

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: P237119

Luminaire Tested: **ARCH-L-AF72-260-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28909 lumens
Efficiency: N/A
Efficacy: 110.8 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

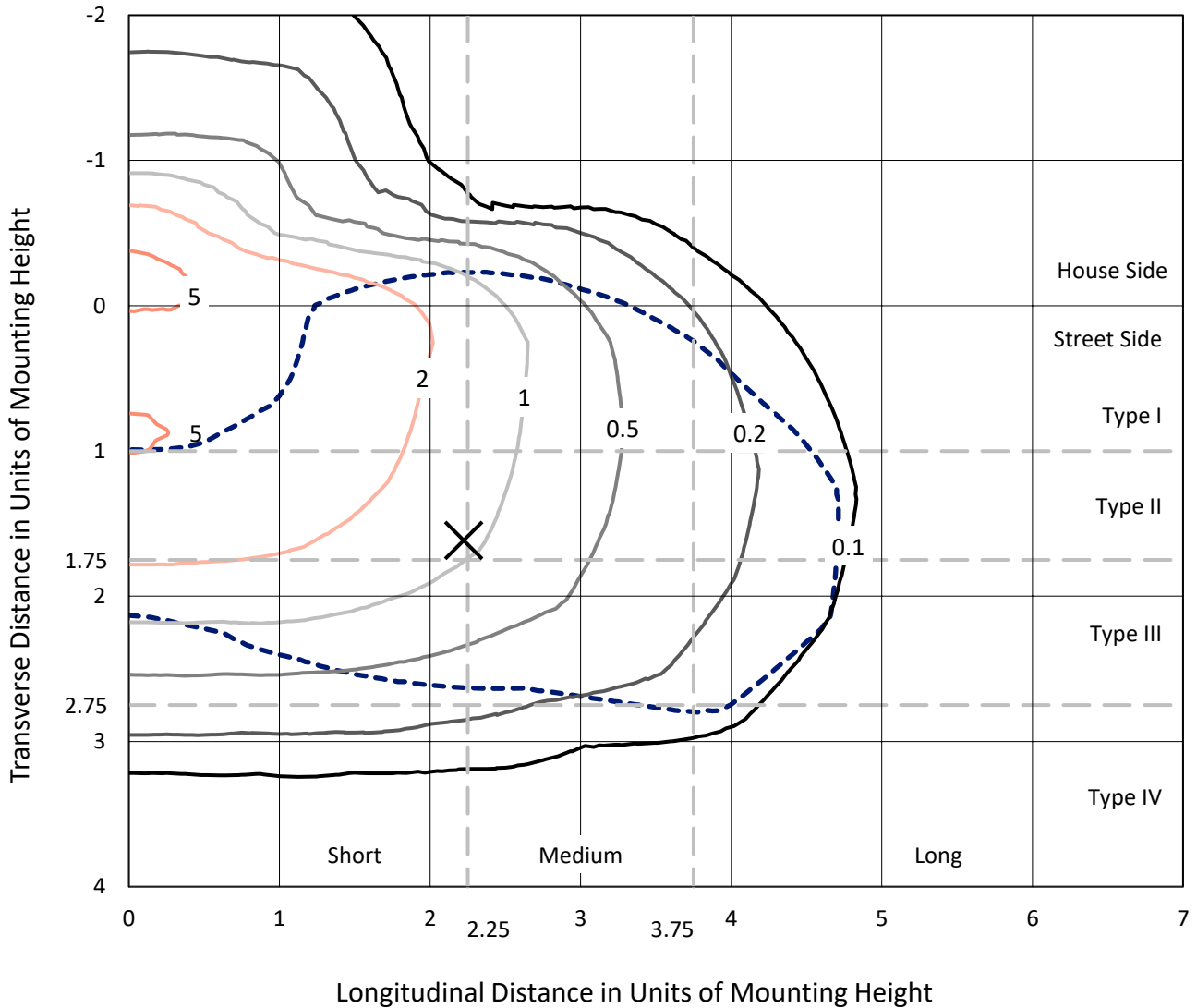
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237119
 CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050

Iso-Footcandle Lines of Horizontal Illumination

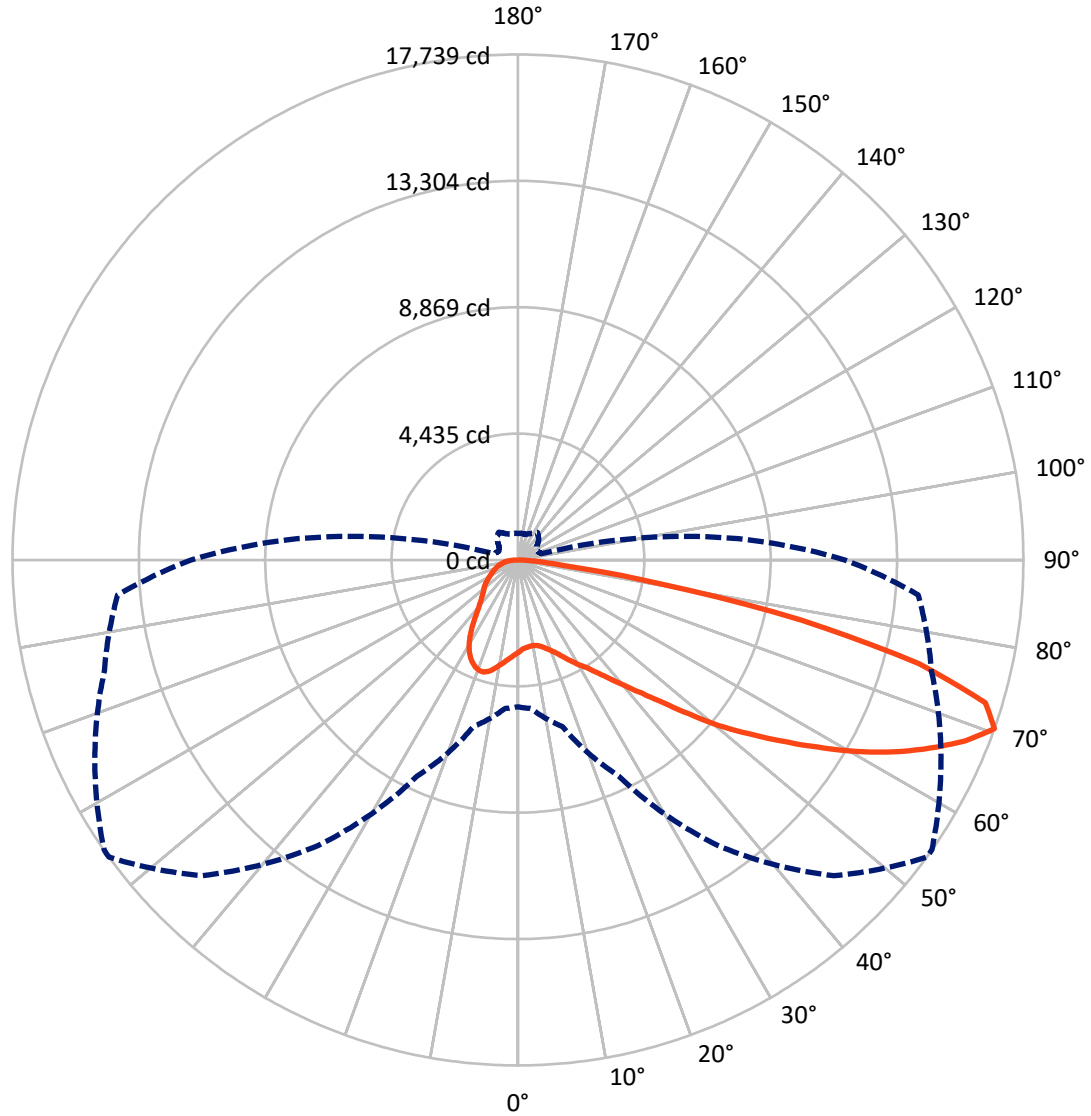
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P237119
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P237119
 CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050

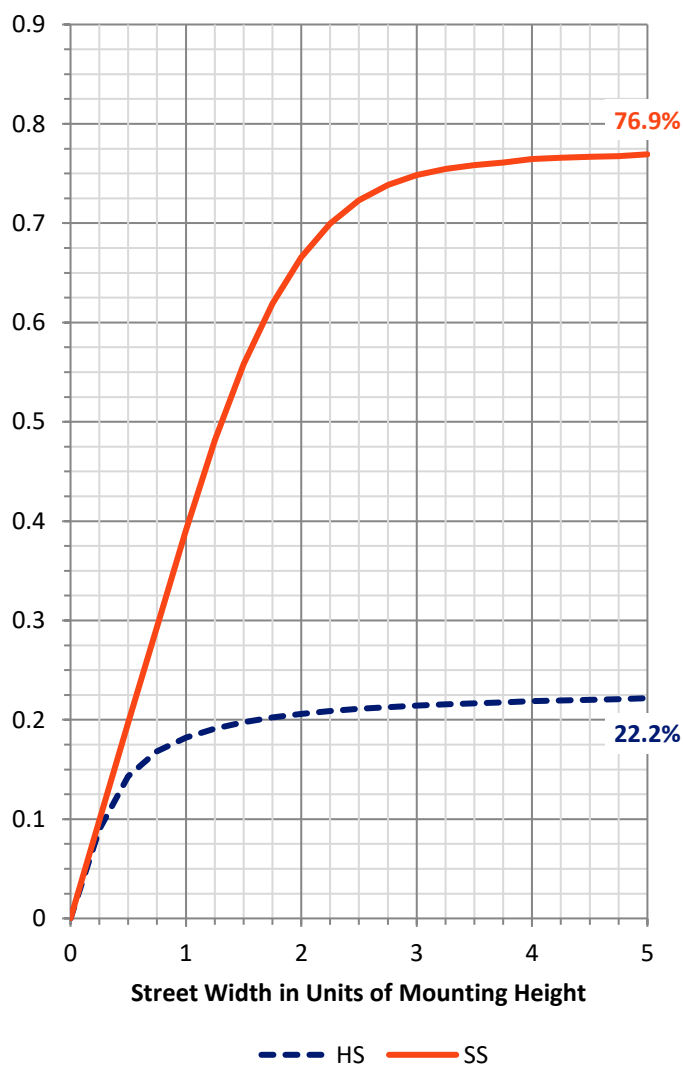
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6556.5	0.0	6556.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	22352.5	0.0	22352.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	28909.0	0.0	28909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	1.1
10°-20°	1014.2	3.5
20°-30°	1762.0	6.1
30°-40°	2575.0	8.9
40°-50°	4041.4	14.0
50°-60°	6214.7	21.5
60°-70°	7592.8	26.3
70°-80°	4707.6	16.3
80°-90°	683.9	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°	28909.0	100.0
0°-180°	28909.0	100.0

Coefficient of Utilization



REPORT NUMBER: P237119

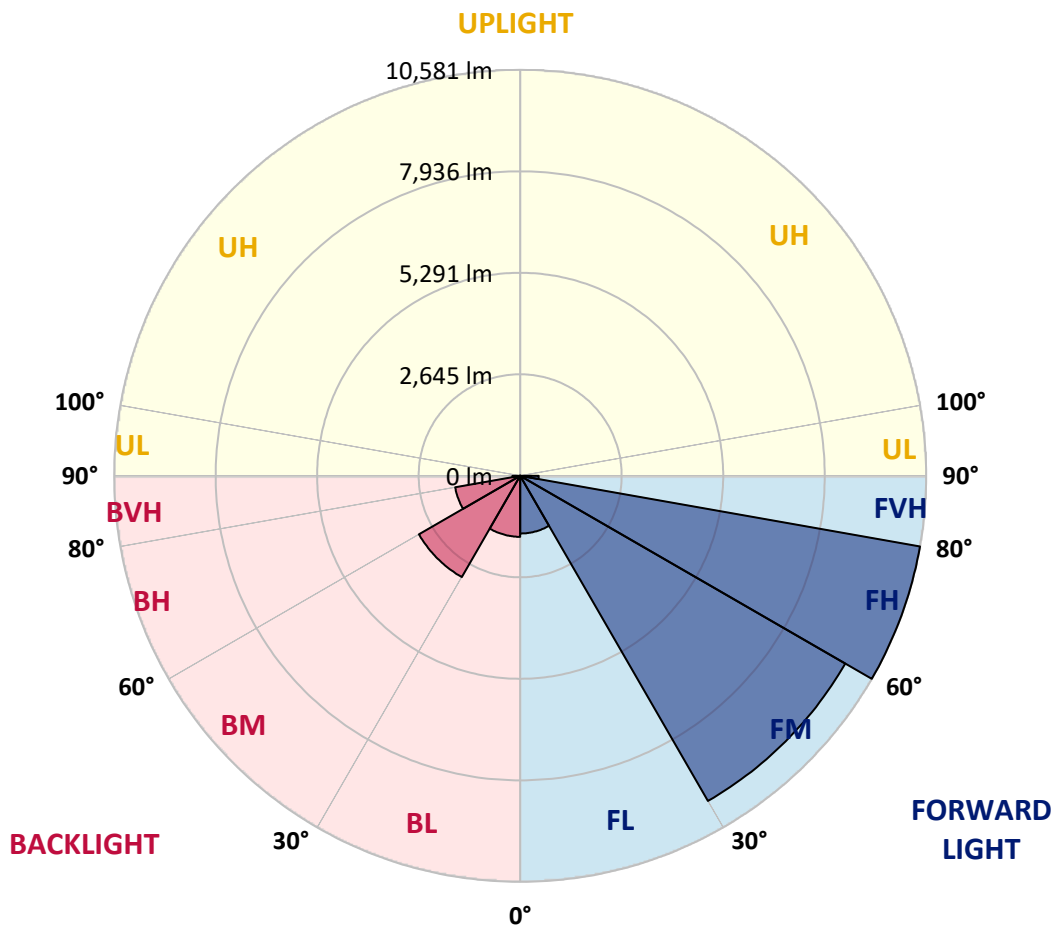
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1504.1	5.2			
FM (30°-60°)	9784.4	33.8			
FH (60°-80°)	10581.1	36.6			G4/12000
FVH (80°-90°)	482.9	1.7			G3/500
BL (0°-30°)	1589.5	5.5	B3/2500		
BM (30°-60°)	3046.7	10.5	B3/5000		
BH (60°-80°)	1719.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	201.0	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





REPORT NUMBER: P237119

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3
2.5°	3107.3	3096.7	3096.7	3112.6	3117.9	3133.8	3133.8	3139.1	3154.9	3181.4	3213.2
5°	3012.0	3006.7	3012.0	3033.2	3043.8	3075.5	3086.1	3091.4	3123.2	3165.5	3213.2
7.5°	2916.7	2911.4	2922.0	2953.8	2985.5	3033.2	3059.6	3064.9	3112.6	3170.8	3234.3
10°	2885.0	2879.7	2895.5	2922.0	2953.8	3006.7	3049.1	3054.4	3123.2	3192.0	3282.0
12.5°	2927.3	2922.0	2937.9	2964.4	2996.1	3033.2	3080.8	3086.1	3176.1	3266.1	3361.4
15°	3033.2	3033.2	3038.5	3054.4	3086.1	3117.9	3160.2	3165.5	3260.8	3366.7	3462.0
17.5°	3197.3	3186.7	3186.7	3181.4	3202.6	3218.5	3271.4	3276.7	3377.3	3472.5	3567.8
20°	3398.4	3393.1	3372.0	3345.5	3340.2	3350.8	3403.7	3409.0	3509.6	3589.0	3679.0
22.5°	3641.9	3647.2	3599.6	3541.4	3514.9	3530.8	3578.4	3583.7	3657.8	3726.6	3806.0
25°	3964.8	3949.0	3880.1	3795.4	3742.5	3742.5	3790.2	3790.2	3859.0	3901.3	3954.3
27.5°	4271.9	4240.1	4176.6	4054.8	3970.1	3986.0	4033.7	4033.7	4097.2	4113.1	4139.5
30°	4605.4	4573.6	4494.2	4340.7	4229.5	4218.9	4277.2	4271.9	4356.6	4351.3	4330.1
32.5°	5013.0	4997.1	4864.7	4668.9	4520.7	4483.6	4536.5	4541.8	4594.8	4578.9	4510.1
35°	5584.7	5579.4	5457.6	5113.5	4917.7	4848.9	4880.6	4880.6	4917.7	4875.3	4758.9
37.5°	6304.6	6315.2	6209.3	5701.1	5425.8	5309.4	5314.7	5309.4	5320.0	5272.3	5150.6
40°	7024.5	7051.0	7045.7	6431.6	6082.2	5881.1	5807.0	5796.4	5822.9	5801.7	5685.2
42.5°	7972.0	8035.5	7887.3	7331.5	6939.8	6601.0	6399.9	6373.4	6431.6	6458.1	6346.9
45°	8956.6	8935.4	8702.5	8300.2	7945.6	7511.5	7130.4	7088.0	7130.4	7209.8	7093.3
47.5°	9470.1	9454.2	9396.0	9194.8	9141.9	8644.3	8067.3	8030.3	7950.8	8062.0	7924.4
50°	10317.0	10332.9	10094.7	10073.5	10295.9	10020.6	9126.0	9041.3	8898.4	8988.4	8871.9
52.5°	10931.1	10862.3	10714.1	10899.3	11592.8	11444.6	10121.2	10084.1	9951.8	9930.6	9877.7
55°	11179.9	11179.9	11206.4	11635.1	12625.0	12429.2	11201.1	11238.1	11058.1	10909.9	10978.7
57.5°	11254.0	11285.8	11513.4	12222.7	13837.2	13196.7	12392.1	12445.0	12185.7	11889.2	12106.3
60°	10888.7	10984.0	11529.3	12556.2	14520.1	14011.9	13646.7	13662.5	13286.7	12852.6	13233.8
62.5°	9951.8	10068.3	11042.3	12693.8	14408.9	14848.3	14832.4	14869.5	14356.0	13816.1	14292.5
65°	8803.1	8919.6	9957.1	12307.4	14324.2	15446.5	15917.6	16018.2	15356.5	14631.3	14954.2
67.5°	7114.5	7268.0	8252.6	11005.2	13911.3	15938.8	16933.9	17039.8	16129.3	15054.7	14895.9
70°	5155.9	5230.0	6055.8	8363.7	12228.0	15668.8	17738.5	17733.3	16383.4	15023.0	14101.9
72.5°	2482.7	2540.9	3255.5	5192.9	8744.9	13297.3	17156.3	17256.8	16034.0	14562.4	12286.2
75°	1021.6	1079.9	1318.1	2191.5	4589.5	8787.2	14541.3	14779.5	14562.4	13069.7	9613.0
77.5°	635.2	656.4	772.9	1132.8	2096.2	4102.5	10179.4	10502.3	11539.8	10470.6	6346.9
80°	476.4	492.3	577.0	794.0	1323.4	1513.9	5055.3	5462.9	6992.7	6008.1	2874.4
82.5°	397.0	402.3	460.5	577.0	899.9	868.1	1619.8	1805.1	3260.8	2292.1	989.9
85°	370.5	381.1	412.9	412.9	571.7	545.2	672.3	704.0	947.5	783.4	344.1
87.5°	190.6	180.0	365.3	322.9	296.4	264.7	285.8	307.0	354.7	375.8	153.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P237119

CATALOG NUMBER: ARCH-L-AF72-260-D-U-T3-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3	3234.3
2.5°	3223.7	3239.6	3266.1	3292.6	3324.3	3361.4	3382.6	3409.0	3430.2	3419.6	3414.3
5°	3239.6	3266.1	3324.3	3377.3	3440.8	3514.9	3562.5	3615.5	3657.8	3668.4	3652.5
7.5°	3266.1	3313.7	3393.1	3488.4	3573.1	3668.4	3742.5	3816.6	3869.6	3880.1	3880.1
10°	3329.6	3382.6	3488.4	3615.5	3716.0	3816.6	3901.3	3959.5	4007.2	4028.4	4028.4
12.5°	3419.6	3483.1	3610.2	3763.7	3874.8	3970.1	4017.8	4044.2	4065.4	4086.6	4091.9
15°	3525.5	3594.3	3747.8	3911.9	4028.4	4076.0	4076.0	4070.7	4070.7	4081.3	4091.9
17.5°	3631.3	3705.5	3864.3	4038.9	4113.1	4086.6	4049.5	4033.7	4023.1	4017.8	4033.7
20°	3742.5	3816.6	3975.4	4139.5	4118.3	4007.2	3954.3	3917.2	3885.4	3869.6	3890.7
22.5°	3864.3	3933.1	4097.2	4208.3	4049.5	3880.1	3779.6	3721.3	3668.4	3636.6	3657.8
25°	4007.2	4076.0	4234.8	4229.5	3927.8	3689.6	3530.8	3435.5	3377.3	3345.5	3345.5
27.5°	4176.6	4234.8	4388.3	4176.6	3758.4	3435.5	3202.6	3112.6	3096.7	3070.2	3070.2
30°	4351.3	4398.9	4531.2	4054.8	3525.5	3102.0	2847.9	2805.6	2810.9	2784.4	2789.7
32.5°	4531.2	4578.9	4615.9	3874.8	3223.7	2726.2	2556.8	2525.0	2519.7	2498.5	2477.4
35°	4785.3	4854.1	4626.5	3631.3	2858.5	2413.8	2292.1	2260.3	2228.6	2154.5	2154.5
37.5°	5171.8	5245.9	4600.1	3329.6	2482.7	2170.3	2059.2	2016.8	1963.9	1889.8	1863.3
40°	5701.1	5701.1	4541.8	2990.8	2180.9	1974.5	1868.6	1815.7	1757.4	1683.3	1667.5
42.5°	6325.7	6177.5	4451.8	2646.8	1958.6	1842.1	1746.9	1688.6	1619.8	1535.1	1524.5
45°	7056.2	6653.9	4324.8	2339.7	1794.5	1762.7	1704.5	1603.9	1487.5	1397.5	1381.6
47.5°	7765.6	7082.7	4203.0	2122.7	1656.9	1731.0	1683.3	1513.9	1355.1	1228.1	1212.2
50°	8543.7	7463.8	4060.1	1942.7	1551.0	1709.8	1656.9	1381.6	1206.9	1116.9	1106.3
52.5°	9321.9	7850.3	3906.6	1752.2	1461.0	1667.5	1593.3	1286.3	1201.6	1079.9	1064.0
55°	10142.4	8300.2	3726.6	1540.4	1355.1	1582.8	1508.6	1281.0	1238.7	1079.9	1042.8
57.5°	10941.7	8797.8	3435.5	1334.0	1238.7	1455.7	1476.9	1249.3	1159.3	1069.3	1026.9
60°	11825.7	9327.2	2953.8	1159.3	1138.1	1349.8	1434.5	1180.5	1069.3	1037.5	1016.4
62.5°	12535.0	9803.6	2308.0	1037.5	1053.4	1265.1	1381.6	1138.1	1032.2	1005.8	1000.5
65°	12842.0	9814.2	1656.9	931.7	968.7	1185.7	1328.7	1101.0	1000.5	989.9	984.6
67.5°	12519.1	9274.2	1164.6	831.1	878.7	1111.6	1259.9	1064.0	968.7	974.0	963.4
70°	11476.3	8136.1	852.3	735.8	794.0	1032.2	1185.7	1016.4	931.7	942.2	926.4
72.5°	9602.4	6341.6	682.9	656.4	725.2	947.5	1111.6	963.4	873.4	878.7	847.0
75°	7093.3	4203.0	571.7	587.6	645.8	868.1	1016.4	894.6	809.9	788.7	767.6
77.5°	4218.9	2159.8	471.1	513.5	577.0	772.9	910.5	809.9	741.1	704.0	688.2
80°	1741.6	873.4	386.4	434.1	502.9	688.2	804.6	709.3	661.7	624.6	603.5
82.5°	693.4	428.8	307.0	354.7	423.5	598.2	704.0	624.6	577.0	550.5	492.3
85°	264.7	211.7	206.4	248.8	317.6	460.5	582.3	524.1	487.0	418.2	402.3
87.5°	105.9	95.3	95.3	121.8	180.0	291.1	418.2	365.3	381.1	301.7	307.0
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)