

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: P237339

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-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: 29449.7 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

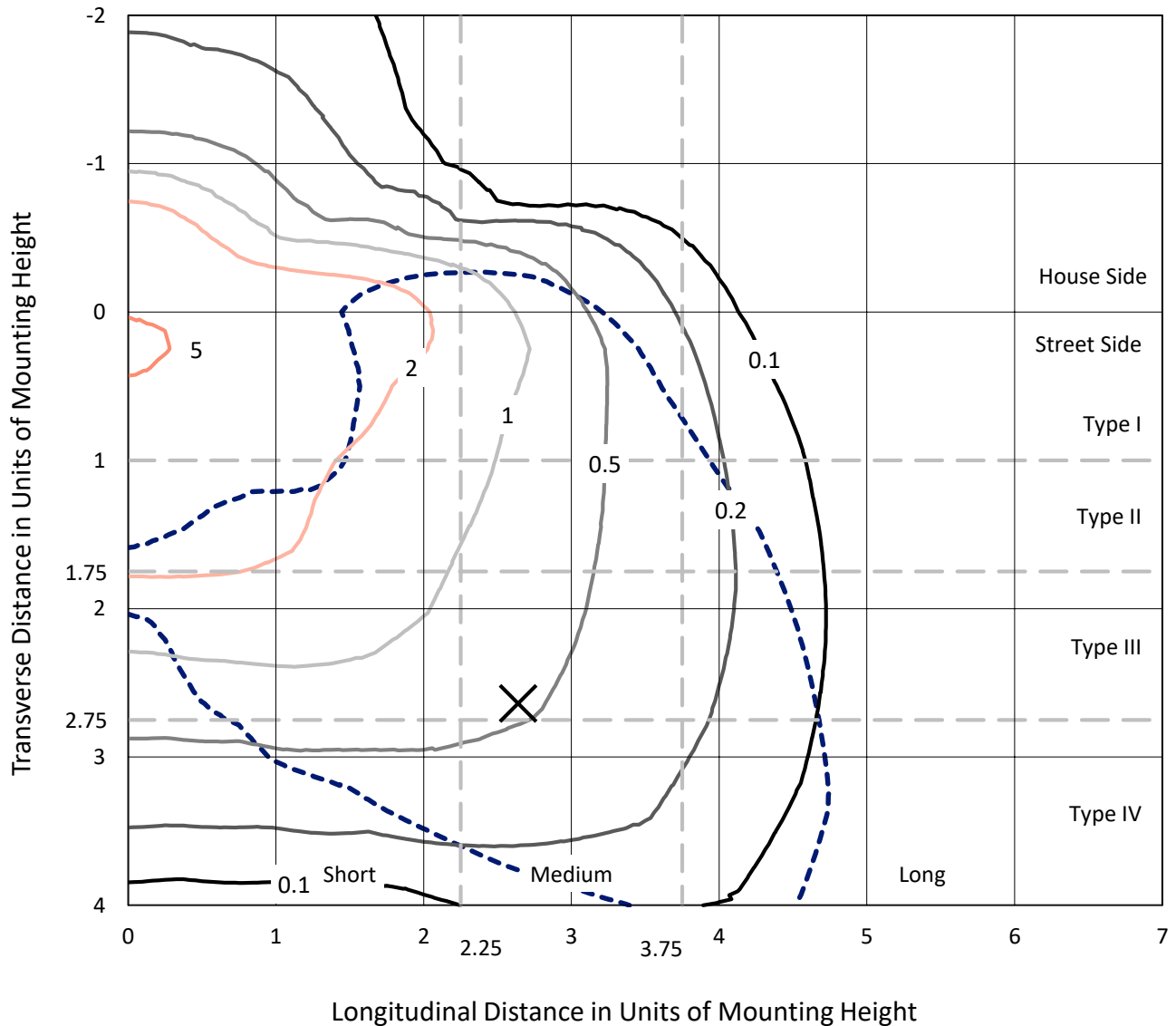
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

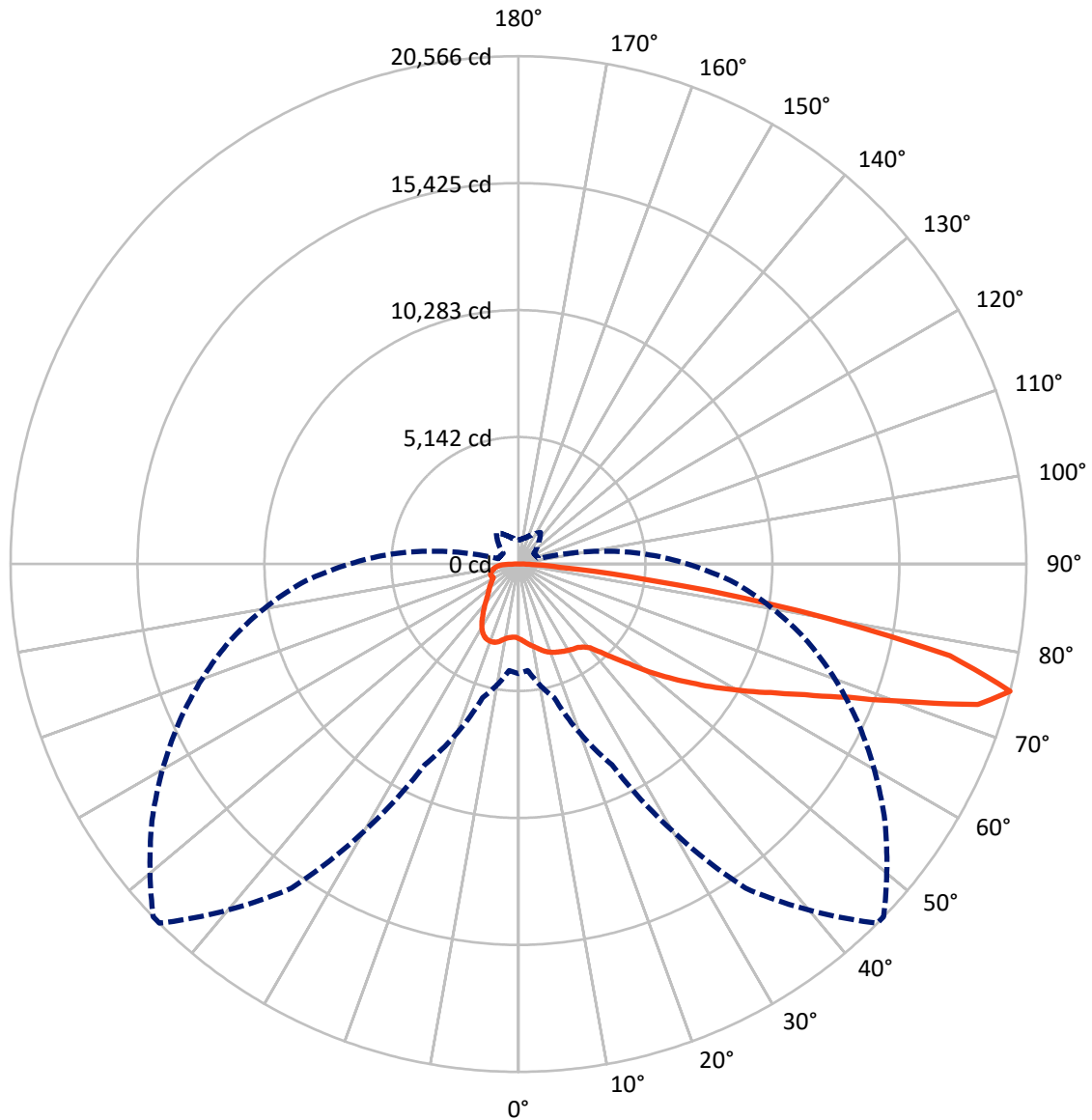


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - Non-Cutoff

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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	6822.2	0.0	6822.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	22627.4	0.0	22627.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	29449.7	0.0	29449.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.2	1.0
10°-20°	969.5	3.3
20°-30°	1663.7	5.6
30°-40°	2326.9	7.9
40°-50°	3413.3	11.6
50°-60°	5317.0	18.1
60°-70°	7650.8	26.0
70°-80°	6664.7	22.6
80°-90°	1144.6	3.9
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°	29449.7	100.0
0°-180°	29449.7	100.0



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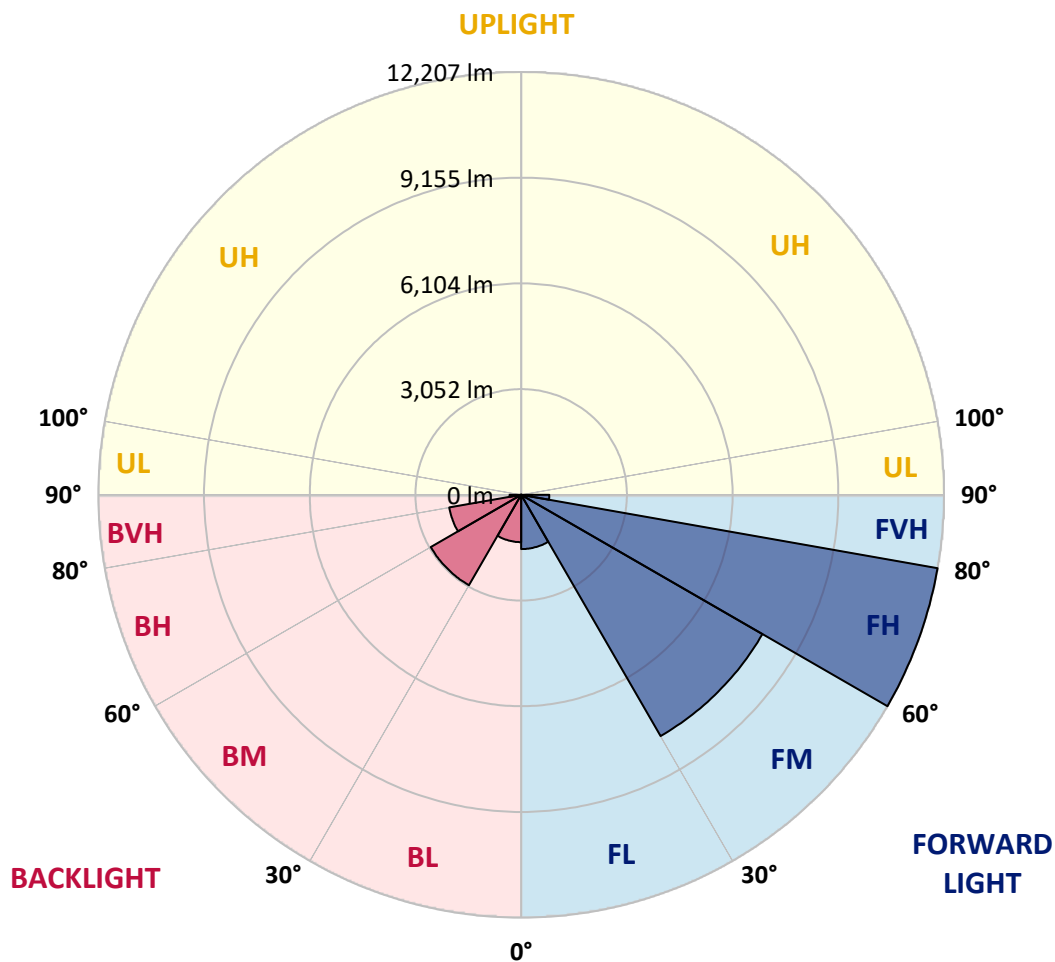
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1566.0	5.3			
FM	(30°-60°)	8042.2	27.3			
FH	(60°-80°)	12207.2	41.5			G5
FVH	(80°-90°)	812.1	2.8			G5
BL	(0°-30°)	1366.4	4.6	B3/2500		
BM	(30°-60°)	3015.1	10.2	B3/5000		
BH	(60°-80°)	2108.3	7.2	B3/2500		G3/2500
BVH	(80°-90°)	332.5	1.1			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°	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0
2.5°	3168.0	3145.1	3145.1	3127.9	3127.9	3099.2	3087.8	3082.0	3053.4	3036.2	3019.0
5°	3351.3	3322.6	3316.9	3276.8	3259.6	3196.6	3190.9	3150.8	3099.2	3047.7	3007.6
7.5°	3517.4	3500.2	3471.6	3431.5	3379.9	3299.7	3294.0	3231.0	3145.1	3076.3	3019.0
10°	3637.7	3626.3	3586.2	3534.6	3477.3	3397.1	3391.4	3322.6	3219.5	3139.3	3059.1
12.5°	3780.9	3763.7	3712.2	3643.4	3580.4	3506.0	3500.2	3442.9	3328.4	3225.3	3122.1
15°	3918.4	3895.5	3832.5	3763.7	3695.0	3632.0	3632.0	3569.0	3448.7	3328.4	3208.1
17.5°	3987.2	3975.7	3912.7	3838.2	3780.9	3735.1	3729.4	3672.1	3551.8	3425.8	3294.0
20°	4010.1	4015.8	3958.5	3878.3	3838.2	3815.3	3809.6	3769.5	3637.7	3517.4	3391.4
22.5°	4004.3	4021.5	3975.7	3889.8	3878.3	3878.3	3878.3	3832.5	3729.4	3609.1	3483.0
25°	4027.3	4050.2	4015.8	3912.7	3912.7	3935.6	3935.6	3912.7	3821.0	3717.9	3591.9
27.5°	4107.5	4124.6	4096.0	3952.8	3958.5	3992.9	3987.2	3992.9	3935.6	3838.2	3712.2
30°	4204.8	4227.8	4193.4	4015.8	4010.1	4044.4	4044.4	4073.1	4033.0	3929.9	3826.8
32.5°	4468.4	4462.6	4353.8	4084.5	4067.4	4101.7	4101.7	4130.4	4107.5	4027.3	3929.9
35°	5253.2	5167.2	4926.6	4308.0	4136.1	4153.3	4153.3	4204.8	4216.3	4153.3	4067.4
37.5°	6055.3	6026.6	5843.3	4903.7	4388.2	4262.1	4256.4	4330.9	4382.4	4330.9	4273.6
40°	6863.0	6840.1	6800.0	5700.1	4915.2	4456.9	4439.7	4502.7	4594.4	4560.0	4525.6
42.5°	7613.4	7602.0	7642.1	6484.9	5585.4	4875.1	4823.5	4749.0	4880.8	4869.3	4869.3
45°	8203.5	8232.1	8255.0	7218.1	6313.0	5413.6	5350.5	5098.5	5276.1	5321.9	5356.3
47.5°	8535.7	8558.6	8638.8	7934.2	7040.6	6038.1	5992.2	5579.7	5814.7	5952.1	6049.5
50°	9011.2	8948.2	9016.9	8633.1	7917.0	6851.5	6725.5	6227.1	6525.0	6765.6	6994.7
52.5°	9469.6	9366.4	9423.7	9440.9	8913.8	7647.8	7516.0	6989.0	7361.4	7739.4	8146.2
55°	9882.0	9876.3	9933.6	10225.7	9876.3	8501.3	8352.4	7831.1	8369.6	8776.3	9463.8
57.5°	10214.3	10271.6	10523.6	11136.6	10987.6	9429.5	9263.2	8810.7	9446.6	9853.4	10993.3
60°	10603.8	10695.5	11113.6	11909.9	12001.6	10403.3	10231.5	9904.9	10552.2	10964.7	12763.5
62.5°	10735.6	10867.3	11726.6	12723.4	13061.4	11468.8	11314.1	11096.5	11715.1	12087.5	14527.9
65°	9859.1	10111.2	12064.6	13141.6	14201.4	12752.0	12620.2	12431.2	12872.3	13118.7	15725.2
67.5°	9618.5	9733.1	11405.8	13743.1	15272.7	14401.9	14270.2	13943.6	13955.1	13852.0	16114.7
70°	9280.4	9406.5	10729.8	14195.7	16808.0	16659.0	16498.6	15536.2	14946.1	14321.7	15347.1
72.5°	7905.6	7865.5	9246.0	12975.4	17547.0	19454.6	19265.5	17249.1	15679.4	13915.0	12952.5
75°	4439.7	4325.1	5608.4	8976.8	16023.1	20566.0	20560.3	18114.1	15163.8	12121.9	8816.4
77.5°	1288.9	1254.5	1850.3	3763.7	10787.1	17867.8	18085.5	16338.2	12654.6	8707.6	4840.7
80°	607.2	618.7	796.3	1243.1	4605.8	11531.8	12156.2	10758.5	7561.9	4015.8	1999.4
82.5°	383.8	389.5	544.2	802.0	1947.8	5236.0	5751.6	4840.7	2996.1	1735.7	882.2
85°	240.6	240.6	360.9	527.0	1162.9	1672.7	1815.9	1649.8	1283.2	945.2	481.2
87.5°	131.8	131.8	217.7	303.6	635.9	538.5	555.7	658.8	802.0	578.6	240.6
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°	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0
2.5°	3013.3	3001.8	2984.7	2978.9	2973.2	2967.5	2973.2	2984.7	2973.2	2973.2	2978.9
5°	2996.1	2984.7	2961.7	2961.7	2967.5	2973.2	3001.8	3019.0	3024.8	3024.8	3024.8
7.5°	2996.1	2978.9	2961.7	2967.5	2978.9	3001.8	3047.7	3076.3	3099.2	3105.0	3105.0
10°	3024.8	3001.8	2990.4	3001.8	3036.2	3053.4	3099.2	3145.1	3173.7	3185.2	3185.2
12.5°	3076.3	3053.4	3053.4	3076.3	3122.1	3145.1	3185.2	3219.5	3253.9	3271.1	3271.1
15°	3162.2	3133.6	3139.3	3179.4	3231.0	3253.9	3282.5	3294.0	3322.6	3345.6	3345.6
17.5°	3242.4	3213.8	3225.3	3271.1	3305.5	3316.9	3334.1	3328.4	3339.8	3357.0	3362.7
20°	3334.1	3305.5	3311.2	3339.8	3345.6	3334.1	3334.1	3316.9	3311.2	3339.8	3351.3
22.5°	3425.8	3397.1	3391.4	3374.2	3345.6	3316.9	3299.7	3282.5	3271.1	3299.7	3311.2
25°	3534.6	3494.5	3465.9	3391.4	3316.9	3265.4	3242.4	3231.0	3225.3	3253.9	3265.4
27.5°	3654.9	3614.8	3528.9	3368.5	3248.2	3162.2	3145.1	3145.1	3156.5	3173.7	3185.2
30°	3769.5	3729.4	3574.7	3316.9	3127.9	3001.8	2984.7	3001.8	3030.5	3047.7	3064.9
32.5°	3884.0	3843.9	3603.3	3236.7	2950.3	2789.9	2778.4	2807.1	2852.9	2864.4	2875.8
35°	4038.7	3998.6	3637.7	3122.1	2726.9	2555.0	2543.6	2560.8	2600.9	2618.0	2635.2
37.5°	4256.4	4233.5	3689.3	2996.1	2520.7	2331.6	2297.2	2285.8	2308.7	2303.0	2325.9
40°	4542.8	4560.0	3780.9	2830.0	2320.2	2125.4	2050.9	2016.5	1993.6	1947.8	1970.7
42.5°	4961.0	4972.5	3884.0	2641.0	2148.3	1930.6	1833.1	1770.1	1724.3	1649.8	1661.3
45°	5574.0	5476.6	4004.3	2440.5	1993.6	1775.8	1661.3	1586.8	1523.8	1460.8	1466.5
47.5°	6387.5	6089.6	4136.1	2274.3	1838.9	1649.8	1546.7	1460.8	1386.3	1334.7	1340.5
50°	7390.0	6851.5	4267.9	2119.7	1684.2	1552.4	1460.8	1369.1	1294.6	1243.1	1237.4
52.5°	8713.3	7768.1	4353.8	1947.8	1529.5	1466.5	1386.3	1300.4	1208.7	1145.7	1140.0
55°	10088.2	8833.6	4428.3	1741.5	1380.6	1369.1	1329.0	1231.6	1122.8	1042.6	1031.1
57.5°	11600.6	9973.7	4485.5	1541.0	1266.0	1288.9	1277.5	1162.9	1042.6	968.1	962.4
60°	12975.4	11153.7	4302.2	1363.4	1162.9	1208.7	1220.2	1122.8	1059.8	1077.0	1082.7
62.5°	14361.8	12064.6	3603.3	1231.6	1094.1	1157.2	1254.5	1248.8	1220.2	1248.8	1254.5
65°	14860.2	12253.6	2555.0	1122.8	1025.4	1180.1	1363.4	1351.9	1220.2	1168.6	1157.2
67.5°	14579.5	11692.2	1718.6	1036.9	973.8	1208.7	1478.0	1351.9	1174.3	1105.6	1082.7
70°	13244.8	10311.7	1260.3	950.9	928.0	1203.0	1541.0	1346.2	1151.4	1077.0	1048.3
72.5°	10563.7	7957.1	1013.9	870.7	859.3	1174.3	1575.3	1334.7	1128.5	1048.3	1013.9
75°	6840.1	4949.5	853.6	790.5	756.2	1128.5	1558.2	1300.4	1099.9	996.8	973.8
77.5°	3173.7	2131.1	727.5	698.9	658.8	1059.8	1506.6	1231.6	1036.9	939.5	910.8
80°	1478.0	1008.2	613.0	607.2	590.0	1002.5	1437.9	1151.4	962.4	882.2	836.4
82.5°	790.5	607.2	498.4	498.4	515.6	933.7	1351.9	1054.0	865.0	824.9	704.6
85°	418.2	349.4	360.9	389.5	441.1	824.9	1237.4	950.9	756.2	630.1	613.0
87.5°	212.0	223.4	223.4	263.5	338.0	670.2	1019.7	784.8	641.6	515.6	504.1
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)