

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: P237081

Luminaire Tested: **ARCH-L-AF72-280-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-280-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29153.7 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

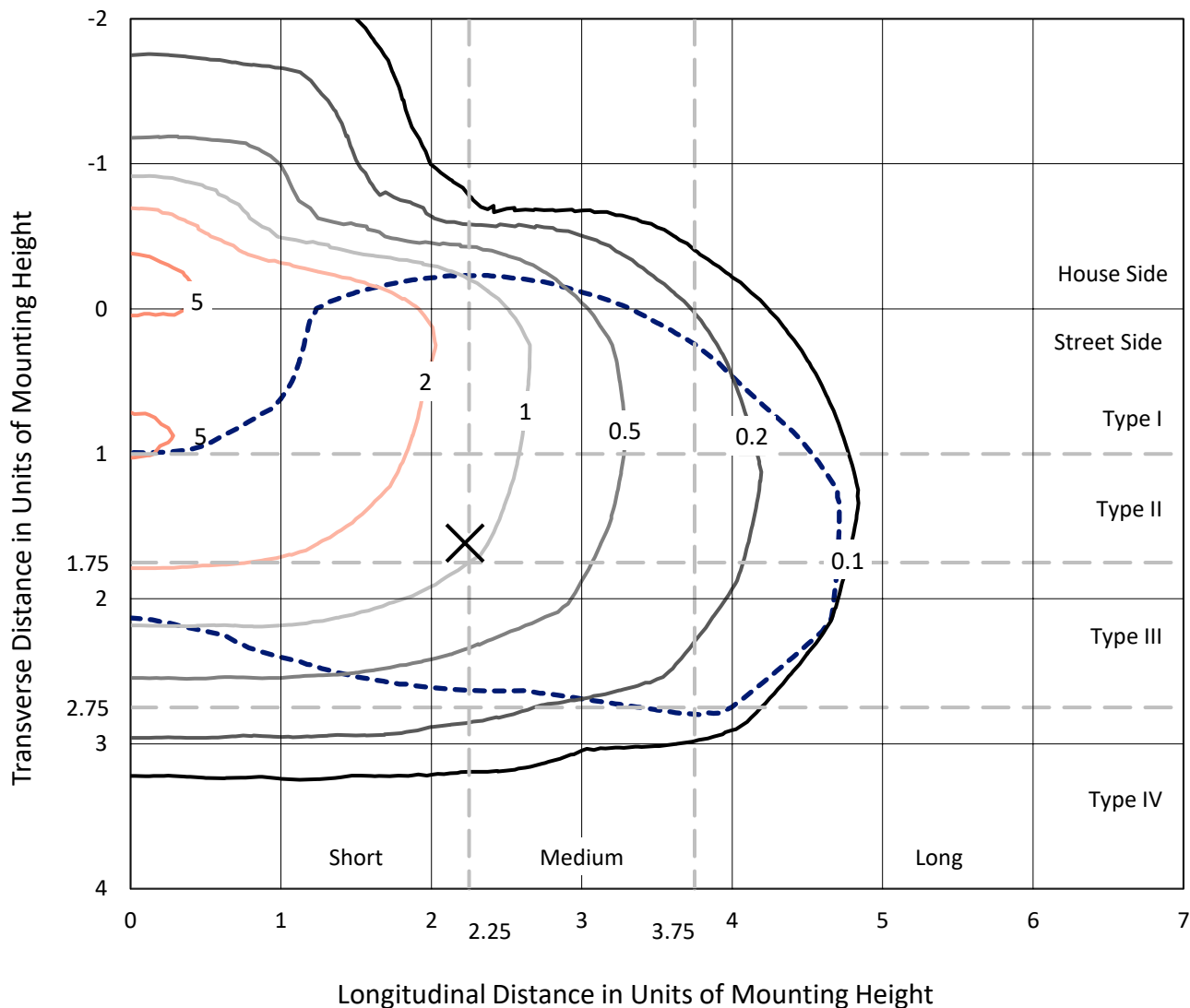
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

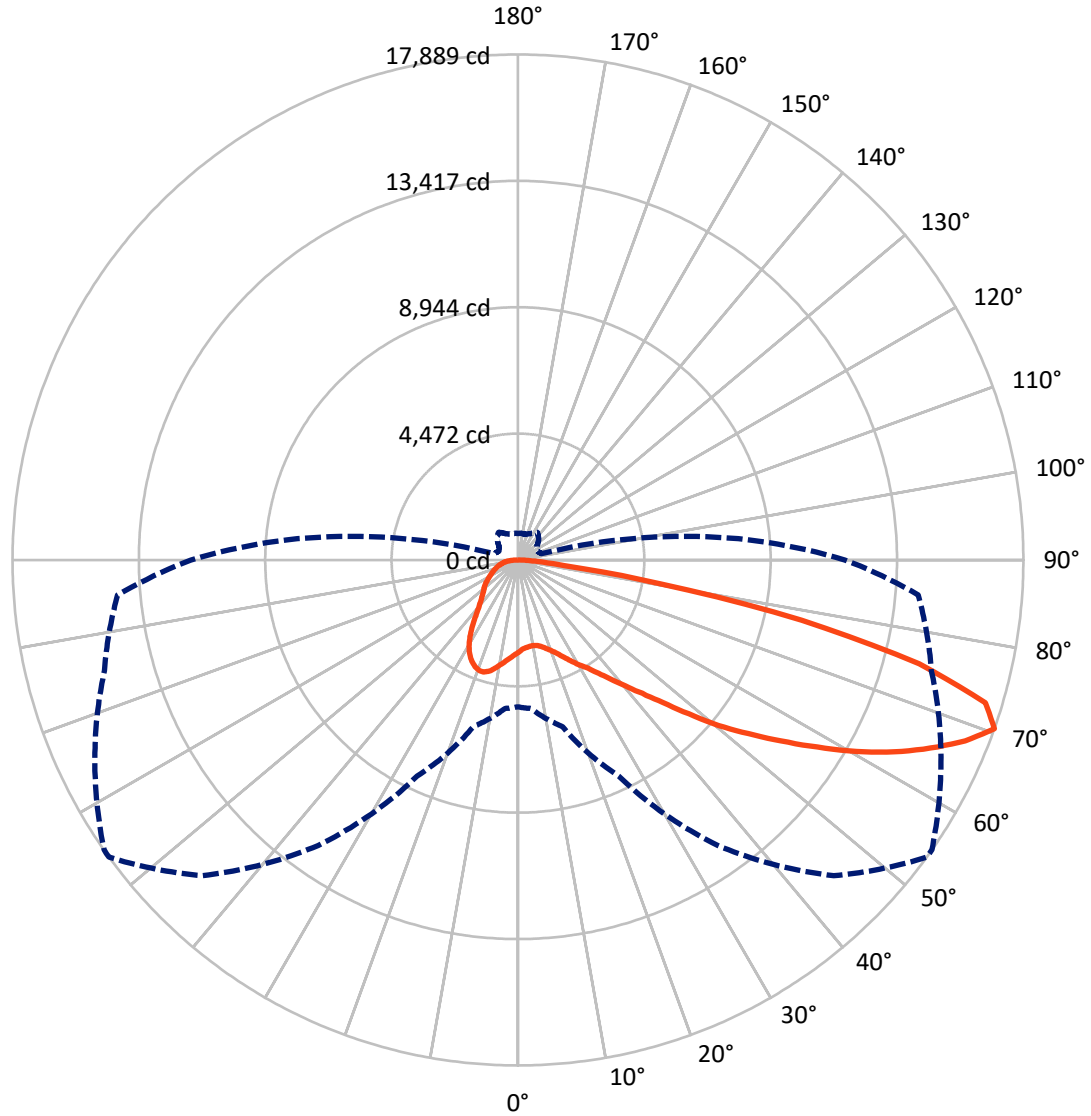
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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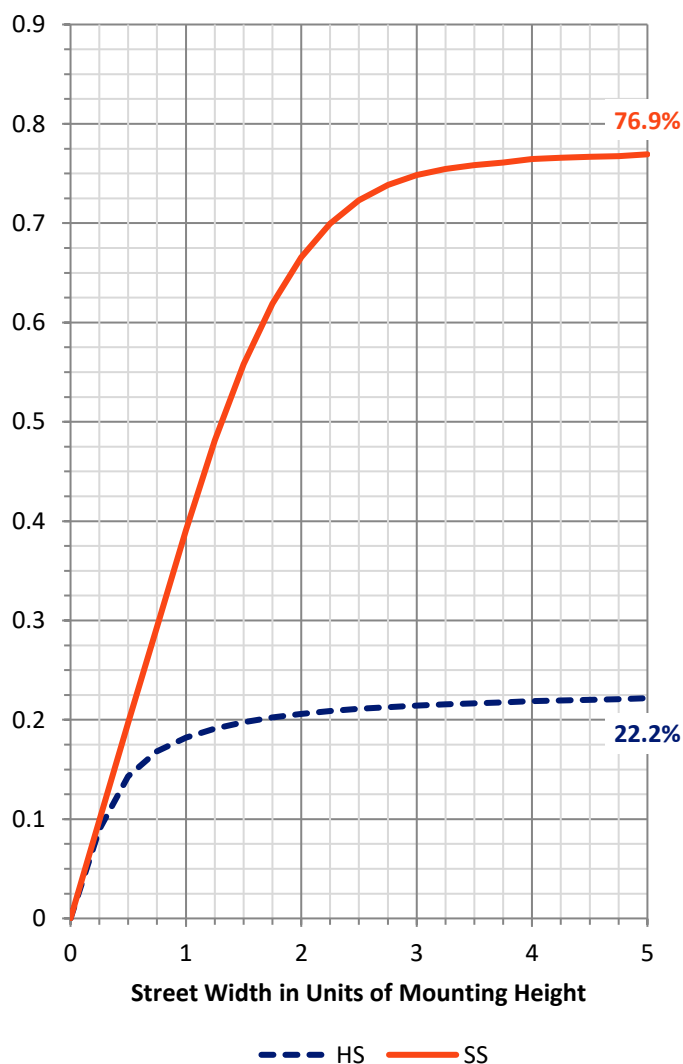
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6612.0	0.0	6612.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22541.7	0.0	22541.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	29153.7	0.0	29153.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.1	1.1
10°-20°	1022.8	3.5
20°-30°	1776.9	6.1
30°-40°	2596.8	8.9
40°-50°	4075.6	14.0
50°-60°	6267.3	21.5
60°-70°	7657.1	26.3
70°-80°	4747.4	16.3
80°-90°	689.7	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°	29153.7	100.0
0°-180°	29153.7	100.0

Coefficient of Utilization



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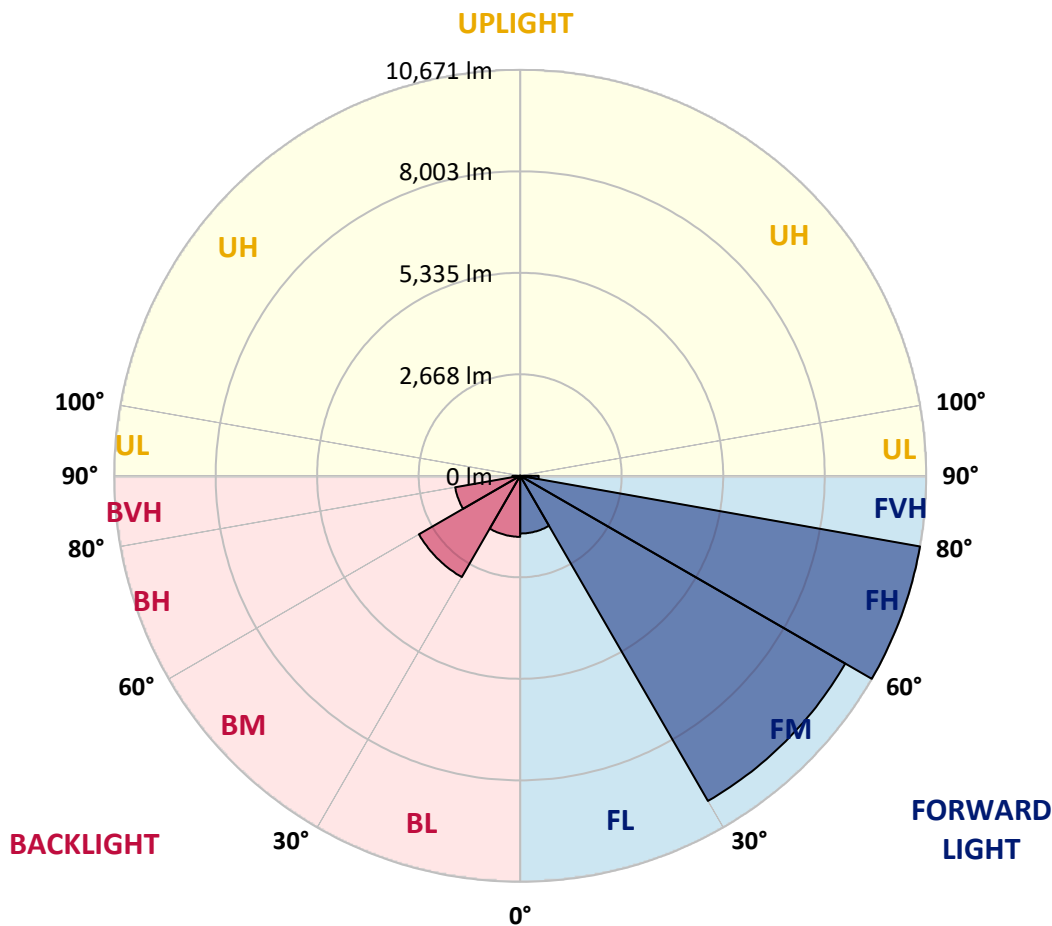
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1516.9	5.2			
FM	(30°-60°)	9867.2	33.8			
FH	(60°-80°)	10670.7	36.6			G4/12000
FVH	(80°-90°)	487.0	1.7			G3/500
BL	(0°-30°)	1603.0	5.5	B3/2500		
BM	(30°-60°)	3072.5	10.5	B3/5000		
BH	(60°-80°)	1733.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	202.7	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°	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7
2.5°	3133.5	3122.9	3122.9	3138.9	3144.3	3160.4	3160.4	3165.6	3181.6	3208.3	3240.3
5°	3037.5	3032.2	3037.5	3058.8	3069.5	3101.6	3112.2	3117.6	3149.6	3192.3	3240.3
7.5°	2941.4	2936.1	2946.7	2978.7	3010.8	3058.8	3085.6	3090.8	3138.9	3197.7	3261.7
10°	2909.3	2904.0	2920.1	2946.7	2978.7	3032.2	3074.9	3080.2	3149.6	3219.0	3309.8
12.5°	2952.0	2946.7	2962.8	2989.5	3021.4	3058.8	3106.9	3112.2	3202.9	3293.7	3389.9
15°	3058.8	3058.8	3064.1	3080.2	3112.2	3144.3	3187.0	3192.3	3288.3	3395.1	3491.3
17.5°	3224.3	3213.7	3213.7	3208.3	3229.7	3245.6	3299.1	3304.4	3405.8	3502.0	3598.0
20°	3427.3	3421.9	3400.4	3373.8	3368.5	3379.2	3432.5	3437.9	3539.4	3619.3	3710.1
22.5°	3672.7	3678.1	3630.0	3571.3	3544.6	3560.6	3608.8	3614.1	3688.8	3758.2	3838.3
25°	3998.4	3982.4	3913.0	3827.6	3774.2	3774.2	3822.2	3822.2	3891.6	3934.3	3987.8
27.5°	4308.0	4276.0	4212.0	4089.1	4003.7	4019.7	4067.8	4067.8	4131.8	4147.8	4174.6
30°	4644.3	4612.3	4532.2	4377.4	4265.3	4254.7	4313.3	4308.0	4393.5	4388.1	4366.8
32.5°	5055.4	5039.4	4905.8	4708.4	4559.0	4521.5	4574.9	4580.2	4633.6	4617.7	4548.3
35°	5631.9	5626.6	5503.8	5156.8	4959.3	4889.9	4921.9	4921.9	4959.3	4916.5	4799.1
37.5°	6357.9	6368.6	6261.8	5749.3	5471.8	5354.4	5359.6	5354.4	5364.9	5317.0	5194.1
40°	7084.0	7110.6	7105.2	6486.0	6133.7	5930.8	5856.1	5845.5	5872.1	5850.9	5733.4
42.5°	8039.6	8103.5	7954.1	7393.6	6998.5	6656.8	6454.1	6427.2	6486.0	6512.7	6400.6
45°	9032.5	9011.0	8776.1	8370.5	8012.7	7575.1	7190.7	7148.0	7190.7	7270.7	7153.3
47.5°	9550.3	9534.2	9475.5	9272.7	9219.3	8717.5	8135.6	8098.2	8018.1	8130.2	7991.4
50°	10404.3	10420.4	10180.1	10158.8	10383.0	10105.4	9203.2	9117.8	8973.7	9064.4	8947.0
52.5°	11023.6	10954.3	10804.7	10991.6	11690.8	11541.4	10206.9	10169.6	10036.0	10014.7	9961.2
55°	11274.5	11274.5	11301.2	11733.6	12731.9	12534.3	11295.9	11333.3	11151.8	11002.3	11071.7
57.5°	11349.2	11381.3	11610.8	12326.2	13954.4	13308.5	12497.0	12550.4	12288.8	11989.8	12208.7
60°	10980.9	11077.0	11626.9	12662.5	14642.9	14130.5	13762.2	13778.1	13399.1	12961.4	13345.8
62.5°	10036.0	10153.5	11135.7	12801.3	14530.8	14974.0	14957.9	14995.3	14477.5	13933.0	14413.4
65°	8877.7	8995.1	10041.4	12411.6	14445.5	15577.2	16052.3	16153.8	15486.4	14755.0	15080.7
67.5°	7174.7	7329.4	8322.4	11098.3	14029.1	16073.6	17077.2	17184.0	16265.9	15182.1	15021.9
70°	5199.5	5274.3	6107.0	8434.5	12331.4	15801.4	17888.7	17883.3	16522.0	15150.1	14221.3
72.5°	2503.6	2562.3	3283.0	5236.9	8818.9	13409.8	17301.4	17403.0	16169.8	14685.6	12390.2
75°	1030.4	1089.0	1329.2	2210.1	4628.3	8861.6	14664.3	14904.6	14685.6	13180.3	9694.3
77.5°	640.6	662.0	779.3	1142.5	2113.9	4137.2	10265.6	10591.1	11637.5	10559.2	6400.6
80°	480.4	496.5	582.0	800.8	1334.6	1526.8	5098.0	5509.2	7051.9	6059.0	2898.6
82.5°	400.3	405.7	464.5	582.0	907.5	875.5	1633.5	1820.4	3288.3	2311.5	998.3
85°	373.6	384.4	416.4	416.4	576.6	549.8	678.0	709.9	955.6	790.1	347.0
87.5°	192.2	181.5	368.3	325.6	299.0	266.9	288.2	309.6	357.8	379.0	154.8
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°	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7	3261.7
2.5°	3251.0	3267.1	3293.7	3320.4	3352.4	3389.9	3411.2	3437.9	3459.2	3448.6	3443.2
5°	3267.1	3293.7	3352.4	3405.8	3469.8	3544.6	3592.7	3646.1	3688.8	3699.4	3683.4
7.5°	3293.7	3341.8	3421.9	3517.9	3603.4	3699.4	3774.2	3848.8	3902.3	3913.0	3913.0
10°	3357.7	3411.2	3517.9	3646.1	3747.5	3848.8	3934.3	3993.1	4041.1	4062.5	4062.5
12.5°	3448.6	3512.5	3640.7	3795.5	3907.6	4003.7	4051.8	4078.4	4099.9	4121.2	4126.5
15°	3555.3	3624.6	3779.5	3945.1	4062.5	4110.5	4110.5	4105.2	4105.2	4115.8	4126.5
17.5°	3662.1	3736.7	3897.0	4073.0	4147.8	4121.2	4083.8	4067.8	4057.2	4051.8	4067.8
20°	3774.2	3848.8	4009.0	4174.6	4153.2	4041.1	3987.8	3950.4	3918.4	3902.3	3923.6
22.5°	3897.0	3966.3	4131.8	4243.9	4083.8	3913.0	3811.5	3752.8	3699.4	3667.4	3688.8
25°	4041.1	4110.5	4270.6	4265.3	3960.9	3720.9	3560.6	3464.6	3405.8	3373.8	3373.8
27.5°	4212.0	4270.6	4425.4	4212.0	3790.2	3464.6	3229.7	3138.9	3122.9	3096.2	3096.2
30°	4388.1	4436.2	4569.6	4089.1	3555.3	3128.2	2872.0	2829.3	2834.6	2808.0	2813.3
32.5°	4569.6	4617.7	4655.0	3907.6	3251.0	2749.2	2578.4	2546.4	2541.1	2519.6	2498.3
35°	4825.9	4895.3	4665.7	3662.1	2882.7	2434.3	2311.5	2279.4	2247.5	2172.7	2172.7
37.5°	5215.5	5290.3	4639.0	3357.7	2503.6	2188.7	2076.6	2033.9	1980.6	1905.8	1879.0
40°	5749.3	5749.3	4580.2	3016.1	2199.4	1991.1	1884.4	1831.0	1772.3	1697.6	1681.6
42.5°	6379.3	6229.9	4489.5	2669.2	1975.2	1857.7	1761.6	1703.0	1633.5	1548.1	1537.4
45°	7115.9	6710.2	4361.4	2359.6	1809.7	1777.6	1718.9	1617.5	1500.0	1409.3	1393.3
47.5°	7831.2	7142.6	4238.6	2140.6	1670.9	1745.6	1697.6	1526.8	1366.7	1238.5	1222.5
50°	8616.0	7527.0	4094.5	1959.1	1564.1	1724.2	1670.9	1393.3	1217.1	1126.4	1115.7
52.5°	9400.7	7916.7	3939.7	1766.9	1473.4	1681.6	1606.8	1297.2	1211.8	1089.0	1073.0
55°	10228.2	8370.5	3758.2	1553.4	1366.7	1596.2	1521.4	1291.9	1249.2	1089.0	1051.6
57.5°	11034.3	8872.3	3464.6	1345.2	1249.2	1468.0	1489.4	1259.9	1169.1	1078.4	1035.7
60°	11925.7	9406.1	2978.7	1169.1	1147.8	1361.3	1446.7	1190.5	1078.4	1046.2	1025.0
62.5°	12641.1	9886.6	2327.5	1046.2	1062.3	1275.8	1393.3	1147.8	1041.0	1014.3	1008.9
65°	12950.7	9897.2	1670.9	939.5	976.9	1195.8	1339.9	1110.4	1008.9	998.3	992.9
67.5°	12625.1	9352.7	1174.4	838.1	886.2	1121.0	1270.4	1073.0	976.9	982.2	971.6
70°	11573.4	8205.0	859.5	742.0	800.8	1041.0	1195.8	1025.0	939.5	950.2	934.1
72.5°	9683.6	6395.3	688.7	662.0	731.4	955.6	1121.0	971.6	880.8	886.2	854.1
75°	7153.3	4238.6	576.6	592.5	651.3	875.5	1025.0	902.2	816.7	795.4	774.1
77.5°	4254.7	2178.0	475.1	517.8	582.0	779.3	918.3	816.7	747.4	709.9	694.1
80°	1756.4	880.8	389.7	437.7	507.2	694.1	811.5	715.3	667.2	629.9	608.6
82.5°	699.4	432.4	309.6	357.8	427.1	603.2	709.9	629.9	582.0	555.1	496.5
85°	266.9	213.5	208.2	250.9	320.3	464.5	587.2	528.5	491.1	421.7	405.7
87.5°	106.7	96.0	96.0	122.8	181.5	293.6	421.7	368.3	384.4	304.3	309.6
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)