

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: P400297

Luminaire Tested: **ARCH-L-PA3-260-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400297
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-PA3-260-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34210 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

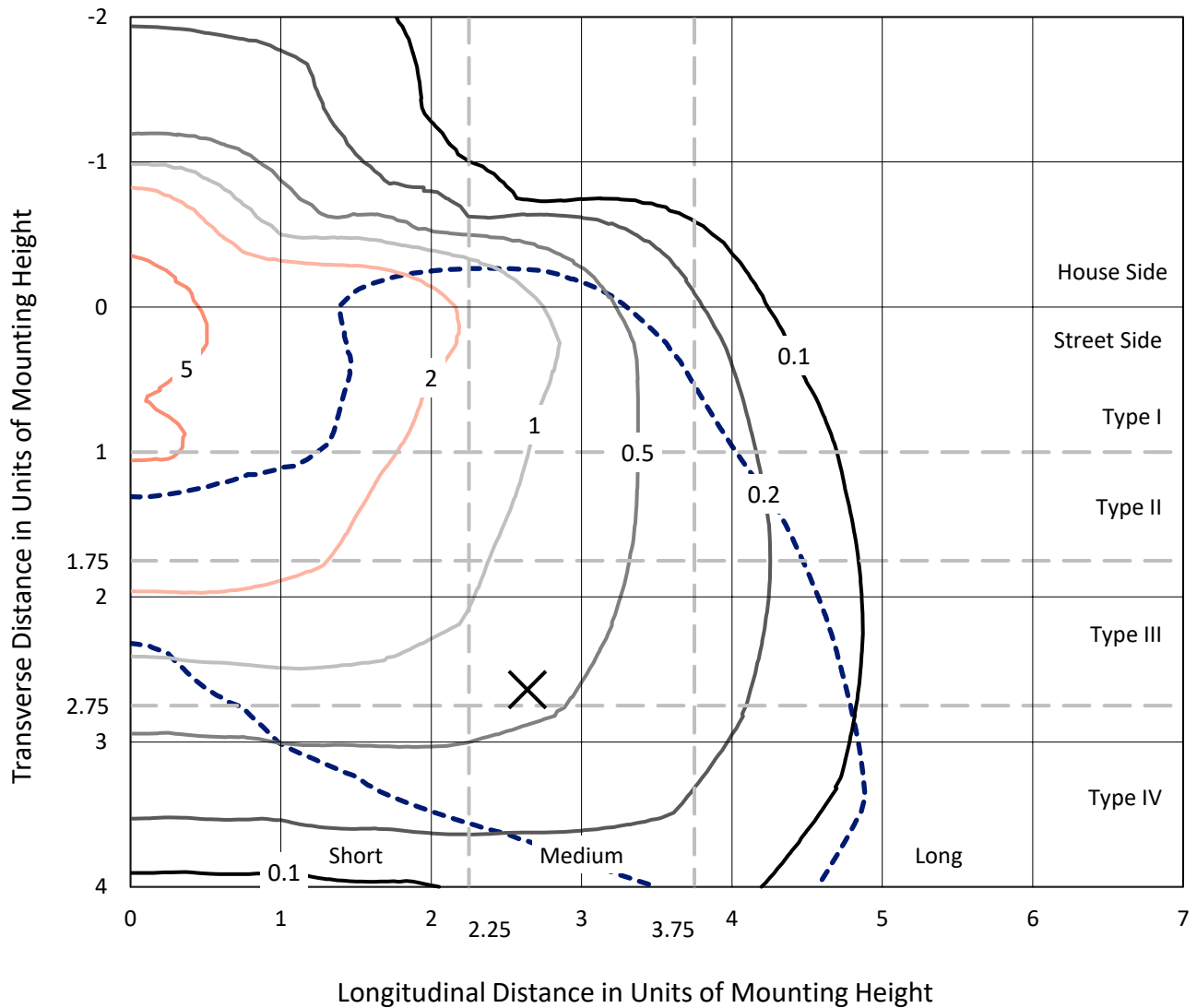
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

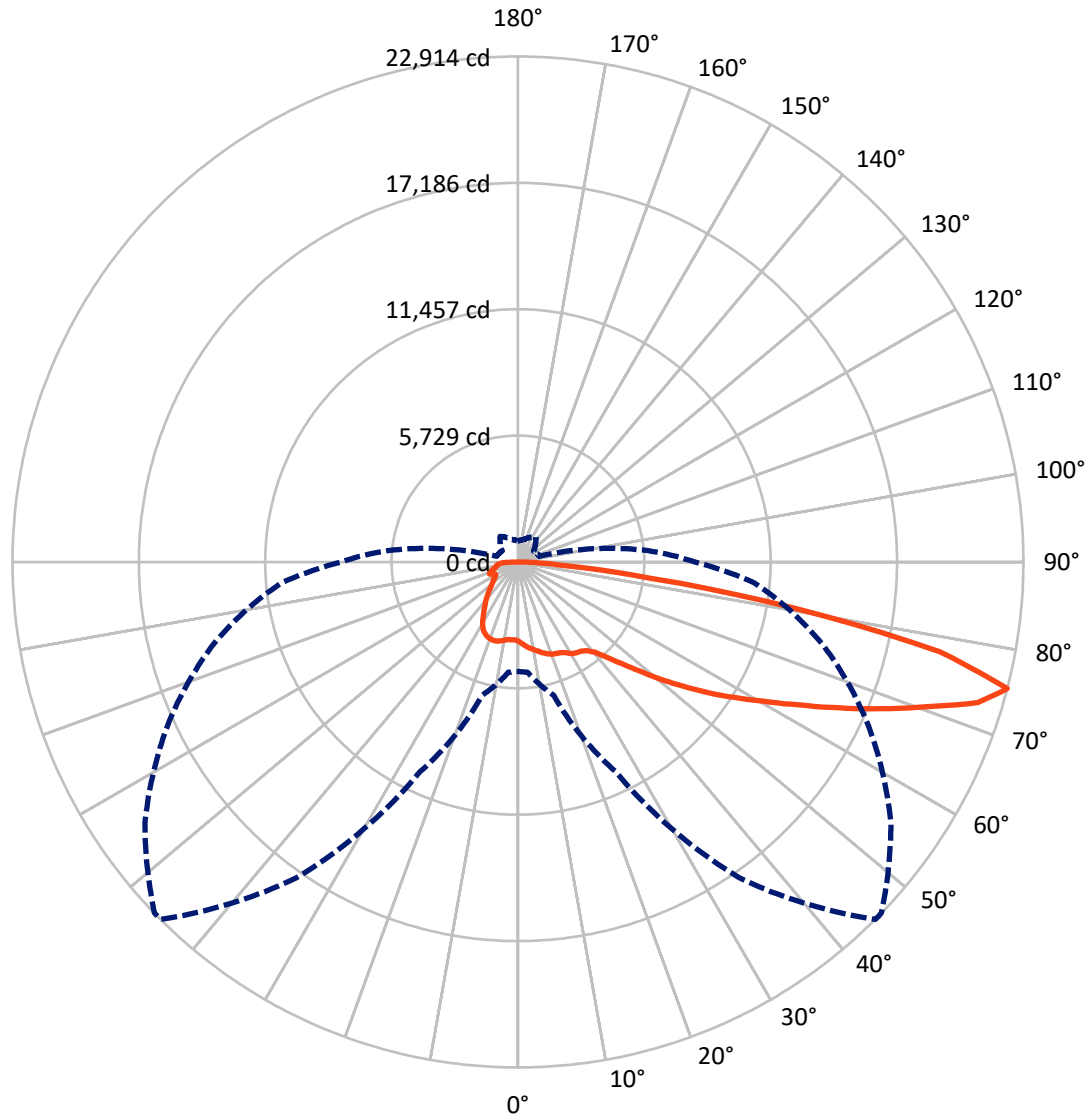
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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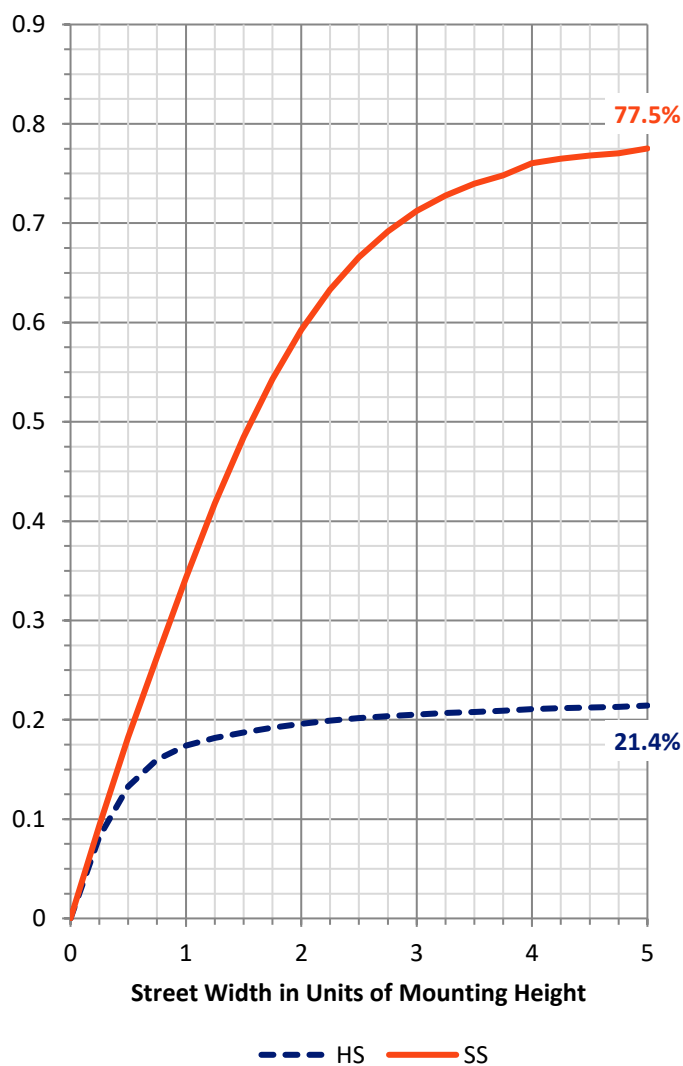
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7560.2	0.0	7560.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	26649.8	0.0	26649.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	34210.0	0.0	34210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.0
10°-20°	1130.8	3.3
20°-30°	1927.8	5.6
30°-40°	2701.1	7.9
40°-50°	3968.2	11.6
50°-60°	6315.5	18.5
60°-70°	8983.8	26.3
70°-80°	7522.1	22.0
80°-90°	1305.5	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°	34210.0	100.0
0°-180°	34210.0	100.0

Coefficient of Utilization

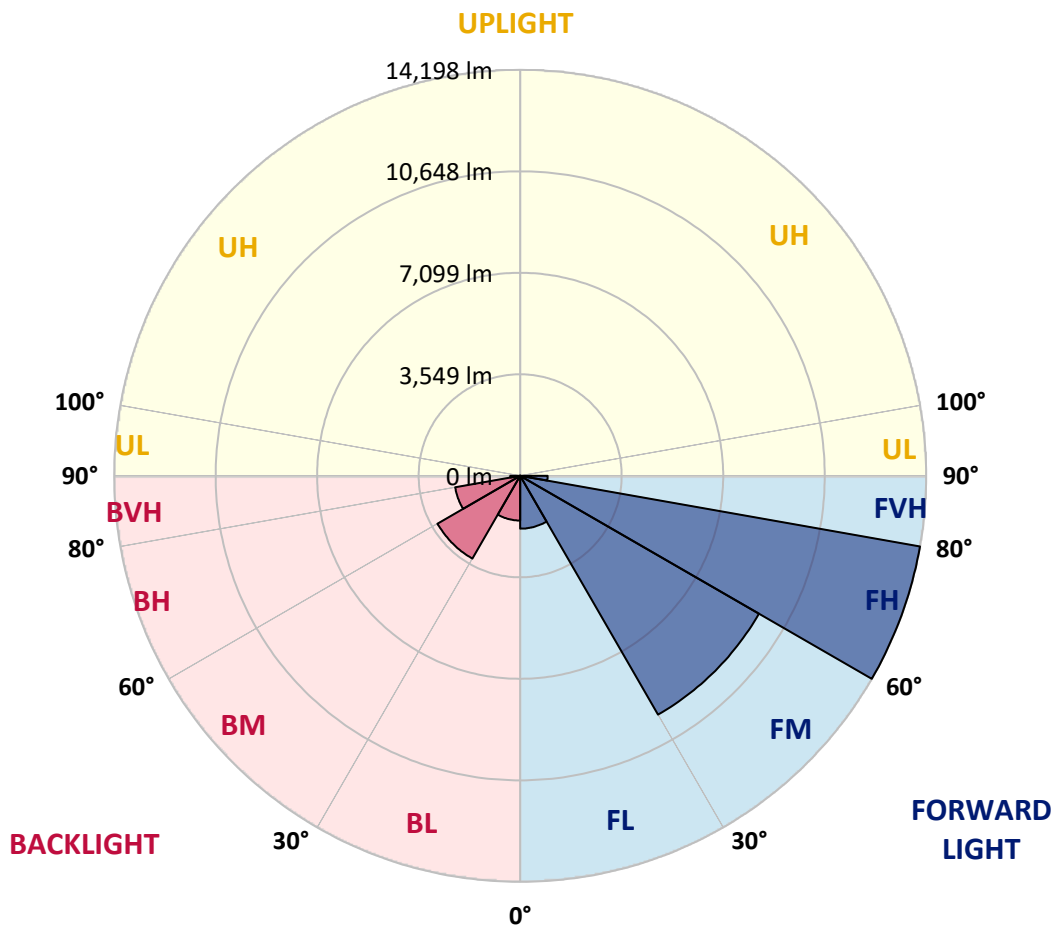


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1849.3	5.4			
FM (30°-60°)	9642.8	28.2			
FH (60°-80°)	14198.0	41.5			G5
FVH (80°-90°)	959.7	2.8			G5
BL (0°-30°)	1564.7	4.6	B3/2500		
BM (30°-60°)	3342.0	9.8	B3/5000		
BH (60°-80°)	2307.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	345.7	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8
2.5°	3798.5	3780.2	3771.1	3771.1	3734.5	3711.6	3707.1	3675.1	3647.7	3620.2	3597.4
5°	4017.9	4004.2	3976.8	3953.9	3903.6	3839.6	3830.5	3761.9	3693.4	3629.4	3574.5
7.5°	4219.0	4191.6	4159.6	4113.9	4031.6	3944.8	3931.1	3835.1	3739.1	3643.1	3569.9
10°	4388.2	4360.7	4315.0	4251.0	4145.9	4040.8	4027.0	3926.5	3825.9	3711.6	3606.5
12.5°	4548.1	4525.3	4456.7	4369.9	4246.5	4150.5	4136.7	4049.9	3944.8	3816.8	3679.6
15°	4685.3	4662.4	4589.3	4488.7	4347.0	4273.9	4255.6	4173.3	4068.2	3931.1	3789.4
17.5°	4753.8	4753.8	4676.1	4566.4	4433.9	4379.0	4365.3	4264.7	4168.7	4036.2	3894.5
20°	4776.7	4785.8	4731.0	4598.4	4484.1	4461.3	4447.6	4365.3	4255.6	4127.6	3995.0
22.5°	4790.4	4808.7	4763.0	4612.1	4516.1	4502.4	4493.3	4438.4	4351.6	4228.2	4095.6
25°	4836.1	4836.1	4804.1	4635.0	4557.3	4552.7	4552.7	4520.7	4461.3	4356.2	4223.6
27.5°	4904.7	4900.1	4859.0	4685.3	4648.7	4662.4	4657.8	4653.3	4612.1	4507.0	4365.3
30°	5018.9	5018.9	4973.2	4785.8	4763.0	4822.4	4827.0	4836.1	4772.1	4607.6	4493.3
32.5°	5192.6	5174.4	5128.7	4886.4	4849.8	4904.7	4913.8	4909.2	4854.4	4699.0	4644.1
35°	5727.5	5686.3	5521.8	5110.4	4927.5	4959.5	4964.1	4987.0	4996.1	4872.7	4845.2
37.5°	6664.5	6609.7	6358.2	5640.6	5174.4	5096.7	5092.1	5151.5	5201.8	5092.1	5092.1
40°	7683.8	7638.1	7491.9	6554.8	5631.5	5375.5	5357.2	5412.1	5476.0	5398.3	5421.2
42.5°	8561.5	8598.0	8611.7	7523.9	6317.1	5896.6	5846.3	5768.6	5869.2	5800.6	5892.0
45°	9219.7	9201.4	9452.8	8515.8	7203.9	6550.2	6481.7	6271.4	6399.4	6394.8	6595.9
47.5°	9919.0	9887.1	9992.2	9448.2	8214.1	7350.2	7245.0	6934.2	7126.2	7258.7	7592.4
50°	10581.8	10591.0	10627.6	10184.2	9311.1	8323.8	8191.2	7775.3	8049.5	8328.3	8799.2
52.5°	11445.8	11381.8	11336.1	11043.5	10540.7	9338.5	9251.7	8776.3	9160.3	9489.4	10115.6
55°	12200.0	12158.8	12131.4	12117.7	11569.2	10458.4	10367.0	9873.3	10426.4	10659.5	11582.9
57.5°	13004.5	12981.6	13127.9	13361.0	13141.6	11596.6	11500.6	11025.2	11642.3	11806.9	13173.6
60°	13594.1	13607.8	14010.1	14604.3	14453.5	12830.8	12716.5	12296.0	12826.2	12972.5	14764.3
62.5°	13598.7	13735.8	14668.3	15733.3	15907.0	14252.3	14119.8	13662.7	14042.1	14042.1	16190.4
65°	12300.5	12455.9	14549.5	16012.2	17378.9	15943.6	15815.6	15098.0	15239.7	15047.7	17529.7
67.5°	11006.9	11189.8	13159.9	16035.0	18411.9	17753.7	17602.9	16533.3	16291.0	15806.5	18466.8
70°	10147.6	10275.6	11921.1	15737.9	19033.6	19646.1	19531.8	17895.4	17118.4	16441.9	18270.2
72.5°	8543.2	8497.5	10069.9	14325.5	19381.0	21794.5	21698.5	19376.4	17836.0	16140.2	15582.5
75°	4959.5	5014.4	6248.5	10495.0	17470.3	22914.4	22905.2	20642.6	17520.6	14256.9	10737.3
77.5°	1430.7	1471.9	2052.4	4612.1	11048.1	19545.6	20171.8	18878.2	14810.0	10161.3	5567.5
80°	626.2	658.2	891.3	1535.9	4758.4	12766.8	13315.3	12766.8	8931.7	4662.4	2184.9
82.5°	370.3	393.1	580.5	950.8	2280.9	6074.8	6815.3	5951.4	3853.3	1979.2	905.1
85°	210.3	219.4	333.7	603.4	1435.3	2125.5	2386.1	2235.2	1878.7	1124.5	475.4
87.5°	96.0	100.6	164.6	283.4	804.5	717.6	745.1	987.3	1087.9	685.6	237.7
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°	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8
2.5°	3588.2	3574.5	3547.1	3537.9	3524.2	3528.8	3533.4	3533.4	3537.9	3524.2	3524.2
5°	3551.7	3528.8	3501.4	3501.4	3501.4	3537.9	3569.9	3588.2	3597.4	3597.4	3588.2
7.5°	3537.9	3510.5	3478.5	3487.7	3496.8	3542.5	3601.9	3661.4	3679.6	3679.6	3670.5
10°	3565.4	3537.9	3515.1	3528.8	3551.7	3588.2	3633.9	3688.8	3734.5	3739.1	3734.5
12.5°	3629.4	3597.4	3574.5	3601.9	3629.4	3652.2	3675.1	3697.9	3757.4	3766.5	3766.5
15°	3734.5	3702.5	3675.1	3697.9	3707.1	3707.1	3707.1	3707.1	3766.5	3775.6	3775.6
17.5°	3839.6	3812.2	3784.8	3789.4	3761.9	3725.4	3711.6	3707.1	3739.1	3766.5	3771.1
20°	3940.2	3917.3	3889.9	3844.2	3775.6	3707.1	3684.2	3684.2	3702.5	3743.6	3743.6
22.5°	4049.9	4022.5	3976.8	3871.6	3757.4	3661.4	3638.5	3652.2	3675.1	3729.9	3725.4
25°	4173.3	4136.7	4059.0	3862.5	3697.9	3583.7	3588.2	3629.4	3670.5	3729.9	3729.9
27.5°	4310.4	4260.2	4104.7	3789.4	3565.4	3455.7	3496.8	3592.8	3652.2	3716.2	3725.4
30°	4461.3	4415.6	4141.3	3661.4	3350.5	3250.0	3350.5	3505.9	3597.4	3656.8	3670.5
32.5°	4644.1	4607.6	4173.3	3496.8	3071.7	2984.9	3131.1	3323.1	3469.4	3537.9	3551.7
35°	4872.7	4836.1	4214.5	3309.4	2811.2	2719.7	2852.3	3048.9	3240.8	3327.7	3355.1
37.5°	5169.8	5114.9	4251.0	3108.3	2591.8	2486.6	2550.6	2728.9	2902.6	3021.4	3053.4
40°	5549.2	5462.3	4283.0	2879.7	2399.8	2280.9	2303.8	2390.6	2491.2	2596.3	2637.5
42.5°	6084.0	5910.3	4287.6	2637.5	2203.2	2093.5	2084.4	2111.8	2111.8	2111.8	2125.5
45°	6829.1	6499.9	4296.7	2408.9	2002.1	1887.8	1860.4	1851.3	1782.7	1650.1	1641.0
47.5°	7770.7	7272.4	4337.9	2216.9	1791.8	1691.3	1654.7	1618.1	1490.1	1353.0	1325.6
50°	8977.4	8168.4	4420.1	2034.1	1613.6	1545.0	1499.3	1412.4	1270.7	1165.6	1138.2
52.5°	10367.0	9233.4	4497.9	1842.1	1481.0	1435.3	1380.4	1275.3	1124.5	1060.5	1051.3
55°	11962.3	10421.9	4653.3	1673.0	1366.7	1334.7	1284.4	1183.9	1069.6	1023.9	1019.3
57.5°	13594.1	11752.0	4872.7	1522.1	1257.0	1238.7	1238.7	1151.9	1078.8	1060.5	1060.5
60°	15166.5	12894.8	4703.5	1380.4	1156.5	1165.6	1252.5	1229.6	1174.7	1197.6	1211.3
62.5°	16387.0	13566.7	3816.8	1266.2	1083.3	1165.6	1389.6	1389.6	1325.6	1316.4	1316.4
65°	16908.1	13557.6	2683.2	1179.3	1055.9	1279.9	1549.6	1476.4	1307.3	1243.3	1229.6
67.5°	16775.5	12963.3	1851.3	1119.9	1046.8	1398.7	1622.7	1417.0	1225.0	1170.2	1129.0
70°	15609.9	11706.3	1426.1	1065.0	1033.0	1348.4	1599.8	1348.4	1161.0	1110.8	1074.2
72.5°	12593.1	9388.8	1183.9	1010.2	978.2	1247.9	1522.1	1284.4	1110.8	1055.9	1019.3
75°	8031.2	5905.7	1001.0	937.1	873.1	1119.9	1417.0	1220.5	1055.9	982.8	955.3
77.5°	3862.5	2546.0	873.1	850.2	786.2	1037.6	1311.9	1138.2	982.8	923.3	905.1
80°	1563.3	1165.6	758.8	763.4	722.2	987.3	1238.7	1060.5	909.6	845.6	813.6
82.5°	813.6	676.5	639.9	658.2	658.2	941.6	1183.9	996.5	845.6	818.2	713.1
85°	438.8	420.5	493.7	530.2	571.4	850.2	1101.6	927.9	772.5	662.8	639.9
87.5°	214.8	274.3	278.8	320.0	397.7	681.1	927.9	777.1	644.5	534.8	525.7
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)