

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: P399512

Luminaire Tested: **ARCH-L-PA3-150-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399512
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-PA3-150-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23811 lumens
Efficiency: N/A
Efficacy: 155.6 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

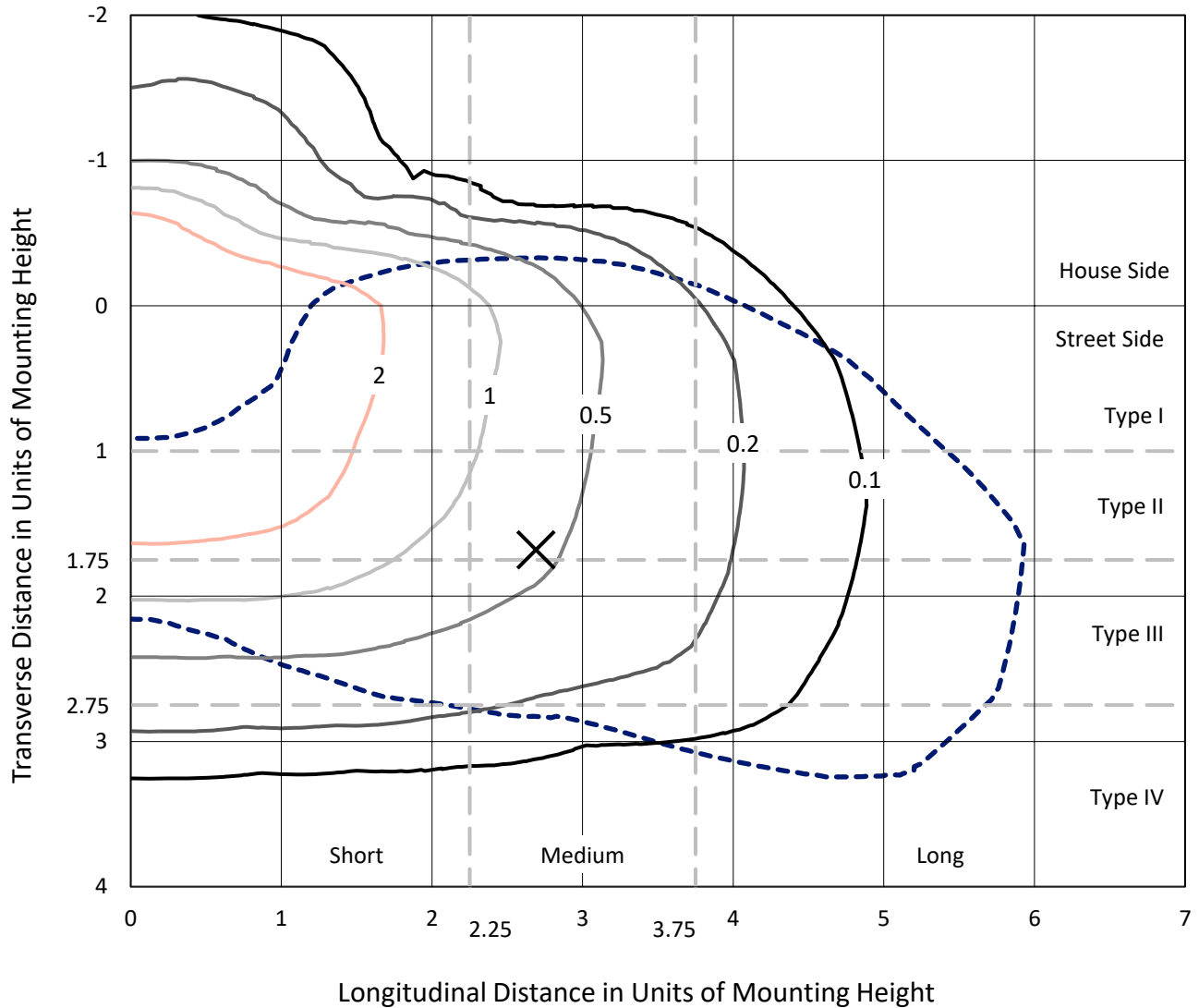
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

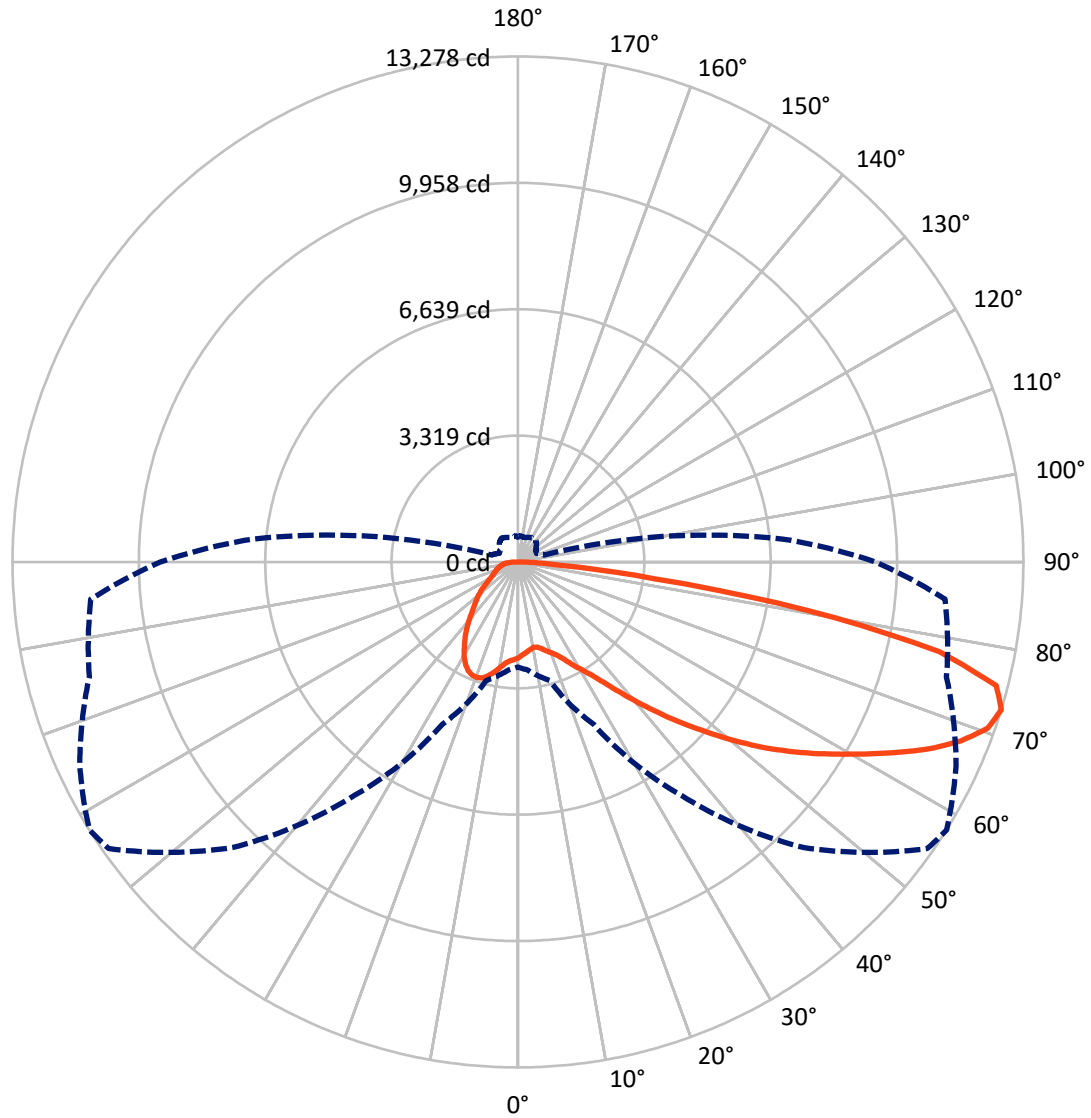
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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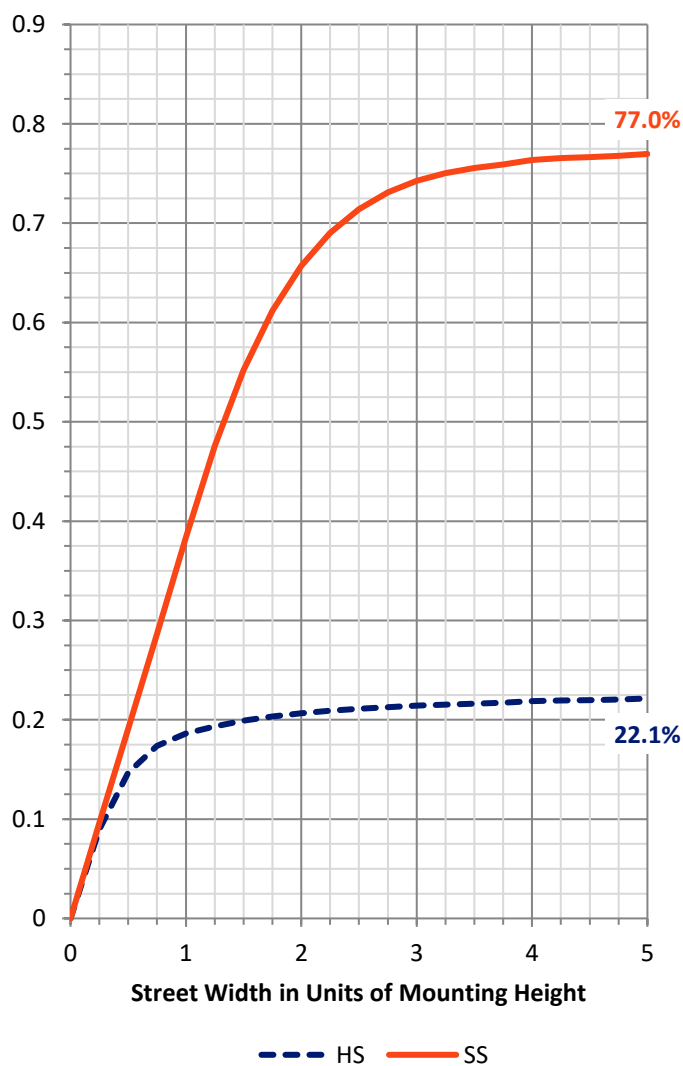
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5400.1	0.0	5400.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	18410.9	0.0	18410.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	23811.0	0.0	23811.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.0
10°-20°	768.3	3.2
20°-30°	1376.4	5.8
30°-40°	2070.4	8.7
40°-50°	3352.8	14.1
50°-60°	5047.0	21.2
60°-70°	5939.8	24.9
70°-80°	4211.8	17.7
80°-90°	802.6	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°	23811.0	100.0
0°-180°	23811.0	100.0

Coefficient of Utilization



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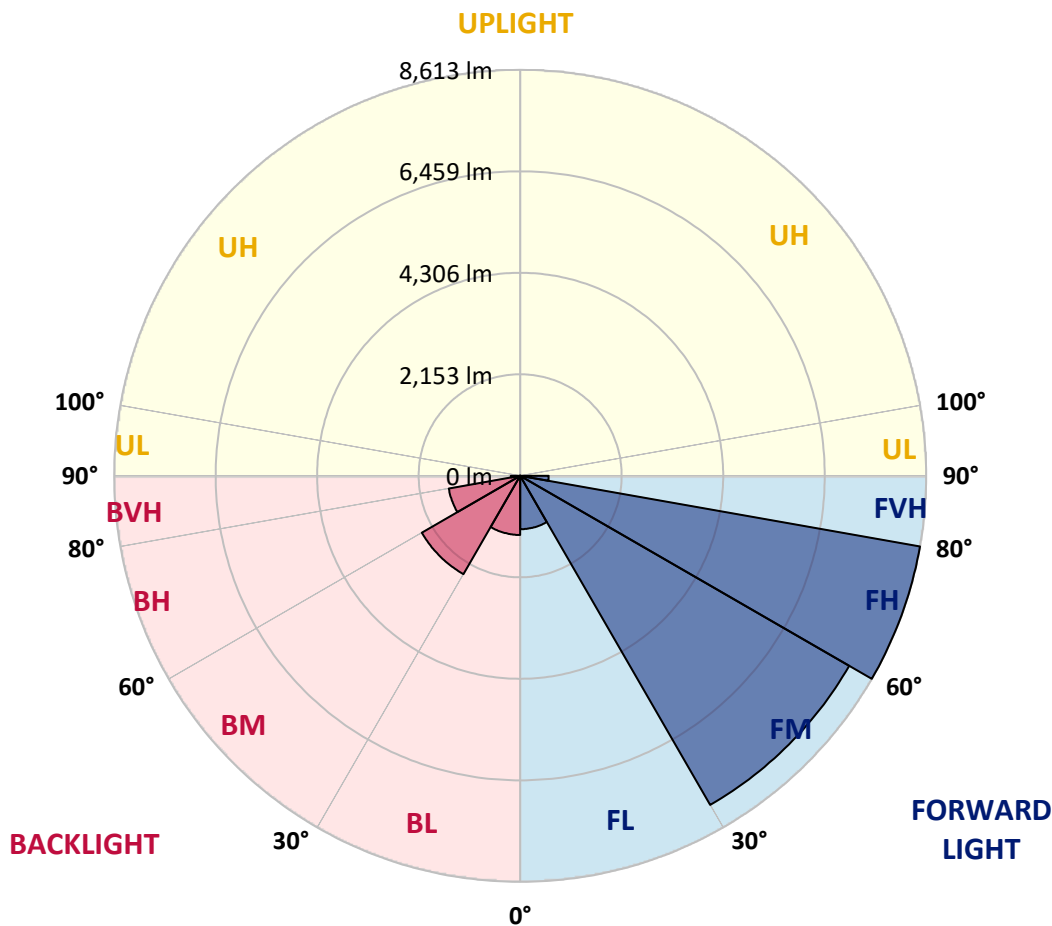
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.3	4.8			
FM (30°-60°)	8060.7	33.9			
FH (60°-80°)	8612.5	36.2			G4/12000
FVH (80°-90°)	605.4	2.5			G4/750
BL (0°-30°)	1254.3	5.3	B3/2500		
BM (30°-60°)	2409.5	10.1	B2/2500		
BH (60°-80°)	1539.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	197.2	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°	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6
2.5°	2417.3	2404.7	2407.8	2407.8	2420.4	2426.7	2429.8	2439.3	2445.5	2461.3	2483.3
5°	2304.1	2294.7	2297.8	2300.9	2323.0	2345.0	2363.8	2376.4	2395.2	2420.4	2451.8
7.5°	2222.4	2216.1	2219.2	2225.5	2244.4	2269.5	2300.9	2319.8	2348.1	2395.2	2448.7
10°	2162.6	2162.6	2165.8	2178.4	2197.2	2228.7	2253.8	2275.8	2332.4	2417.3	2499.0
12.5°	2115.5	2115.5	2124.9	2150.1	2181.5	2212.9	2272.7	2297.8	2373.2	2489.6	2587.0
15°	2112.3	2115.5	2118.6	2140.6	2175.2	2244.4	2332.4	2370.1	2461.3	2599.6	2712.7
17.5°	2162.6	2165.8	2153.2	2159.5	2200.4	2297.8	2414.1	2458.1	2574.4	2725.3	2841.6
20°	2316.7	2316.7	2278.9	2244.4	2272.7	2379.5	2511.6	2555.6	2684.4	2851.0	2967.3
22.5°	2631.0	2646.7	2558.7	2483.3	2439.3	2499.0	2618.4	2665.6	2810.2	2989.3	3105.7
25°	3011.4	3027.1	2907.6	2800.7	2719.0	2709.6	2788.2	2838.5	2957.9	3143.4	3240.8
27.5°	3379.1	3350.8	3240.8	3140.2	3036.5	2951.6	3011.4	3055.4	3193.7	3335.1	3394.8
30°	3668.3	3646.3	3539.4	3467.1	3369.7	3259.7	3225.1	3272.3	3385.4	3517.4	3548.9
32.5°	3988.9	3973.2	3866.3	3772.0	3690.3	3586.6	3511.1	3533.2	3596.0	3690.3	3709.2
35°	4397.6	4432.2	4319.0	4127.2	4036.1	3935.5	3882.1	3888.4	3935.5	3995.2	3963.8
37.5°	4828.2	4869.1	4875.4	4573.6	4451.0	4359.9	4303.3	4325.3	4381.9	4422.7	4325.3
40°	5626.6	5585.8	5422.3	5199.1	5010.5	4922.5	4843.9	4840.8	4881.7	4954.0	4777.9
42.5°	6686.0	6648.2	6318.2	6029.0	5730.4	5629.8	5475.8	5409.7	5428.6	5519.8	5274.6
45°	7701.3	7685.5	7421.5	7085.2	6726.8	6531.9	6179.9	6019.6	6003.8	6076.1	5783.8
47.5°	8603.4	8534.3	8342.5	8081.6	8043.9	7534.7	6887.1	6670.2	6594.8	6635.7	6308.7
50°	9568.4	9332.7	9068.6	8908.3	9181.8	8707.1	7600.7	7374.4	7188.9	7217.2	6877.7
52.5°	10080.8	9684.7	9511.8	9559.0	9926.8	9744.5	8377.1	8100.5	7801.8	7842.7	7443.5
55°	9640.7	9637.6	9713.0	10005.4	10517.7	10307.1	9115.8	8804.6	8477.7	8487.1	8094.2
57.5°	9037.2	9159.8	9549.6	10194.0	11250.1	10898.1	9841.9	9511.8	9213.2	9166.1	8832.9
60°	8487.1	8622.3	9188.1	10162.5	11504.7	11438.7	10533.4	10244.2	10002.2	9863.9	9609.3
62.5°	7651.0	7751.6	8553.1	9961.3	11291.0	11828.5	11234.4	11036.4	10854.1	10568.0	10445.4
65°	6667.1	6701.7	7547.2	9298.1	11023.8	11979.4	11932.2	11844.2	11668.2	11247.0	11272.1
67.5°	5601.5	5670.6	6412.5	8238.8	10439.1	11910.2	12472.9	12545.2	12337.7	11705.9	11800.2
70°	4466.7	4551.6	5114.3	6774.0	9445.8	11611.6	12972.7	13089.0	12689.8	11856.8	11897.7
72.5°	2763.0	2844.8	3222.0	4705.6	7487.5	10608.9	13126.7	13277.6	12699.2	11655.6	11262.7
75°	955.6	965.0	1260.5	2256.9	4444.7	8009.3	12623.8	12979.0	12300.0	10923.2	9801.0
77.5°	436.9	452.6	559.5	930.4	1970.9	4322.1	10423.4	11313.0	11086.7	9779.0	7544.1
80°	301.8	308.1	386.6	556.4	1137.9	1521.4	6579.1	7739.0	8135.0	7572.4	4834.5
82.5°	226.3	232.6	298.6	377.2	820.4	738.7	2505.3	3596.0	4469.9	4388.1	2021.2
85°	216.9	213.7	232.6	251.5	546.9	440.1	811.0	1112.8	1744.6	1493.1	509.2
87.5°	94.3	103.7	238.9	141.5	286.0	204.3	352.1	411.8	531.2	462.1	182.3
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°	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6	2511.6
2.5°	2492.7	2499.0	2517.8	2546.1	2561.8	2593.3	2615.3	2627.9	2637.3	2640.4	2640.4
5°	2470.7	2483.3	2524.1	2571.3	2615.3	2681.3	2741.0	2775.6	2800.7	2810.2	2813.3
7.5°	2477.0	2508.4	2568.1	2637.3	2693.9	2778.7	2851.0	2920.2	2976.8	2998.8	2998.8
10°	2536.7	2580.7	2662.4	2753.6	2825.9	2913.9	2989.3	3049.1	3115.1	3152.8	3159.1
12.5°	2627.9	2681.3	2788.2	2888.8	2970.5	3039.6	3108.8	3152.8	3184.2	3212.5	3218.8
15°	2756.7	2822.7	2929.6	3033.4	3105.7	3149.7	3168.5	3168.5	3165.4	3168.5	3174.8
17.5°	2885.6	2948.5	3055.4	3159.1	3193.7	3168.5	3146.5	3140.2	3137.1	3130.8	3133.9
20°	3011.4	3071.1	3162.2	3240.8	3212.5	3124.5	3096.2	3093.1	3083.6	3077.4	3071.1
22.5°	3137.1	3181.1	3256.5	3284.8	3171.7	3045.9	3011.4	2992.5	2979.9	2964.2	2948.5
25°	3281.7	3294.3	3350.8	3306.8	3071.1	2901.3	2851.0	2822.7	2810.2	2794.5	2781.9
27.5°	3416.8	3416.8	3426.3	3272.3	2923.3	2709.6	2634.1	2583.9	2580.7	2577.6	2574.4
30°	3539.4	3523.7	3492.3	3168.5	2731.6	2473.8	2360.7	2310.4	2329.2	2345.0	2348.1
32.5°	3684.0	3652.6	3564.6	3027.1	2502.1	2209.8	2071.5	2049.5	2071.5	2090.3	2077.8
35°	3910.4	3853.8	3640.0	2863.6	2282.1	1967.8	1835.7	1804.3	1798.0	1794.9	1769.7
37.5°	4234.1	4136.7	3699.7	2687.6	2065.2	1754.0	1656.6	1590.5	1530.8	1468.0	1458.5
40°	4630.2	4463.6	3740.6	2486.4	1835.7	1574.8	1471.1	1386.2	1285.6	1175.6	1163.0
42.5°	5064.0	4815.6	3759.5	2263.2	1634.6	1427.1	1298.2	1191.3	1078.2	993.3	977.6
45°	5532.3	5196.0	3743.8	2049.5	1471.1	1301.4	1156.8	1040.5	949.3	889.6	877.0
47.5°	5988.1	5632.9	3699.7	1879.7	1345.4	1194.5	1046.7	939.9	870.7	804.7	789.0
50°	6572.8	6051.0	3646.3	1747.7	1207.1	1087.6	977.6	864.4	785.8	754.4	748.1
52.5°	7220.3	6469.1	3583.4	1581.1	1071.9	1002.7	933.6	833.0	807.8	748.1	738.7
55°	7921.3	6965.7	3570.9	1370.5	952.4	943.0	889.6	861.3	867.6	748.1	732.4
57.5°	8660.0	7496.9	3599.2	1159.9	855.0	889.6	908.4	886.4	877.0	763.8	732.4
60°	9430.1	8009.3	3514.3	965.0	779.6	845.6	930.4	873.9	804.7	757.6	735.5
62.5°	10178.2	8440.0	3146.5	826.7	723.0	833.0	917.9	826.7	748.1	748.1	738.7
65°	10722.0	8631.7	2461.3	726.1	685.3	817.3	895.9	795.3	732.4	754.4	741.8
67.5°	10784.9	8433.7	1653.4	647.5	653.8	789.0	845.6	767.0	716.7	773.3	754.4
70°	10398.3	7918.2	1012.2	587.8	613.0	738.7	801.6	738.7	694.7	757.6	729.3
72.5°	9395.5	6956.3	713.5	537.5	569.0	691.5	760.7	713.5	663.3	685.3	657.0
75°	7707.5	5390.9	565.8	490.4	524.9	647.5	726.1	675.8	625.5	616.1	597.2
77.5°	5460.0	3454.6	455.8	452.6	477.8	594.1	679.0	631.8	581.5	562.7	550.1
80°	3140.2	1694.3	392.9	408.6	433.8	540.7	622.4	581.5	534.4	506.1	487.2
82.5°	1200.8	591.0	345.8	355.2	383.5	484.1	565.8	531.2	484.1	509.2	427.5
85°	389.8	323.8	282.9	292.3	320.6	402.4	499.8	471.5	418.1	370.9	342.6
87.5°	172.9	176.0	150.9	166.6	201.2	267.2	364.6	345.8	304.9	254.6	245.2
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)