

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: P400014

Luminaire Tested: **ARCH-L-PA3-220-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400014
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-PA3-220-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30858 lumens
Efficiency: N/A
Efficacy: 139.0 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

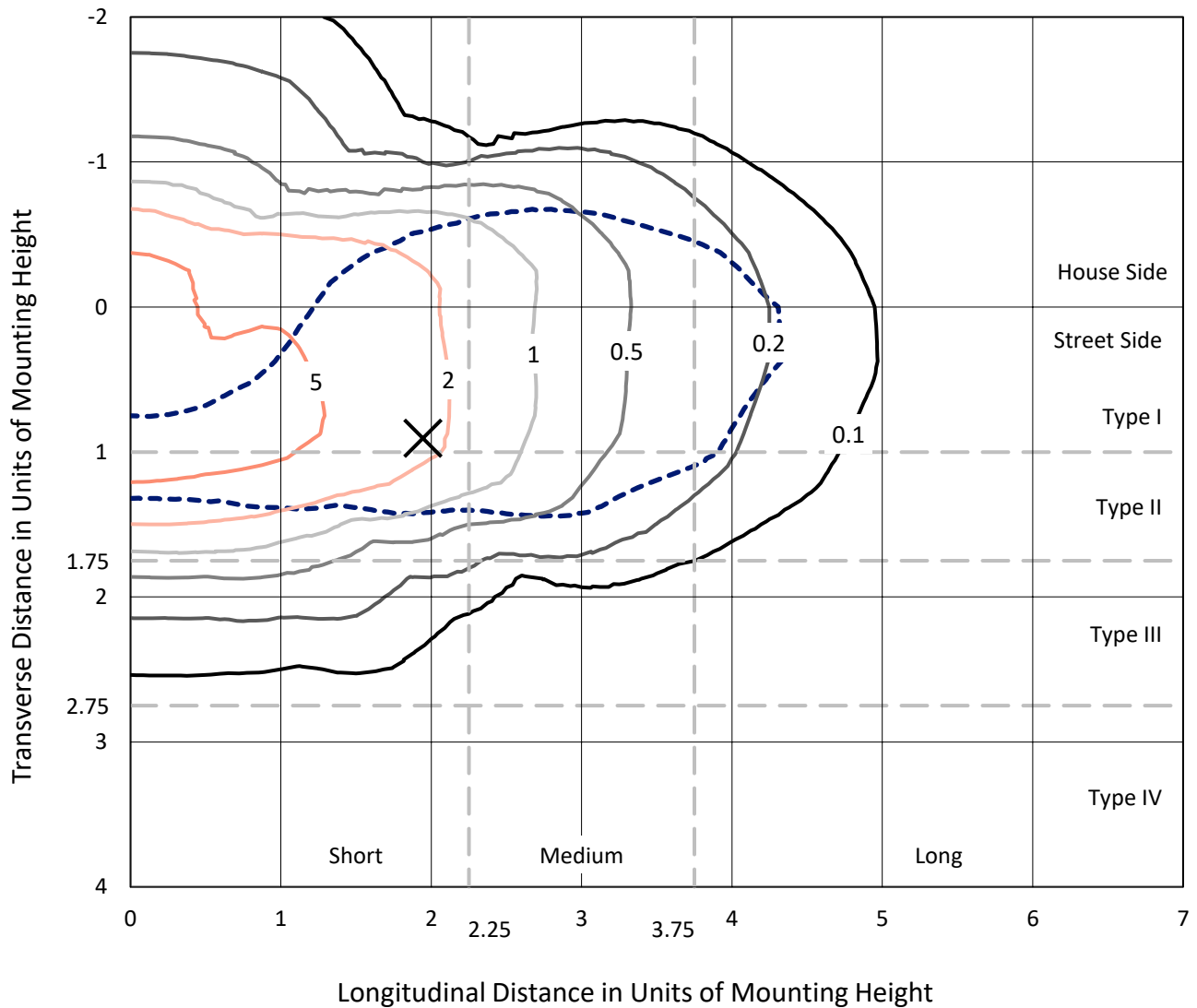
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

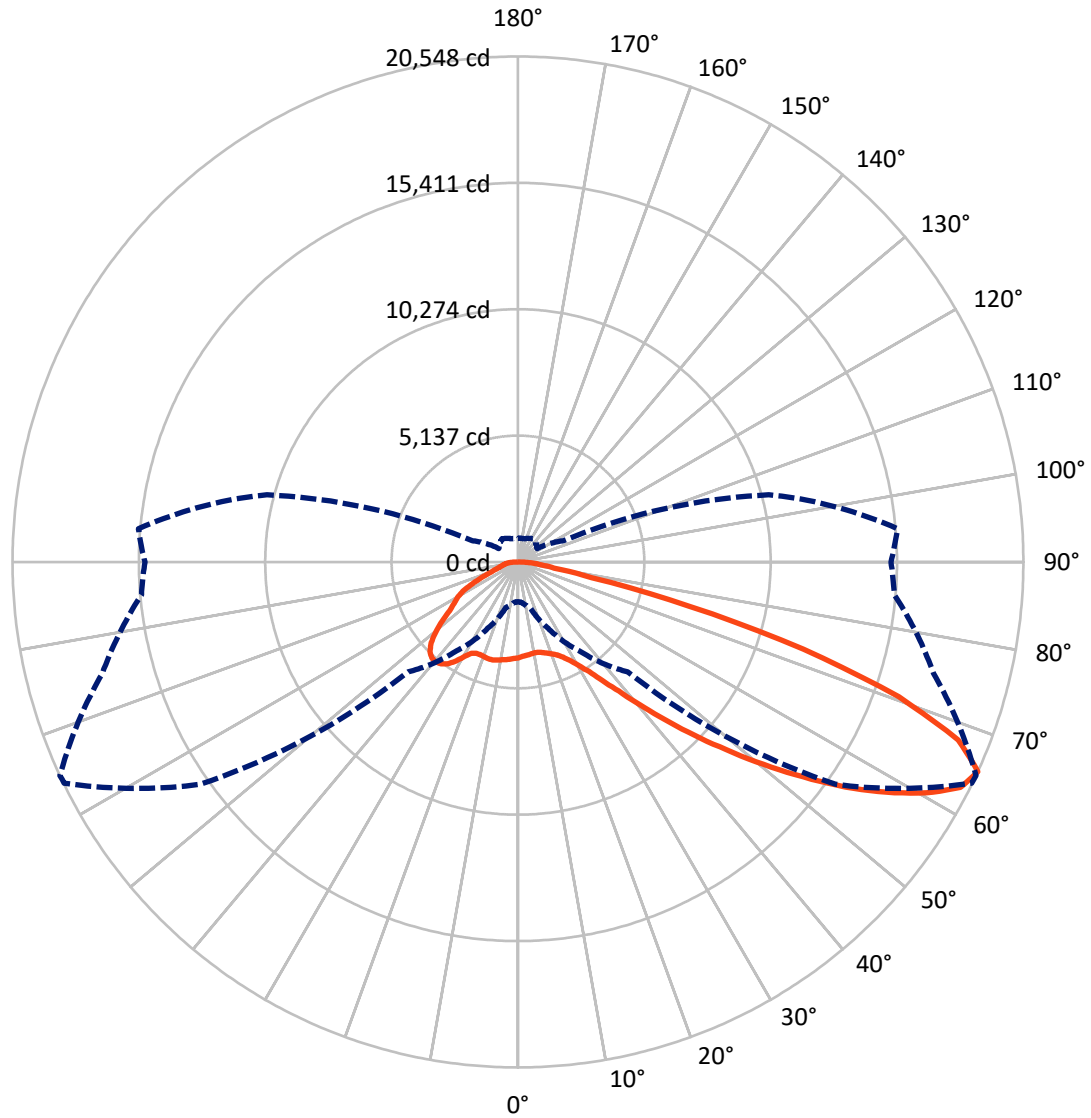
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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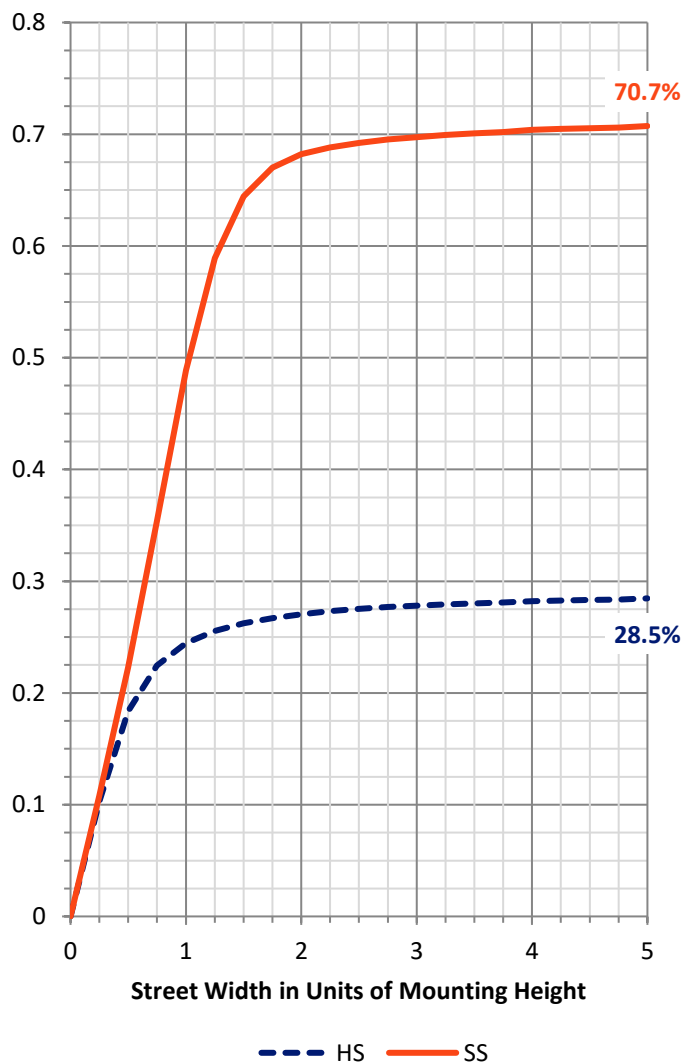
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8921.5	0.0	8921.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21936.5	0.0	21936.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	30858.0	0.0	30858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.5	1.2
10°-20°	1109.1	3.6
20°-30°	1970.1	6.4
30°-40°	3332.9	10.8
40°-50°	5801.9	18.8
50°-60°	7497.9	24.3
60°-70°	6561.1	21.3
70°-80°	3568.8	11.6
80°-90°	644.8	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°	30858.0	100.0
0°-180°	30858.0	100.0

Coefficient of Utilization



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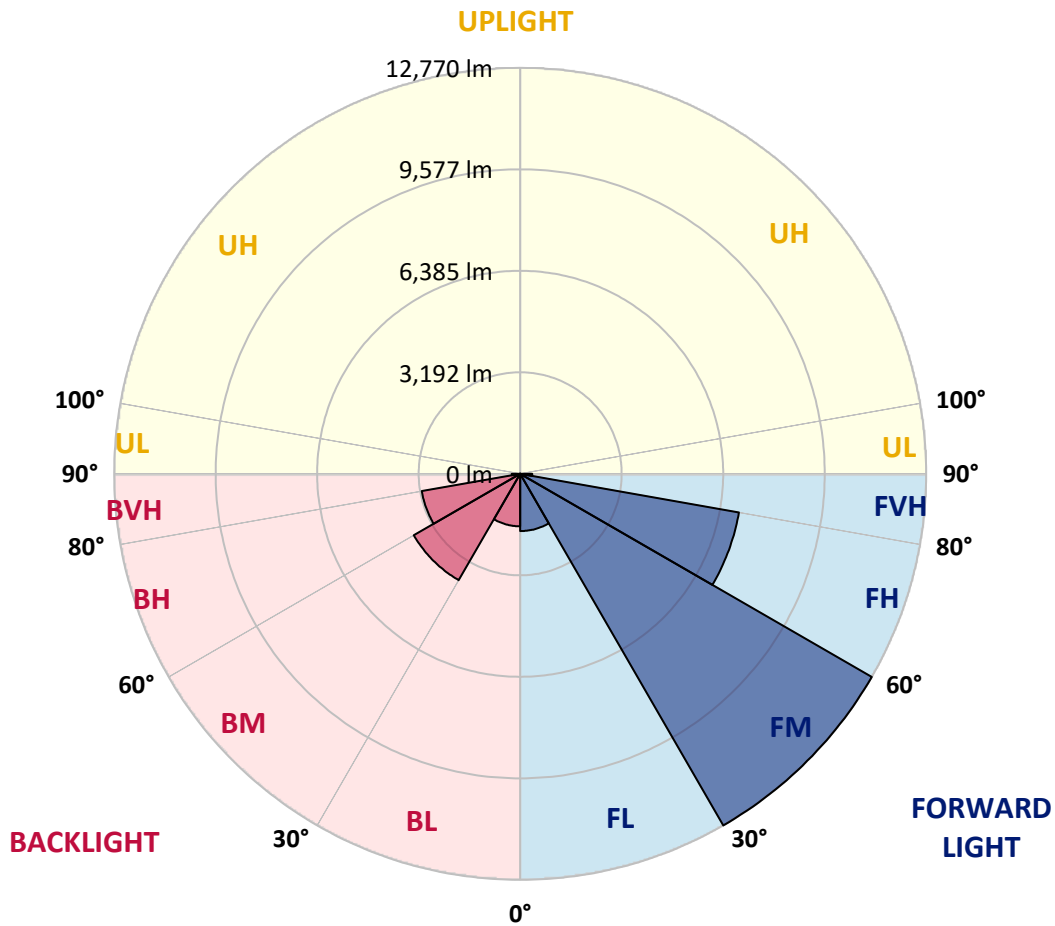
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.5	5.8			
FM (30°-60°)	12769.9	41.4			
FH (60°-80°)	6986.7	22.6			G3/7500
FVH (80°-90°)	379.4	1.2			G3/500
BL (0°-30°)	1650.2	5.3	B3/2500		
BM (30°-60°)	3862.8	12.5	B3/5000		
BH (60°-80°)	3143.2	10.2	B4/5000		G4/5000
BVH (80°-90°)	265.4	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°	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2
2.5°	3830.2	3826.1	3818.0	3826.1	3830.2	3838.3	3834.2	3842.3	3838.3	3850.5	3870.8
5°	3732.7	3724.6	3720.5	3740.8	3753.0	3773.3	3781.4	3809.8	3805.8	3826.1	3858.6
7.5°	3623.0	3623.0	3619.0	3643.3	3659.6	3696.1	3724.6	3773.3	3777.4	3813.9	3850.5
10°	3537.7	3541.8	3537.7	3558.0	3582.4	3627.1	3675.8	3744.9	3748.9	3801.7	3838.3
12.5°	3505.2	3505.2	3505.2	3533.7	3566.1	3627.1	3683.9	3757.0	3765.2	3822.0	3854.5
15°	3549.9	3554.0	3545.8	3574.3	3610.8	3683.9	3736.7	3813.9	3822.0	3874.8	3895.1
17.5°	3708.3	3724.6	3704.2	3720.5	3712.4	3769.2	3818.0	3895.1	3899.2	3943.9	3952.0
20°	4021.1	4037.3	4004.8	3984.5	3911.4	3907.3	3927.6	3988.6	3988.6	4017.0	3996.7
22.5°	4504.4	4520.6	4463.8	4386.6	4212.0	4126.7	4082.0	4110.4	4106.4	4118.5	4065.7
25°	5146.1	5142.1	5073.0	4930.9	4650.6	4443.5	4333.8	4289.1	4289.1	4264.8	4199.8
27.5°	5942.2	5881.3	5759.5	5588.9	5198.9	4910.6	4675.0	4561.3	4540.9	4467.8	4346.0
30°	6791.1	6746.4	6571.8	6324.0	5873.2	5503.6	5113.6	4886.2	4874.0	4715.6	4532.8
32.5°	7790.3	7717.2	7522.2	7225.7	6685.5	6165.6	5678.2	5333.0	5312.7	5060.8	4809.0
35°	9073.8	9012.9	8635.1	8338.6	7644.1	6961.7	6384.9	5926.0	5909.7	5601.0	5280.2
37.5°	10613.2	10454.7	10089.2	9532.7	8801.6	7993.4	7262.3	6685.5	6665.2	6324.0	5917.9
40°	11986.0	11843.8	11518.9	11007.1	10223.2	9325.6	8334.6	7635.9	7615.6	7201.3	6689.6
42.5°	13001.4	12903.9	12692.7	12396.2	11835.7	11291.4	9703.3	8785.4	8748.8	8212.7	7575.0
45°	13590.4	13513.2	13391.3	13464.4	13456.3	13354.8	11336.1	10154.2	10036.4	9341.8	8562.0
47.5°	13448.2	13379.1	13427.9	13996.5	14780.4	15369.4	13237.0	11555.5	11397.1	10491.3	9614.0
50°	12420.6	12449.0	12704.9	13793.4	15552.1	16860.0	15345.0	13151.7	12940.5	11648.9	10613.2
52.5°	10548.2	10617.2	11238.6	12761.8	15466.8	17826.7	17249.9	14800.7	14520.5	12778.0	11523.0
55°	8379.2	8553.9	9358.1	10958.4	14354.0	17895.7	18687.8	16457.9	16149.2	13838.1	12315.0
57.5°	6198.1	6458.1	7388.2	8858.5	12221.6	16803.1	19406.7	18041.9	17668.3	14890.1	13151.7
60°	3931.7	4090.1	5162.4	6896.7	9354.0	14130.6	19313.3	19390.4	19065.5	15938.0	14025.0
62.5°	2510.1	2587.3	3127.5	4918.7	6539.3	10462.9	18293.8	20409.9	20190.6	16892.5	14853.5
65°	1612.5	1645.0	1921.2	3025.9	4451.6	6315.9	15755.2	20519.6	20548.0	17489.6	15365.3
67.5°	1311.9	1328.2	1429.7	1868.4	3147.8	3489.0	10974.6	18959.9	19305.1	17335.2	15190.7
70°	1194.1	1214.4	1320.0	1490.6	2437.0	2408.6	5312.7	15864.9	16429.5	16445.7	14414.9
72.5°	1007.3	1035.7	1177.9	1409.4	1884.6	1900.9	2250.2	11299.6	12132.2	14699.2	13249.2
75°	840.8	857.0	978.9	1242.9	1596.2	1519.1	1580.0	5991.0	7193.2	11787.0	12010.4
77.5°	682.4	698.6	788.0	991.0	1417.5	1181.9	1242.9	2481.7	3066.6	8001.5	9817.1
80°	487.4	503.6	605.2	771.7	1072.3	1064.2	922.0	1368.8	1486.6	4325.7	6376.8
82.5°	349.3	361.5	459.0	552.4	743.3	1068.2	694.5	930.1	974.8	1917.1	2571.0
85°	235.6	235.6	316.8	365.6	479.3	674.2	560.5	629.6	658.0	909.8	694.5
87.5°	101.5	101.5	170.6	186.8	251.8	312.7	418.4	316.8	324.9	491.5	284.3
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°	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2	3899.2
2.5°	3883.0	3887.0	3895.1	3919.5	3935.8	3960.1	3972.3	3988.6	3988.6	3980.4	3984.5
5°	3874.8	3887.0	3915.5	3960.1	3988.6	4033.2	4065.7	4090.1	4098.2	4090.1	4094.2
7.5°	3870.8	3891.1	3939.8	4004.8	4045.4	4102.3	4147.0	4175.4	4195.7	4187.6	4191.6
10°	3858.6	3891.1	3952.0	4033.2	4094.2	4151.0	4191.6	4203.8	4216.0	4207.9	4203.8
12.5°	3874.8	3911.4	3976.4	4073.9	4142.9	4187.6	4199.8	4179.5	4151.0	4134.8	4130.7
15°	3907.3	3943.9	4008.9	4110.4	4171.3	4187.6	4159.2	4094.2	4029.2	3992.6	3988.6
17.5°	3952.0	3976.4	4029.2	4118.5	4167.3	4147.0	4090.1	4012.9	3964.2	3935.8	3939.8
20°	3980.4	3980.4	4021.1	4090.1	4130.7	4114.5	4045.4	3960.1	3883.0	3846.4	3834.2
22.5°	4021.1	4000.7	4004.8	4065.7	4122.6	4098.2	3952.0	3801.7	3692.1	3651.4	3647.4
25°	4130.7	4073.9	4037.3	4073.9	4207.9	4008.9	3716.4	3541.8	3440.2	3403.7	3407.7
27.5°	4264.8	4187.6	4110.4	4171.3	4276.9	3805.8	3415.9	3216.8	3155.9	3127.5	3139.7
30°	4398.8	4297.2	4195.7	4415.0	4228.2	3489.0	3030.0	2835.0	2782.2	2761.9	2778.2
32.5°	4646.6	4480.0	4358.2	4740.0	4077.9	3127.5	2611.7	2432.9	2384.2	2359.8	2351.7
35°	5060.8	4849.6	4727.8	5024.3	3866.7	2725.4	2229.9	2103.9	2051.1	1998.3	1990.2
37.5°	5657.9	5402.0	5292.4	5186.8	3570.2	2327.3	1937.4	1852.1	1775.0	1693.7	1689.7
40°	6372.8	6039.7	5958.5	5259.9	3160.0	1953.7	1734.3	1653.1	1555.6	1478.4	1482.5
42.5°	7197.3	6770.8	6596.2	5239.6	2652.3	1754.6	1588.1	1498.8	1413.5	1344.4	1340.4
45°	8078.7	7595.3	7193.2	5097.4	2148.6	1616.5	1498.8	1393.2	1307.9	1230.7	1222.6
47.5°	9053.5	8513.3	7745.6	4821.2	1775.0	1519.1	1446.0	1295.7	1218.5	1169.8	1169.8
50°	10036.4	9390.6	8253.3	4402.9	1555.6	1446.0	1368.8	1242.9	1181.9	1141.3	1141.3
52.5°	10877.2	10304.5	8671.7	3903.3	1417.5	1385.0	1316.0	1218.5	1153.5	1117.0	1112.9
55°	11693.6	11153.4	9045.3	3407.7	1303.8	1303.8	1303.8	1198.2	1125.1	1092.6	1088.5
57.5°	12505.9	12046.9	9435.3	3082.8	1202.3	1234.7	1279.4	1173.8	1100.7	1072.3	1068.2
60°	13423.8	13119.2	9886.1	2855.4	1112.9	1161.6	1246.9	1145.4	1060.1	1035.7	1031.7
62.5°	14398.6	14398.6	10296.3	2534.5	1031.7	1100.7	1198.2	1108.8	1023.5	1003.2	999.2
65°	15162.2	15491.2	10560.3	2055.2	950.4	1039.8	1141.3	1060.1	974.8	970.7	962.6
67.5°	15251.6	15767.4	10393.8	1551.6	877.3	974.8	1084.5	1007.3	926.1	926.1	913.9
70°	14609.8	15133.8	9873.9	1161.6	824.5	909.8	1011.4	942.3	865.1	873.3	853.0
72.5°	13537.6	13667.5	8582.3	917.9	763.6	840.8	922.0	869.2	800.1	800.1	771.7
75°	12124.1	11401.1	6234.7	767.7	690.5	759.5	832.6	788.0	727.0	706.7	690.5
77.5°	9650.5	8261.4	3623.0	662.1	629.6	682.4	731.1	698.6	645.8	601.1	601.1
80°	5881.3	4841.5	1600.3	572.7	556.4	597.1	629.6	593.0	548.3	503.6	491.5
82.5°	2238.0	1868.4	775.8	491.5	487.4	511.8	536.1	499.6	467.1	446.8	385.9
85°	613.3	564.6	532.1	410.2	402.1	398.0	426.5	410.2	365.6	300.6	268.1
87.5°	231.5	264.0	288.4	251.8	268.1	247.8	284.3	259.9	231.5	150.3	134.0
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)