

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: P265684

Luminaire Tested: **ARCH-L-AF72-210-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21865.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 211
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

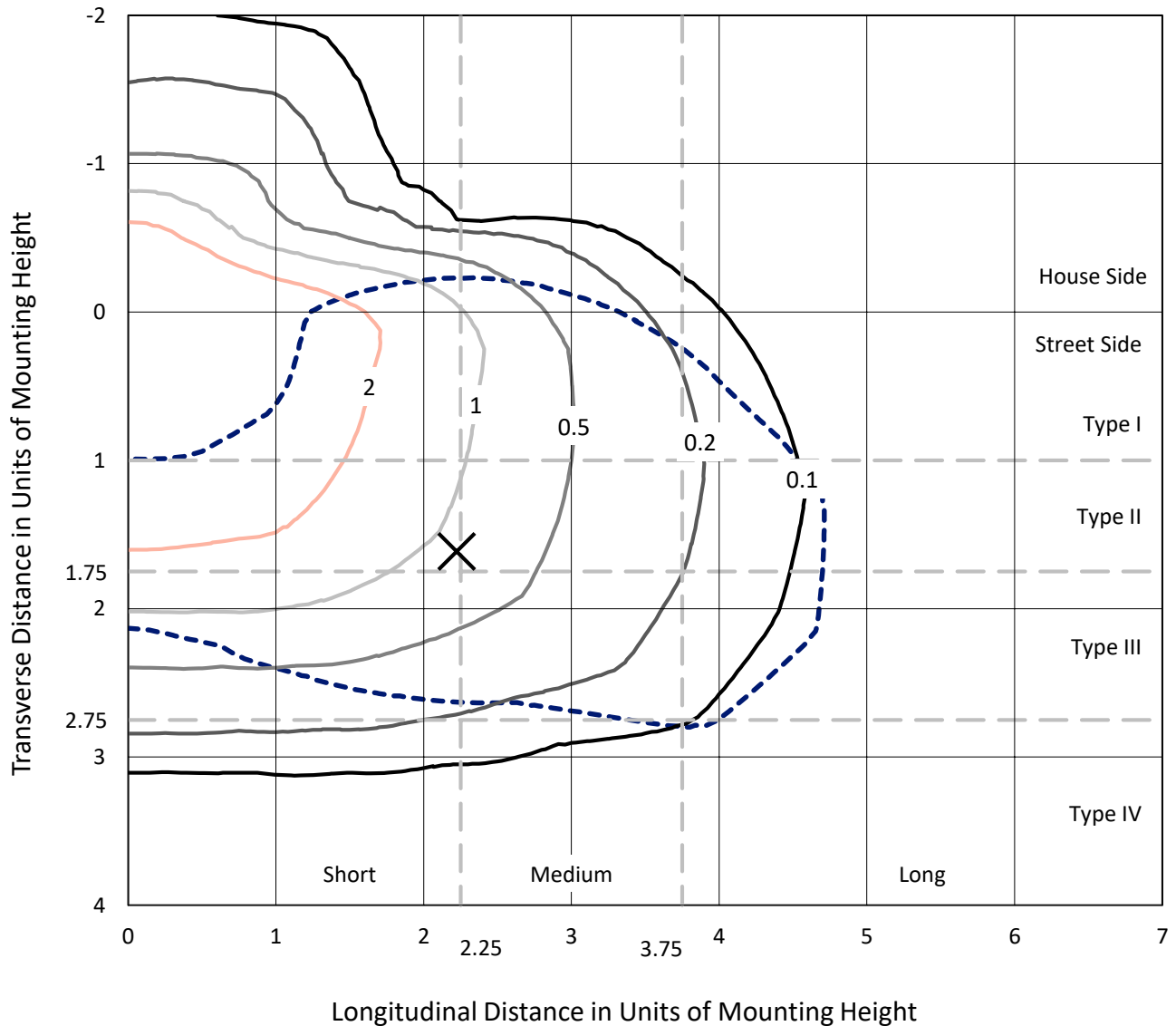




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Iso-Footcandle Lines of Horizontal Illumination

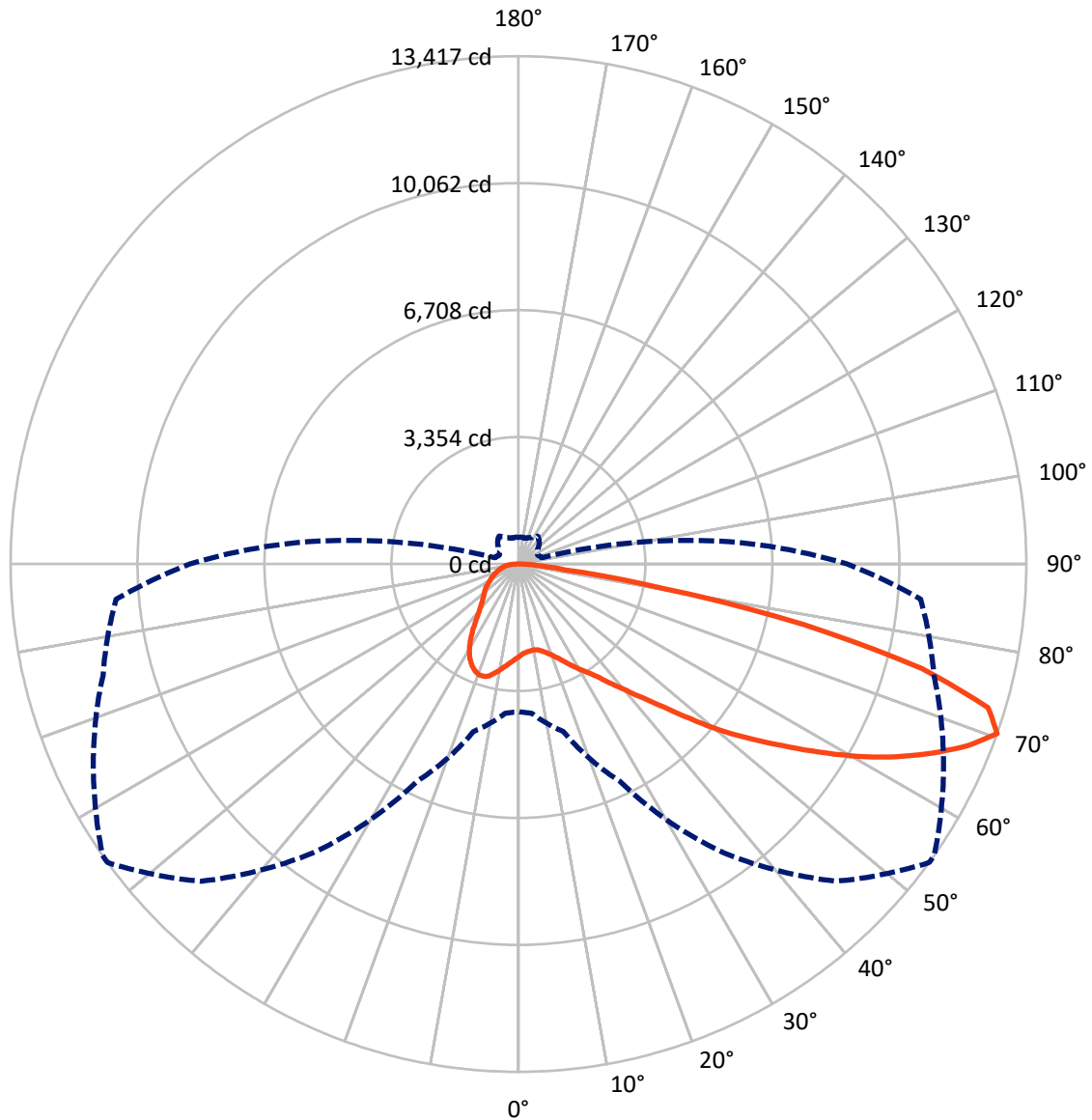
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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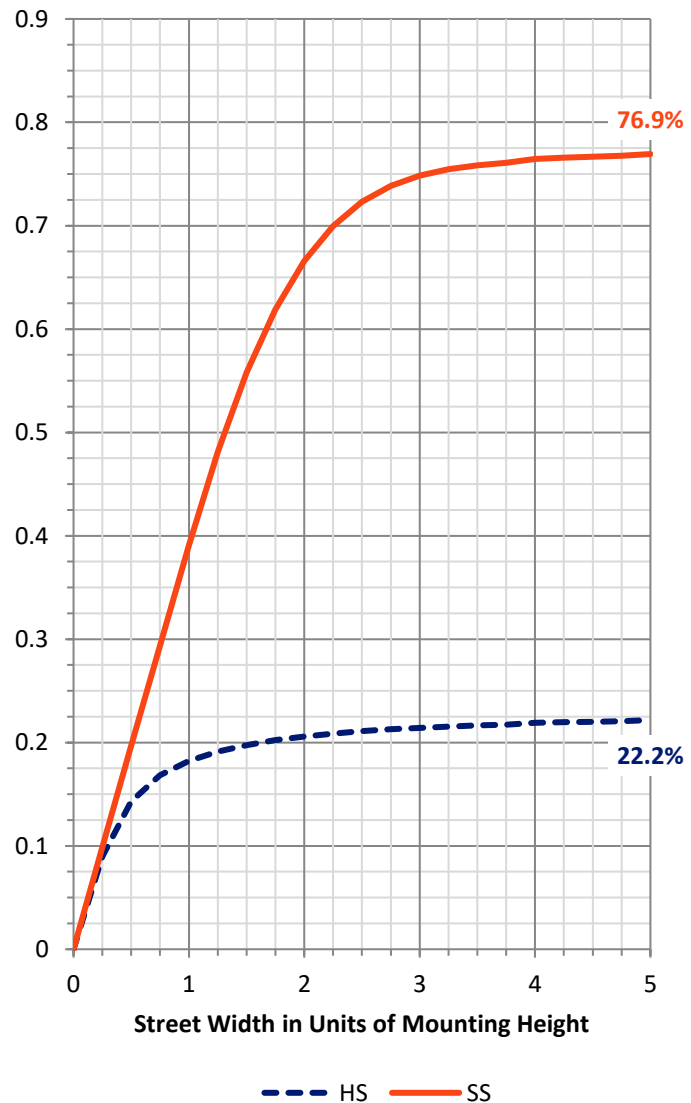
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4959.0	0.0	4959.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16906.4	0.0	16906.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	21865.4	0.0	21865.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.1
10°-20°	767.1	3.5
20°-30°	1332.7	6.1
30°-40°	1947.6	8.9
40°-50°	3056.7	14.0
50°-60°	4700.5	21.5
60°-70°	5742.9	26.3
70°-80°	3560.6	16.3
80°-90°	517.2	2.4
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°	21865.4	100.0
0°-180°	21865.4	100.0



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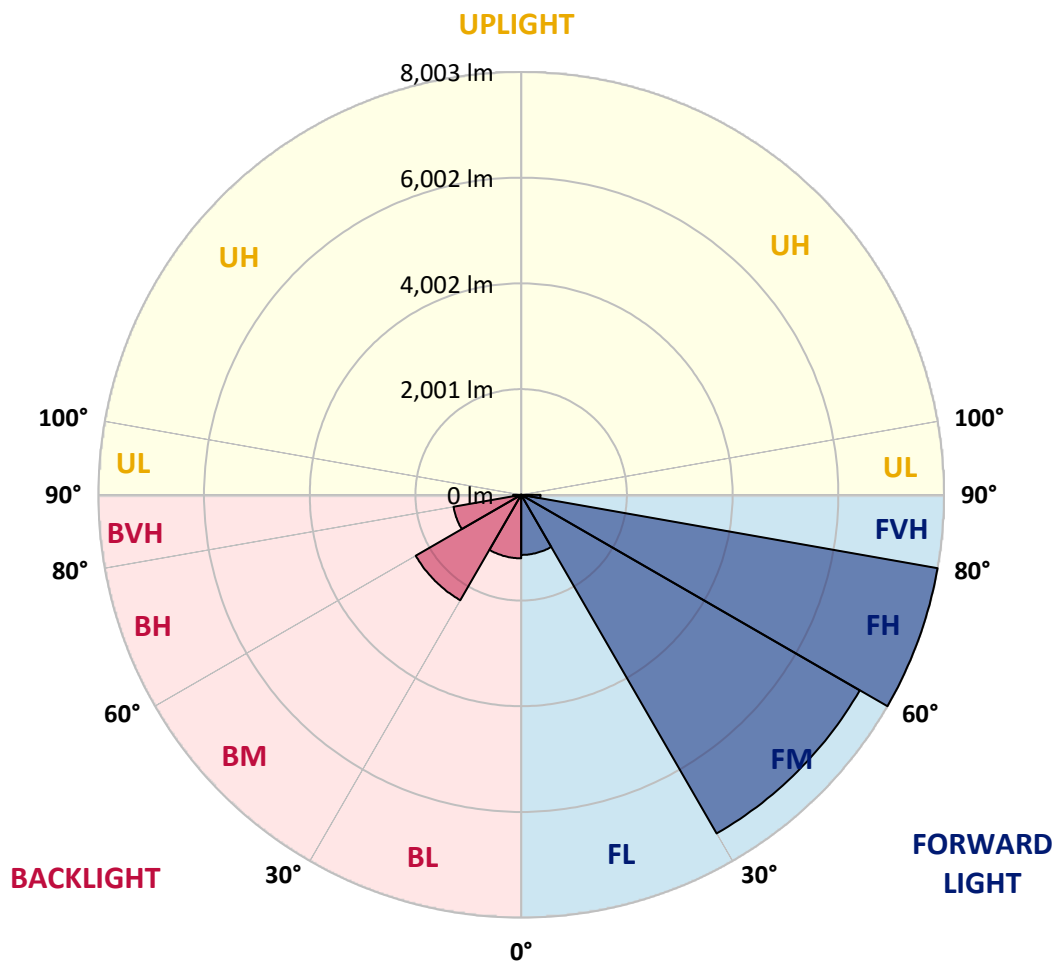
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.7	5.2			
FM	(30°-60°)	7400.4	33.8			
FH	(60°-80°)	8003.1	36.6			G4/12000
FVH	(80°-90°)	365.2	1.7			G3/500
BL	(0°-30°)	1202.2	5.5	B3/2500		
BM	(30°-60°)	2304.4	10.5	B2/2500		
BH	(60°-80°)	1300.4	5.9	B3/2500		G3/2500
BVH	(80°-90°)	152.0	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
2.5°	2350.2	2342.2	2342.2	2354.2	2358.2	2370.3	2370.3	2374.2	2386.3	2406.3	2430.3
5°	2278.1	2274.1	2278.1	2294.1	2302.1	2326.3	2334.2	2338.2	2362.3	2394.3	2430.3
7.5°	2206.1	2202.0	2210.1	2234.2	2258.1	2294.1	2314.2	2318.2	2354.2	2398.3	2446.4
10°	2182.1	2178.0	2190.1	2210.1	2234.2	2274.1	2306.2	2310.3	2362.3	2414.3	2482.3
12.5°	2214.1	2210.1	2222.0	2242.1	2266.2	2294.1	2330.3	2334.2	2402.2	2470.2	2542.5
15°	2294.1	2294.1	2298.1	2310.3	2334.2	2358.2	2390.2	2394.3	2466.3	2546.3	2618.5
17.5°	2418.2	2410.2	2410.2	2406.3	2422.3	2434.2	2474.3	2478.3	2554.4	2626.5	2698.6
20°	2570.4	2566.4	2550.4	2530.3	2526.4	2534.4	2574.5	2578.4	2654.5	2714.6	2782.6
22.5°	2754.7	2758.5	2722.6	2678.6	2658.5	2670.5	2706.6	2710.5	2766.6	2818.6	2878.7
25°	2998.8	2986.9	2934.8	2870.8	2830.6	2830.6	2866.8	2866.8	2918.8	2950.8	2990.7
27.5°	3231.1	3206.9	3159.0	3067.0	3002.9	3014.8	3050.9	3050.9	3099.0	3110.9	3131.0
30°	3483.3	3459.3	3399.1	3283.0	3199.0	3191.0	3235.1	3231.1	3295.2	3291.1	3275.1
32.5°	3791.6	3779.6	3679.5	3531.3	3419.2	3391.2	3431.3	3435.2	3475.3	3463.2	3411.3
35°	4224.0	4220.0	4127.9	3867.7	3719.5	3667.4	3691.4	3691.4	3719.5	3687.5	3599.4
37.5°	4768.6	4776.5	4696.3	4312.0	4103.8	4015.8	4019.7	4015.8	4023.8	3987.8	3895.7
40°	5312.9	5333.0	5329.0	4864.6	4600.3	4448.1	4392.2	4384.1	4404.1	4388.1	4300.0
42.5°	6029.7	6077.8	5965.6	5545.1	5248.9	4992.7	4840.5	4820.6	4864.6	4884.7	4800.5
45°	6774.4	6758.4	6582.2	6278.0	6009.7	5681.3	5393.1	5361.1	5393.1	5453.2	5365.0
47.5°	7162.7	7150.7	7106.8	6954.6	6914.6	6538.1	6101.7	6073.7	6013.7	6097.8	5993.6
50°	7803.3	7815.3	7635.1	7619.2	7787.3	7579.1	6902.4	6838.4	6730.3	6798.5	6710.2
52.5°	8267.8	8215.7	8103.6	8243.7	8768.3	8656.2	7655.1	7627.1	7527.1	7511.1	7471.1
55°	8455.9	8455.9	8476.0	8800.2	9549.1	9400.9	8471.9	8500.0	8363.8	8251.8	8303.8
57.5°	8512.0	8536.1	8708.2	9244.6	10465.9	9981.3	9372.8	9412.9	9216.7	8992.5	9156.7
60°	8235.8	8307.9	8720.1	9496.9	10982.3	10597.9	10321.7	10333.7	10049.5	9721.2	10009.5
62.5°	7527.1	7615.1	8351.8	9601.1	10898.2	11230.6	11218.6	11246.6	10858.3	10449.9	10810.2
65°	6658.2	6746.4	7531.1	9308.7	10834.2	11682.9	12039.4	12115.4	11614.9	11066.4	11310.6
67.5°	5381.0	5497.2	6241.9	8323.9	10521.8	12055.3	12808.0	12888.2	12199.5	11386.7	11266.6
70°	3899.6	3955.7	4580.3	6326.0	9248.7	11851.2	13416.6	13412.7	12391.7	11362.8	10666.0
72.5°	1877.7	1921.8	2462.3	3927.7	6614.2	10057.5	12976.1	13052.3	12127.4	11014.4	9292.7
75°	772.7	816.7	996.8	1657.6	3471.3	6646.3	10998.4	11178.5	11014.4	9885.3	7270.8
77.5°	480.5	496.5	584.5	856.9	1585.5	3102.9	7699.3	7943.5	8728.2	7919.5	4800.5
80°	360.3	372.3	436.3	600.5	1000.9	1145.1	3823.5	4131.8	5289.0	4544.3	2174.1
82.5°	300.3	304.3	348.4	436.3	680.6	656.7	1225.2	1365.2	2466.3	1733.5	748.6
85°	280.4	288.3	312.3	312.3	432.4	412.4	508.5	532.4	716.7	592.5	260.2
87.5°	144.2	136.2	276.3	244.2	224.1	200.2	216.2	232.2	268.2	284.3	116.2
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°	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4	2446.4
2.5°	2438.3	2450.2	2470.2	2490.3	2514.4	2542.5	2558.5	2578.4	2594.5	2586.4	2582.4
5°	2450.2	2470.2	2514.4	2554.4	2602.5	2658.5	2694.6	2734.6	2766.6	2774.7	2762.6
7.5°	2470.2	2506.4	2566.4	2638.5	2702.6	2774.7	2830.6	2886.8	2926.8	2934.8	2934.8
10°	2518.4	2558.5	2638.5	2734.6	2810.6	2886.8	2950.8	2994.8	3030.8	3047.0	3047.0
12.5°	2586.4	2634.5	2730.6	2846.6	2930.8	3002.9	3038.8	3058.9	3074.9	3090.9	3094.9
15°	2666.4	2718.6	2834.7	2958.7	3047.0	3083.0	3083.0	3078.9	3078.9	3086.8	3094.9
17.5°	2746.6	2802.6	2922.7	3054.9	3110.9	3090.9	3063.0	3050.9	3042.9	3038.8	3050.9
20°	2830.6	2886.8	3006.8	3131.0	3115.0	3030.8	2990.7	2962.8	2938.7	2926.8	2942.8
22.5°	2922.7	2974.7	3099.0	3183.1	3063.0	2934.8	2858.6	2814.7	2774.7	2750.6	2766.6
25°	3030.8	3083.0	3202.9	3199.0	2970.8	2790.7	2670.5	2598.4	2554.4	2530.3	2530.3
27.5°	3159.0	3202.9	3319.1	3159.0	2842.6	2598.4	2422.3	2354.2	2342.2	2322.2	2322.2
30°	3291.1	3327.1	3427.3	3067.0	2666.4	2346.3	2154.0	2121.9	2126.0	2105.9	2109.9
32.5°	3427.3	3463.2	3491.4	2930.8	2438.3	2061.9	1933.8	1909.7	1905.8	1889.8	1873.8
35°	3619.5	3671.5	3499.3	2746.6	2162.0	1825.7	1733.5	1709.7	1685.6	1629.5	1629.5
37.5°	3911.7	3967.8	3479.2	2518.4	1877.7	1641.6	1557.5	1525.4	1485.3	1429.4	1409.4
40°	4312.0	4312.0	3435.2	2262.1	1649.6	1493.4	1413.4	1373.2	1329.2	1273.2	1261.2
42.5°	4784.6	4672.4	3367.1	2002.0	1481.3	1393.4	1321.2	1277.2	1225.2	1161.1	1153.1
45°	5337.0	5032.8	3271.1	1769.8	1357.2	1333.3	1289.2	1213.2	1125.0	1056.9	1045.0
47.5°	5873.5	5357.0	3179.0	1605.5	1253.1	1309.2	1273.2	1145.1	1025.0	928.8	916.9
50°	6462.0	5645.3	3070.9	1469.4	1173.0	1293.2	1253.1	1045.0	912.9	844.8	836.9
52.5°	7050.6	5937.5	2954.7	1325.3	1105.0	1261.2	1205.2	973.0	908.8	816.7	804.7
55°	7671.3	6278.0	2818.6	1165.1	1025.0	1197.1	1141.0	968.9	936.9	816.7	788.7
57.5°	8275.7	6654.3	2598.4	1008.9	936.9	1101.1	1117.0	944.8	876.8	808.7	776.8
60°	8944.5	7054.6	2234.2	876.8	860.8	1021.0	1085.1	892.8	808.7	784.7	768.7
62.5°	9480.9	7415.0	1745.6	784.7	796.7	957.0	1045.0	860.8	780.7	760.8	756.7
65°	9713.2	7423.0	1253.1	704.7	732.7	896.9	1004.9	832.8	756.7	748.6	744.8
67.5°	9468.9	7014.7	880.8	628.6	664.7	840.9	952.9	804.7	732.7	736.7	728.6
70°	8680.1	6153.7	644.7	556.5	600.5	780.7	896.9	768.7	704.7	712.6	700.7
72.5°	7262.8	4796.5	516.4	496.5	548.5	716.7	840.9	728.6	660.7	664.7	640.6
75°	5365.0	3179.0	432.4	444.4	488.5	656.7	768.7	676.7	612.6	596.6	580.6
77.5°	3191.0	1633.6	356.4	388.3	436.3	584.5	688.6	612.6	560.5	532.4	520.5
80°	1317.3	660.7	292.3	328.3	380.3	520.5	608.6	536.5	500.4	472.5	456.3
82.5°	524.5	324.3	232.2	268.2	320.2	452.4	532.4	472.5	436.3	416.4	372.3
85°	200.2	160.2	156.1	188.1	240.2	348.4	440.3	396.4	368.3	316.4	304.3
87.5°	80.0	72.0	72.0	92.0	136.2	220.3	316.4	276.3	288.3	228.2	232.2
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)