.3	1112.8	1056.0	1016.7	1021.1
50°	5629.2	5219.1	3251.0	1614.7	1282.9	1182.6	1112.8	1043.0	986.2	947.0	942.6
52.5°	6637.3	5917.3	3316.4	1483.6	1165.1	1117.1	1056.0	990.6	920.7	872.8	868.4
55°	7684.6	6728.9	3373.2	1326.6	1051.6	1043.0	1012.4	938.2	855.3	794.2	785.5
57.5°	8836.7	7597.4	3416.9	1173.9	964.4	981.8	973.2	885.9	794.2	737.5	733.1
60°	9883.9	8496.3	3277.2	1038.6	885.9	920.7	929.5	855.3	807.3	820.4	824.8
62.5°	10940.0	9190.2	2744.8	938.2	833.4	881.5	955.7	951.3	929.5	951.3	955.7
65°	11319.7	9334.1	1946.2	855.3	781.1	898.9	1038.6	1029.9	929.5	890.3	881.5
67.5°	11105.7	8906.5	1309.2	789.8	741.9	920.7	1125.8	1029.9	894.7	842.2	824.8
70°	10089.1	7854.7	960.1	724.4	706.9	916.3	1173.9	1025.5	877.2	820.4	798.5
72.5°	8046.8	6061.2	772.4	663.3	654.6	894.7	1200.0	1016.7	859.7	798.5	772.4
75°	5210.3	3770.3	650.2	602.2	576.1	859.7	1187.0	990.6	837.8	759.4	741.9
77.5°	2417.6	1623.4	554.2	532.4	501.8	807.3	1147.7	938.2	789.8	715.6	693.8
80°	1125.8	768.0	467.0	462.6	449.5	763.6	1095.4	877.2	733.1	672.1	637.1
82.5°	602.2	462.6	379.6	379.6	392.8	711.3	1029.9	802.9	659.0	628.4	536.8
85°	318.6	266.1	274.9	296.7	336.0	628.4	942.6	724.4	576.1	479.9	467.0
87.5°	161.4	170.2	170.2	200.7	257.5	510.6	776.8	597.8	488.7	392.8	384.0
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)