

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: P400347

Luminaire Tested: **ARCH-L-PA3-270-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400347
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-PA3-270-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29426 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

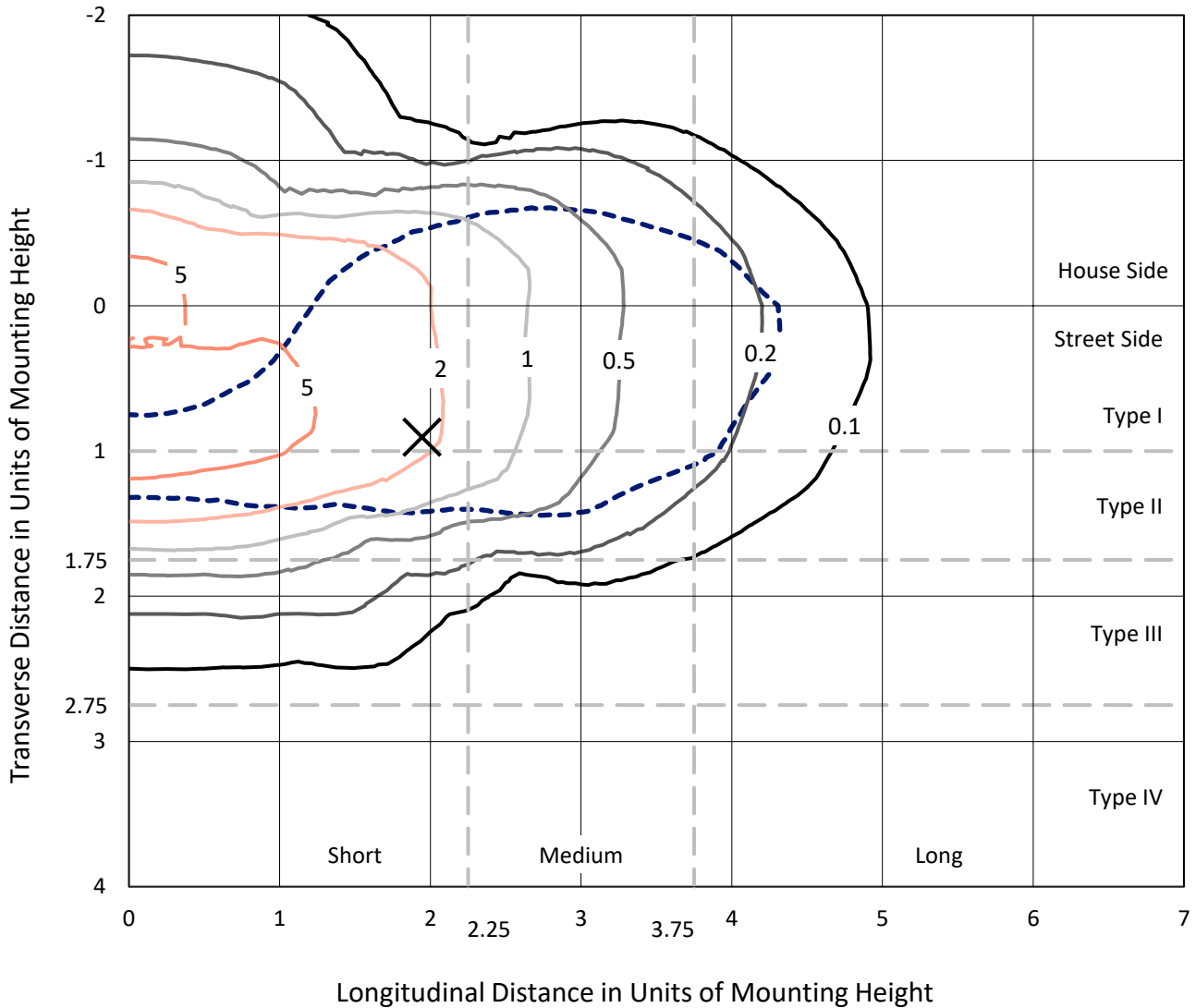
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

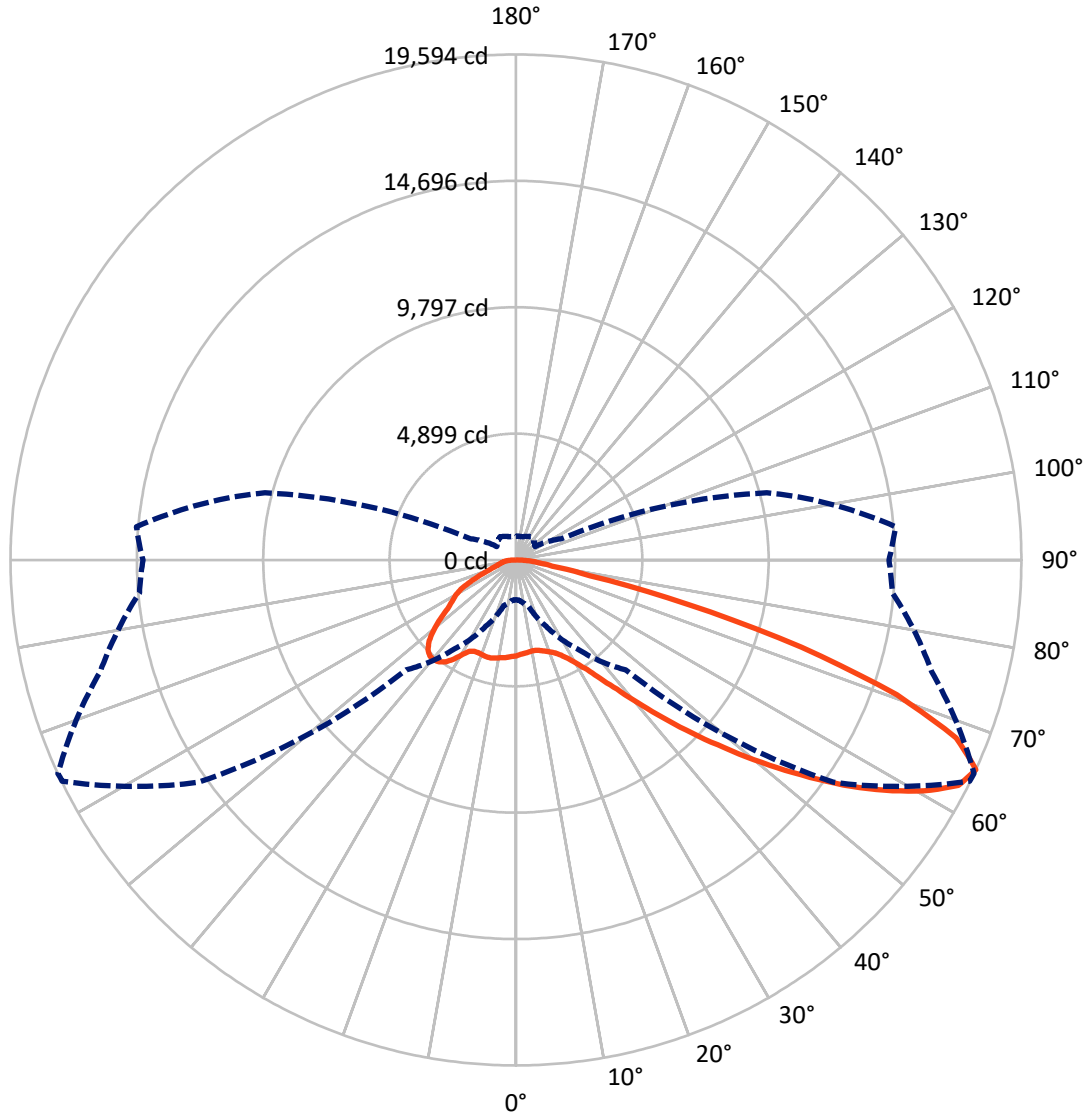
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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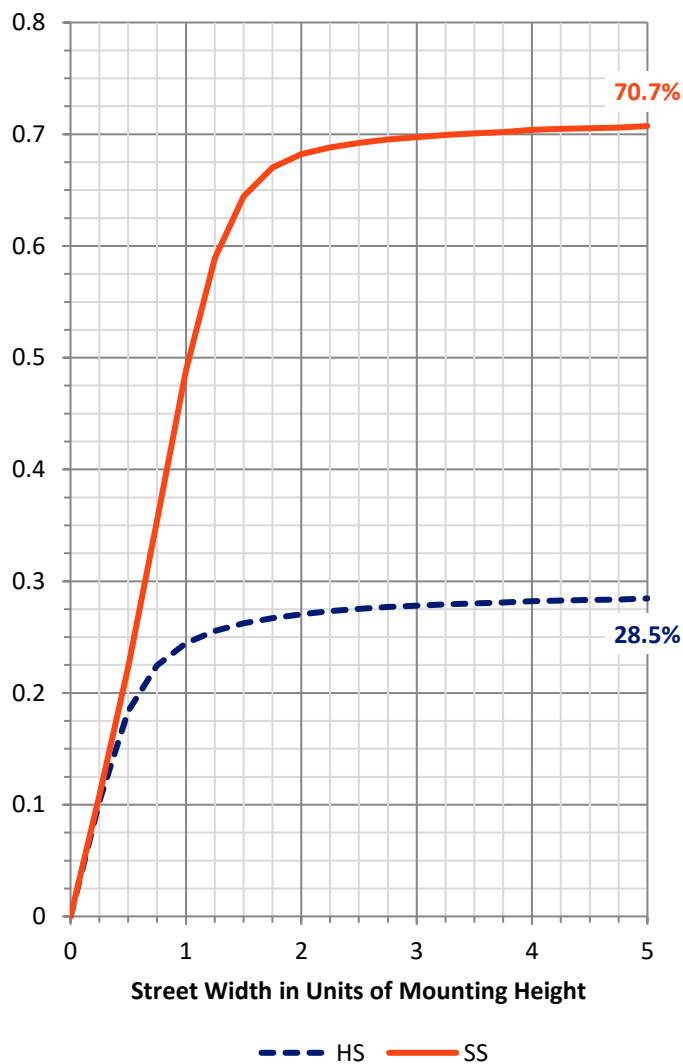
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8507.5	0.0	8507.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	20918.5	0.0	20918.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	29426.0	0.0	29426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	1.2
10°-20°	1057.6	3.6
20°-30°	1878.7	6.4
30°-40°	3178.2	10.8
40°-50°	5532.7	18.8
50°-60°	7150.0	24.3
60°-70°	6256.6	21.3
70°-80°	3403.2	11.6
80°-90°	614.9	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°	29426.0	100.0
0°-180°	29426.0	100.0

Coefficient of Utilization

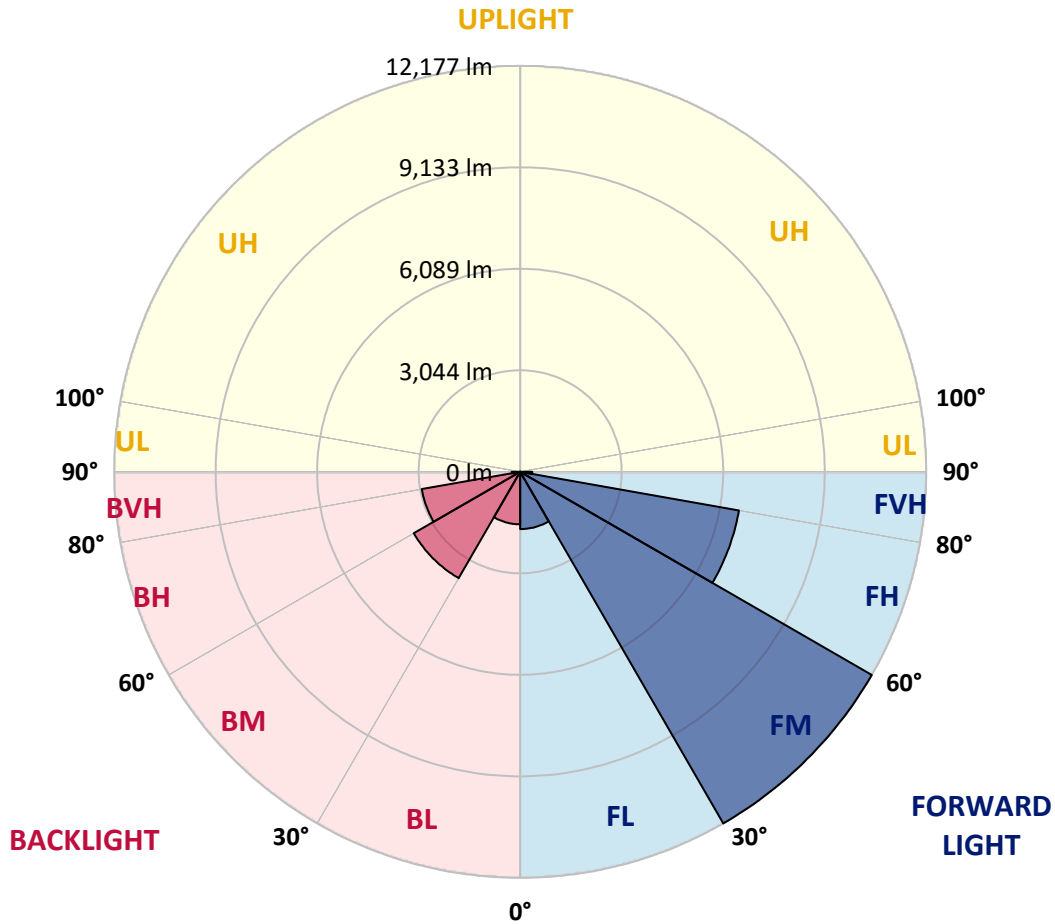


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.9	5.8			
FM (30°-60°)	12177.3	41.4			
FH (60°-80°)	6662.5	22.6			G3/7500
FVH (80°-90°)	361.8	1.2			G3/500
BL (0°-30°)	1573.6	5.3	B3/2500		
BM (30°-60°)	3683.6	12.5	B3/5000		
BH (60°-80°)	2997.3	10.2	B4/5000		G4/5000
BVH (80°-90°)	253.1	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3
2.5°	3652.4	3648.5	3640.8	3648.5	3652.4	3660.2	3656.3	3664.0	3660.2	3671.8	3691.1
5°	3559.5	3551.7	3547.8	3567.2	3578.8	3598.2	3605.9	3633.0	3629.2	3648.5	3679.5
7.5°	3454.9	3454.9	3451.0	3474.2	3489.7	3524.6	3551.7	3598.2	3602.1	3636.9	3671.8
10°	3373.5	3377.4	3373.5	3392.9	3416.2	3458.8	3505.2	3571.1	3575.0	3625.3	3660.2
12.5°	3342.6	3342.6	3342.6	3369.7	3400.7	3458.8	3513.0	3582.7	3590.4	3644.7	3675.7
15°	3385.2	3389.0	3381.3	3408.4	3443.3	3513.0	3563.3	3636.9	3644.7	3695.0	3714.4
17.5°	3536.2	3551.7	3532.3	3547.8	3540.1	3594.3	3640.8	3714.4	3718.3	3760.9	3768.6
20°	3834.5	3849.9	3819.0	3799.6	3729.9	3726.0	3745.4	3803.5	3803.5	3830.6	3811.2
22.5°	4295.4	4310.9	4256.6	4183.0	4016.5	3935.2	3892.6	3919.7	3915.8	3927.4	3877.1
25°	4907.3	4903.5	4837.6	4702.0	4434.8	4237.3	4132.7	4090.1	4090.1	4066.8	4004.9
27.5°	5666.5	5608.4	5492.2	5329.5	4957.7	4682.7	4458.0	4349.6	4330.2	4260.5	4144.3
30°	6476.0	6433.4	6266.8	6030.6	5600.6	5248.2	4876.3	4659.4	4647.8	4496.8	4322.5
32.5°	7428.8	7359.1	7173.1	6890.4	6375.3	5879.5	5414.7	5085.5	5066.1	4826.0	4585.9
35°	8652.7	8594.6	8234.4	7951.7	7289.3	6638.6	6088.6	5651.0	5635.5	5341.1	5035.1
37.5°	10120.6	9969.6	9621.0	9090.4	8393.2	7622.4	6925.3	6375.3	6355.9	6030.6	5643.2
40°	11429.8	11294.2	10984.4	10496.3	9748.8	8892.8	7947.8	7281.6	7262.2	6867.2	6379.1
42.5°	12398.1	12305.1	12103.7	11821.0	11286.5	10767.5	9253.0	8377.7	8342.8	7831.6	7223.5
45°	12959.7	12886.1	12769.9	12839.6	12831.9	12735.0	10810.1	9683.0	9570.6	8908.3	8164.7
47.5°	12824.1	12758.3	12804.8	13347.0	14094.5	14656.1	12622.7	11019.2	10868.2	10004.4	9167.8
50°	11844.2	11871.3	12115.3	13153.3	14830.4	16077.6	14632.9	12541.4	12340.0	11108.3	10120.6
52.5°	10058.7	10124.5	10717.1	12169.6	14749.1	16999.4	16449.4	14113.9	13846.6	12185.0	10988.2
55°	7990.4	8156.9	8923.8	10449.9	13687.8	17065.3	17820.5	15694.1	15399.8	13195.9	11743.5
57.5°	5910.5	6158.4	7045.3	8447.4	11654.4	16023.4	18506.1	17204.7	16848.4	14199.1	12541.4
60°	3749.2	3900.3	4922.8	6576.7	8919.9	13474.8	18417.0	18490.6	18180.7	15198.4	13374.1
62.5°	2393.6	2467.2	2982.4	4690.4	6235.8	9977.3	17444.8	19462.8	19253.6	16108.6	14164.2
65°	1537.7	1568.6	1832.0	2885.5	4245.0	6022.8	15024.1	19567.3	19594.4	16677.9	14652.3
67.5°	1251.0	1266.5	1363.4	1781.7	3001.7	3327.1	10465.3	18080.0	18409.3	16530.8	14485.7
70°	1138.7	1158.1	1258.8	1421.5	2323.9	2296.8	5066.1	15128.7	15667.0	15682.5	13745.9
72.5°	960.6	987.7	1123.2	1344.0	1797.2	1812.7	2145.7	10775.2	11569.2	14017.1	12634.3
75°	801.7	817.2	933.4	1185.2	1522.2	1448.6	1506.7	5712.9	6859.4	11240.0	11453.0
77.5°	650.7	666.2	751.4	945.1	1351.7	1127.1	1185.2	2366.5	2924.3	7630.2	9361.5
80°	464.8	480.3	577.1	735.9	1022.5	1014.8	879.2	1305.3	1417.6	4124.9	6080.9
82.5°	333.1	344.7	437.7	526.8	708.8	1018.6	662.3	887.0	929.6	1828.1	2451.7
85°	224.6	224.6	302.1	348.6	457.0	642.9	534.5	600.3	627.5	867.6	662.3
87.5°	96.8	96.8	162.7	178.2	240.1	298.2	398.9	302.1	309.9	468.7	271.1
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°	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3	3718.3
2.5°	3702.8	3706.6	3714.4	3737.6	3753.1	3776.4	3788.0	3803.5	3803.5	3795.7	3799.6
5°	3695.0	3706.6	3733.8	3776.4	3803.5	3846.1	3877.1	3900.3	3908.0	3900.3	3904.2
7.5°	3691.1	3710.5	3757.0	3819.0	3857.7	3911.9	3954.5	3981.6	4001.0	3993.3	3997.1
10°	3679.5	3710.5	3768.6	3846.1	3904.2	3958.4	3997.1	4008.7	4020.4	4012.6	4008.7
12.5°	3695.0	3729.9	3791.8	3884.8	3950.6	3993.3	4004.9	3985.5	3958.4	3942.9	3939.0
15°	3726.0	3760.9	3822.8	3919.7	3977.8	3993.3	3966.1	3904.2	3842.2	3807.3	3803.5
17.5°	3768.6	3791.8	3842.2	3927.4	3973.9	3954.5	3900.3	3826.7	3780.2	3753.1	3757.0
20°	3795.7	3795.7	3834.5	3900.3	3939.0	3923.5	3857.7	3776.4	3702.8	3667.9	3656.3
22.5°	3834.5	3815.1	3819.0	3877.1	3931.3	3908.0	3768.6	3625.3	3520.7	3482.0	3478.1
25°	3939.0	3884.8	3849.9	3884.8	4012.6	3822.8	3544.0	3377.4	3280.6	3245.7	3249.6
27.5°	4066.8	3993.3	3919.7	3977.8	4078.5	3629.2	3257.3	3067.6	3009.5	2982.4	2994.0
30°	4194.7	4097.8	4001.0	4210.2	4032.0	3327.1	2889.4	2703.5	2653.1	2633.8	2649.3
32.5°	4430.9	4272.1	4155.9	4520.0	3888.7	2982.4	2490.5	2320.0	2273.6	2250.3	2242.6
35°	4826.0	4624.6	4508.4	4791.1	3687.3	2598.9	2126.4	2006.3	1956.0	1905.6	1897.9
37.5°	5395.3	5151.3	5046.8	4946.1	3404.5	2219.3	1847.5	1766.2	1692.6	1615.1	1611.2
40°	6077.0	5759.4	5682.0	5015.8	3013.3	1863.0	1653.9	1576.4	1483.4	1409.8	1413.7
42.5°	6863.3	6456.6	6290.1	4996.4	2529.2	1673.2	1514.4	1429.2	1347.9	1282.0	1278.2
45°	7703.8	7242.9	6859.4	4860.8	2048.9	1541.5	1429.2	1328.5	1247.2	1173.6	1165.8
47.5°	8633.3	8118.2	7386.2	4597.5	1692.6	1448.6	1378.9	1235.5	1162.0	1115.5	1115.5
50°	9570.6	8954.8	7870.3	4198.5	1483.4	1378.9	1305.3	1185.2	1127.1	1088.4	1088.4
52.5°	10372.4	9826.3	8269.3	3722.1	1351.7	1320.8	1254.9	1162.0	1100.0	1065.1	1061.3
55°	11150.9	10635.8	8625.6	3249.6	1243.3	1243.3	1243.3	1142.6	1072.9	1041.9	1038.0
57.5°	11925.5	11487.9	8997.4	2939.7	1146.5	1177.4	1220.1	1119.4	1049.6	1022.5	1018.6
60°	12800.9	12510.4	9427.3	2722.8	1061.3	1107.7	1189.1	1092.2	1010.9	987.7	983.8
62.5°	13730.4	13730.4	9818.5	2416.9	983.8	1049.6	1142.6	1057.4	976.0	956.7	952.8
65°	14458.6	14772.3	10070.3	1959.8	906.3	991.5	1088.4	1010.9	929.6	925.7	917.9
67.5°	14543.8	15035.7	9911.5	1479.6	836.6	929.6	1034.1	960.6	883.1	883.1	871.5
70°	13931.9	14431.5	9415.7	1107.7	786.3	867.6	964.4	898.6	825.0	832.7	813.4
72.5°	12909.3	13033.3	8184.0	875.3	728.2	801.7	879.2	828.9	763.0	763.0	735.9
75°	11561.5	10872.0	5945.3	732.0	658.4	724.3	794.0	751.4	693.3	673.9	658.4
77.5°	9202.7	7878.1	3454.9	631.3	600.3	650.7	697.2	666.2	615.8	573.2	573.2
80°	5608.4	4616.8	1526.0	546.1	530.6	569.4	600.3	565.5	522.9	480.3	468.7
82.5°	2134.1	1781.7	739.8	468.7	464.8	488.0	511.3	476.4	445.4	426.1	368.0
85°	584.9	538.4	507.4	391.2	383.4	379.6	406.7	391.2	348.6	286.6	255.6
87.5°	220.8	251.8	275.0	240.1	255.6	236.3	271.1	247.9	220.8	143.3	127.8
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)