

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: P399411

Luminaire Tested: **ARCH-L-PA3-140-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399411
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-PA3-140-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18740 lumens
Efficiency: N/A
Efficacy: 131.0 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

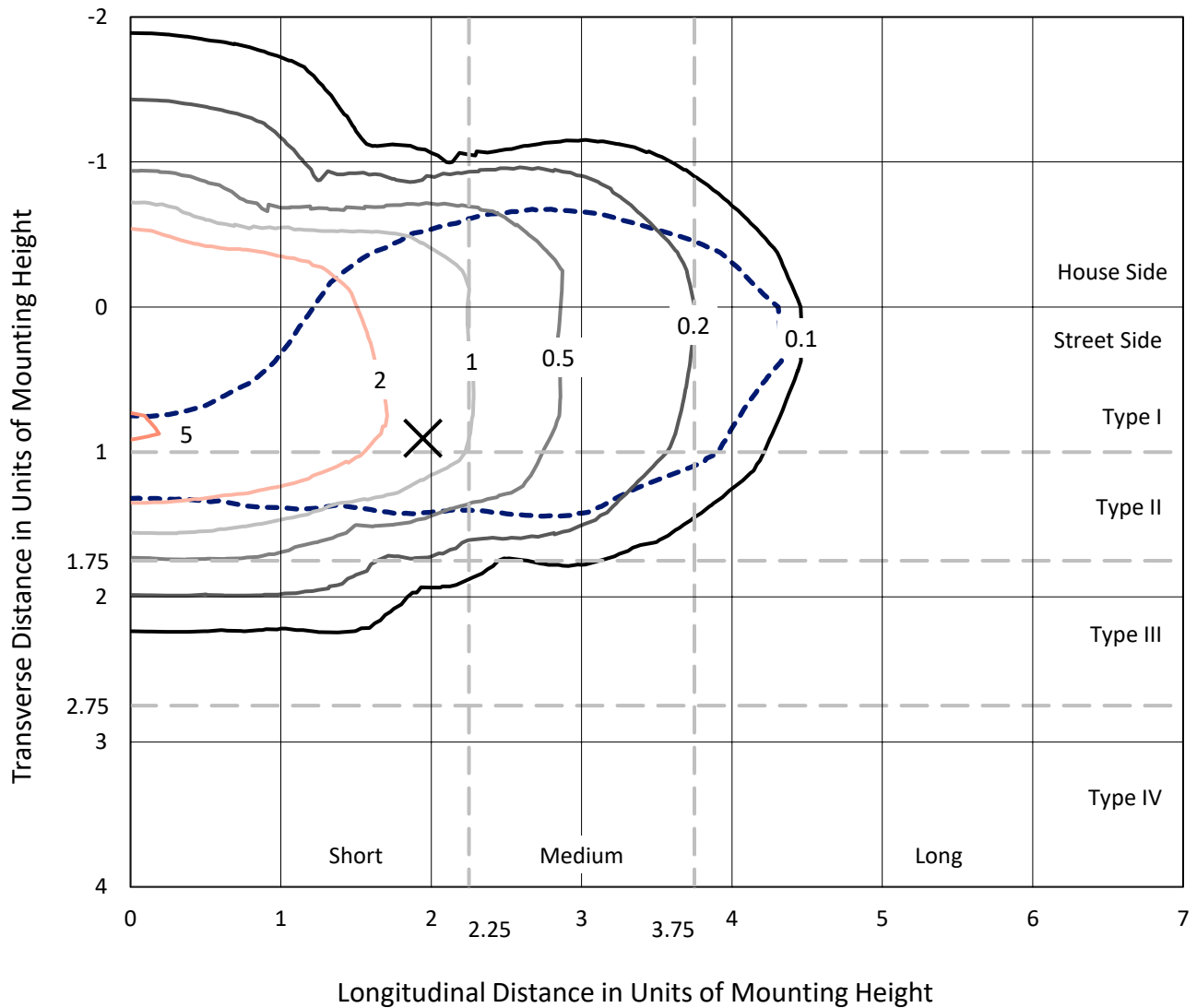
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

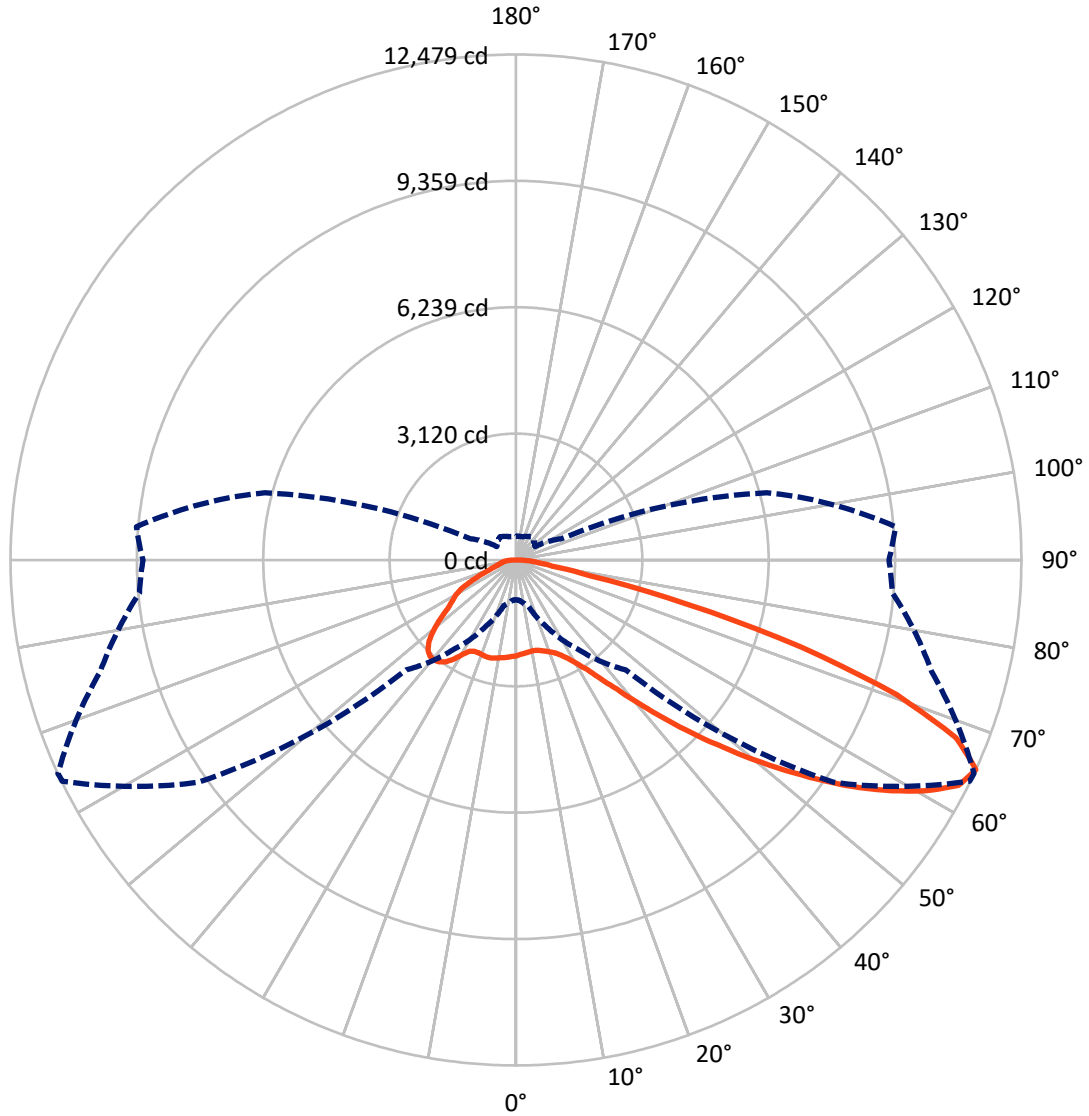
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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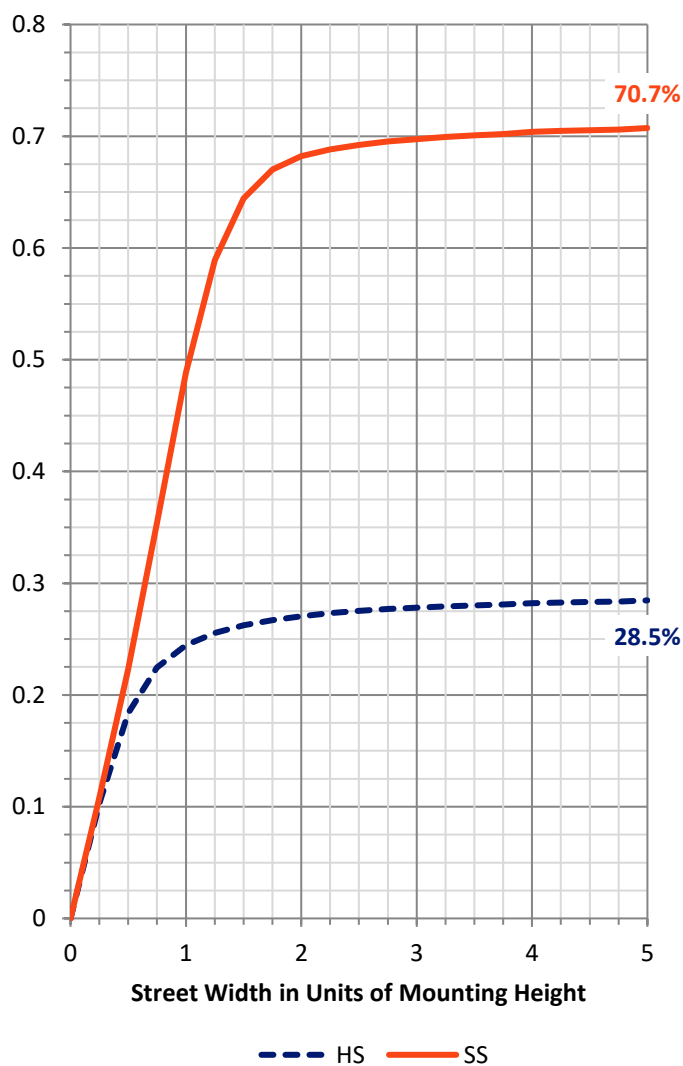
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5418.0	0.0	5418.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	13322.0	0.0	13322.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	18740.0	0.0	18740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.2
10°-20°	673.5	3.6
20°-30°	1196.4	6.4
30°-40°	2024.0	10.8
40°-50°	3523.5	18.8
50°-60°	4553.5	24.3
60°-70°	3984.5	21.3
70°-80°	2167.3	11.6
80°-90°	391.6	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°	18740.0	100.0
0°-180°	18740.0	100.0

Coefficient of Utilization

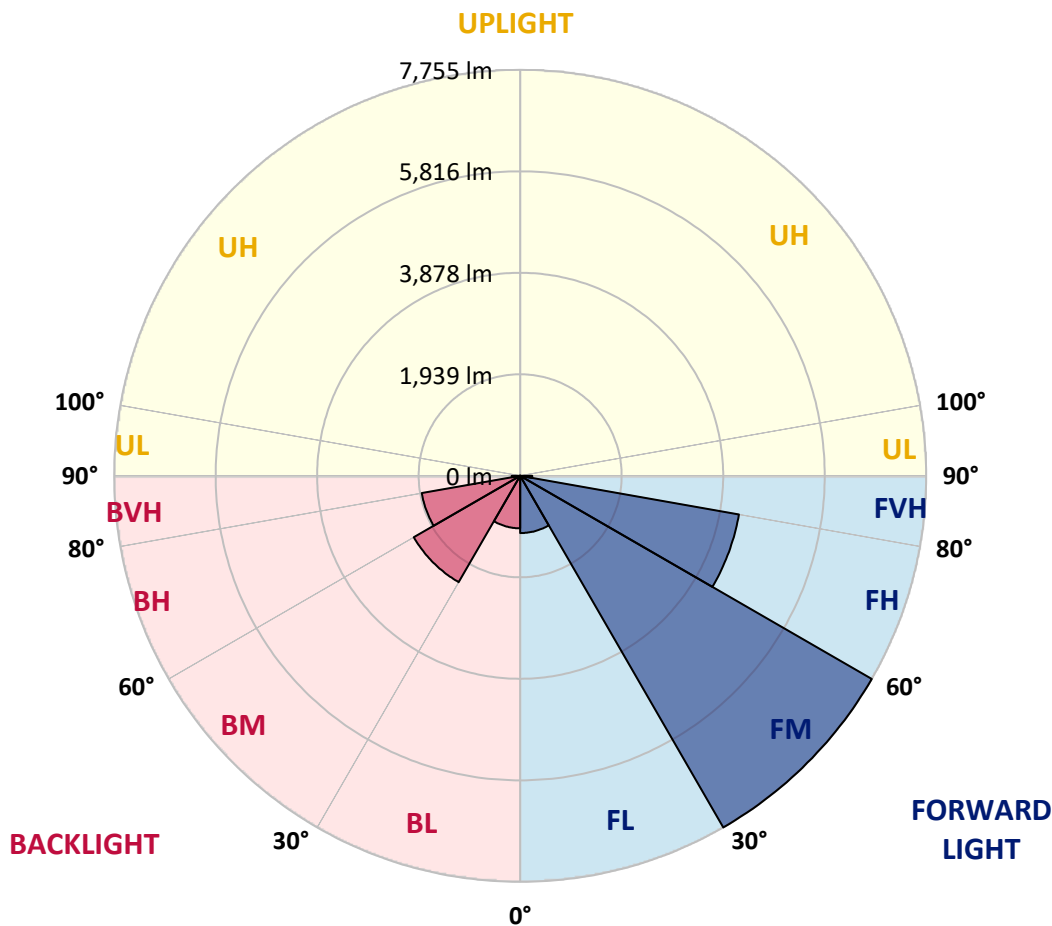


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.4	5.8			
FM (30°-60°)	7755.1	41.4			
FH (60°-80°)	4243.0	22.6			G2/5000
FVH (80°-90°)	230.4	1.2			G3/500
BL (0°-30°)	1002.1	5.3	B3/2500		
BM (30°-60°)	2345.9	12.5	B2/2500		
BH (60°-80°)	1908.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	161.2	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°	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0
2.5°	2326.0	2323.6	2318.6	2323.6	2326.0	2331.0	2328.5	2333.4	2331.0	2338.4	2350.7
5°	2266.8	2261.9	2259.4	2271.8	2279.2	2291.5	2296.4	2313.7	2311.2	2323.6	2343.3
7.5°	2200.2	2200.2	2197.8	2212.6	2222.4	2244.6	2261.9	2291.5	2294.0	2316.2	2338.4
10°	2148.4	2150.9	2148.4	2160.8	2175.6	2202.7	2232.3	2274.2	2276.7	2308.8	2331.0
12.5°	2128.7	2128.7	2128.7	2146.0	2165.7	2202.7	2237.2	2281.6	2286.6	2321.1	2340.8
15°	2155.8	2158.3	2153.4	2170.6	2192.8	2237.2	2269.3	2316.2	2321.1	2353.2	2365.5
17.5°	2252.0	2261.9	2249.6	2259.4	2254.5	2289.0	2318.6	2365.5	2368.0	2395.1	2400.0
20°	2442.0	2451.8	2432.1	2419.8	2375.4	2372.9	2385.2	2422.2	2422.2	2439.5	2427.2
22.5°	2735.5	2745.4	2710.8	2664.0	2557.9	2506.1	2479.0	2496.2	2493.8	2501.2	2469.1
25°	3125.2	3122.8	3080.8	2994.5	2824.3	2698.5	2631.9	2604.8	2604.8	2590.0	2550.5
27.5°	3608.7	3571.7	3497.7	3394.1	3157.3	2982.2	2839.1	2770.0	2757.7	2713.3	2639.3
30°	4124.2	4097.1	3991.0	3840.6	3566.8	3342.3	3105.5	2967.4	2960.0	2863.8	2752.8
32.5°	4731.0	4686.6	4568.2	4388.2	4060.1	3744.4	3448.4	3238.7	3226.4	3073.4	2920.5
35°	5510.5	5473.5	5244.1	5064.0	4642.2	4227.8	3877.6	3598.8	3589.0	3401.5	3206.6
37.5°	6445.3	6349.1	6127.1	5789.2	5345.2	4854.4	4410.4	4060.1	4047.8	3840.6	3593.9
40°	7279.1	7192.7	6995.4	6684.6	6208.5	5663.4	5061.6	4637.3	4625.0	4373.4	4062.6
42.5°	7895.7	7836.5	7708.3	7528.2	7187.8	6857.3	5892.8	5335.4	5313.2	4987.6	4600.3
45°	8253.4	8206.5	8132.5	8176.9	8172.0	8110.3	6884.4	6166.6	6095.1	5673.3	5199.7
47.5°	8167.1	8125.1	8154.7	8500.1	8976.1	9333.8	8038.8	7017.6	6921.4	6371.3	5838.5
50°	7543.0	7560.3	7715.7	8376.7	9444.8	10239.0	9319.0	7987.0	7858.7	7074.3	6445.3
52.5°	6405.9	6447.8	6825.2	7750.2	9393.0	10826.1	10475.8	8988.5	8818.3	7760.1	6997.9
55°	5088.7	5194.8	5683.2	6655.0	8717.1	10868.0	11349.0	9994.8	9807.4	8403.9	7478.9
57.5°	3764.1	3922.0	4486.8	5379.8	7422.1	10204.5	11785.6	10956.8	10729.9	9042.7	7987.0
60°	2387.7	2483.9	3135.1	4188.4	5680.7	8581.5	11728.9	11775.8	11578.4	9679.1	8517.3
62.5°	1524.4	1571.3	1899.3	2987.1	3971.3	6354.1	11109.8	12394.9	12261.7	10258.8	9020.5
65°	979.3	999.0	1166.7	1837.7	2703.4	3835.6	9568.1	12461.5	12478.8	10621.4	9331.3
67.5°	796.7	806.6	868.3	1134.7	1911.7	2118.8	6664.9	11514.3	11724.0	10527.6	9225.3
70°	725.2	737.5	801.7	905.3	1480.0	1462.7	3226.4	9634.7	9977.6	9987.4	8754.1
72.5°	611.7	629.0	715.3	855.9	1144.5	1154.4	1366.5	6862.2	7367.9	8926.8	8046.2
75°	510.6	520.5	594.5	754.8	969.4	922.5	959.5	3638.3	4368.4	7158.2	7293.9
77.5°	414.4	424.3	478.5	601.9	860.9	717.8	754.8	1507.1	1862.3	4859.3	5961.9
80°	296.0	305.9	367.5	468.7	651.2	646.3	559.9	831.3	902.8	2627.0	3872.6
82.5°	212.1	219.5	278.7	335.5	451.4	648.7	421.8	564.9	592.0	1164.3	1561.4
85°	143.1	143.1	192.4	222.0	291.1	409.5	340.4	382.3	399.6	552.5	421.8
87.5°	61.7	61.7	103.6	113.5	152.9	189.9	254.1	192.4	197.3	298.5	172.7
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°	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0	2368.0
2.5°	2358.1	2360.6	2365.5	2380.3	2390.2	2405.0	2412.4	2422.2	2422.2	2417.3	2419.8
5°	2353.2	2360.6	2377.8	2405.0	2422.2	2449.4	2469.1	2483.9	2488.8	2483.9	2486.4
7.5°	2350.7	2363.0	2392.6	2432.1	2456.8	2491.3	2518.4	2535.7	2548.0	2543.1	2545.6
10°	2343.3	2363.0	2400.0	2449.4	2486.4	2520.9	2545.6	2553.0	2560.4	2555.4	2553.0
12.5°	2353.2	2375.4	2414.8	2474.0	2516.0	2543.1	2550.5	2538.2	2520.9	2511.0	2508.6
15°	2372.9	2395.1	2434.6	2496.2	2533.2	2543.1	2525.8	2486.4	2446.9	2424.7	2422.2
17.5°	2400.0	2414.8	2446.9	2501.2	2530.8	2518.4	2483.9	2437.0	2407.4	2390.2	2392.6
20°	2417.3	2417.3	2442.0	2483.9	2508.6	2498.7	2456.8	2405.0	2358.1	2335.9	2328.5
22.5°	2442.0	2429.6	2432.1	2469.1	2503.6	2488.8	2400.0	2308.8	2242.2	2217.5	2215.0
25°	2508.6	2474.0	2451.8	2474.0	2555.4	2434.6	2257.0	2150.9	2089.2	2067.0	2069.5
27.5°	2590.0	2543.1	2496.2	2533.2	2597.4	2311.2	2074.4	1953.6	1916.6	1899.3	1906.7
30°	2671.4	2609.7	2548.0	2681.2	2567.8	2118.8	1840.1	1721.7	1689.7	1677.3	1687.2
32.5°	2821.8	2720.7	2646.7	2878.6	2476.5	1899.3	1586.1	1477.5	1447.9	1433.1	1428.2
35°	3073.4	2945.2	2871.2	3051.2	2348.2	1655.1	1354.2	1277.7	1245.7	1213.6	1208.7
37.5°	3436.0	3280.6	3214.0	3149.9	2168.2	1413.4	1176.6	1124.8	1077.9	1028.6	1026.1
40°	3870.2	3667.9	3618.6	3194.3	1919.1	1186.5	1053.3	1003.9	944.7	897.9	900.3
42.5°	4370.9	4111.9	4005.8	3182.0	1610.7	1065.6	964.5	910.2	858.4	816.5	814.0
45°	4906.2	4612.6	4368.4	3095.6	1304.9	981.7	910.2	846.1	794.3	747.4	742.5
47.5°	5498.2	5170.1	4703.9	2927.9	1077.9	922.5	878.1	786.9	740.0	710.4	710.4
50°	6095.1	5702.9	5012.2	2673.8	944.7	878.1	831.3	754.8	717.8	693.1	693.1
52.5°	6605.7	6257.9	5266.3	2370.4	860.9	841.1	799.2	740.0	700.5	678.3	675.9
55°	7101.5	6773.4	5493.2	2069.5	791.8	791.8	791.8	727.7	683.3	663.5	661.1
57.5°	7594.8	7316.1	5730.0	1872.2	730.1	749.9	777.0	712.9	668.5	651.2	648.7
60°	8152.3	7967.3	6003.8	1734.1	675.9	705.5	757.3	695.6	643.8	629.0	626.5
62.5°	8744.3	8744.3	6252.9	1539.2	626.5	668.5	727.7	673.4	621.6	609.3	606.8
65°	9208.0	9407.8	6413.3	1248.1	577.2	631.5	693.1	643.8	592.0	589.5	584.6
67.5°	9262.3	9575.5	6312.1	942.3	532.8	592.0	658.6	611.7	562.4	562.4	555.0
70°	8872.5	9190.7	5996.4	705.5	500.7	552.5	614.2	572.3	525.4	530.3	518.0
72.5°	8221.3	8300.3	5212.0	557.5	463.7	510.6	559.9	527.9	485.9	485.9	468.7
75°	7362.9	6923.9	3786.3	466.2	419.3	461.3	505.7	478.5	441.5	429.2	419.3
77.5°	5860.7	5017.2	2200.2	402.1	382.3	414.4	444.0	424.3	392.2	365.1	365.1
80°	3571.7	2940.2	971.9	347.8	337.9	362.6	382.3	360.1	333.0	305.9	298.5
82.5°	1359.1	1134.7	471.1	298.5	296.0	310.8	325.6	303.4	283.7	271.3	234.3
85°	372.5	342.9	323.1	249.1	244.2	241.7	259.0	249.1	222.0	182.5	162.8
87.5°	140.6	160.3	175.1	152.9	162.8	150.5	172.7	157.9	140.6	91.3	81.4
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)