

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: P400162

Luminaire Tested: **ARCH-L-PA3-240-750-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-240-750-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32666 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

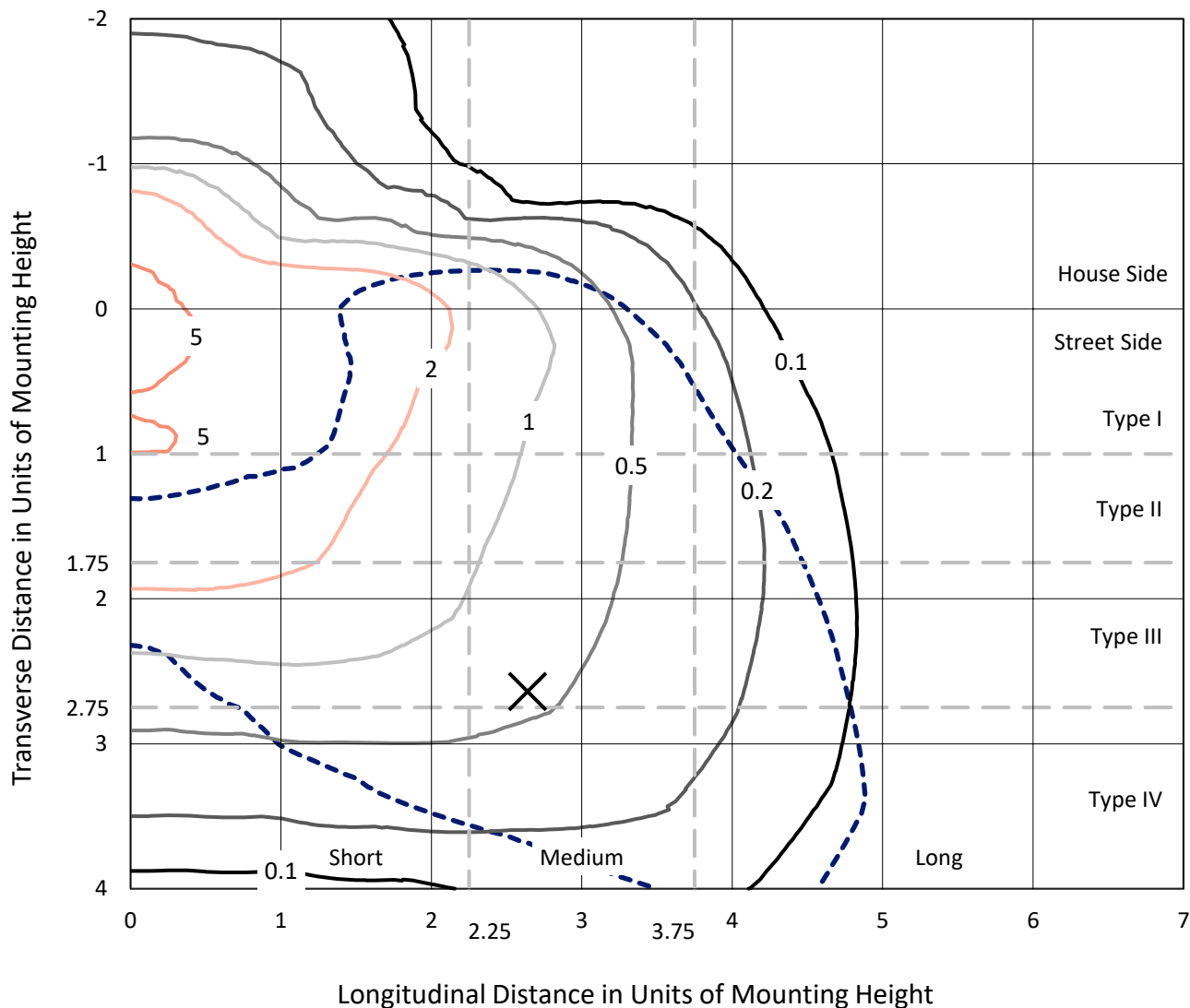
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

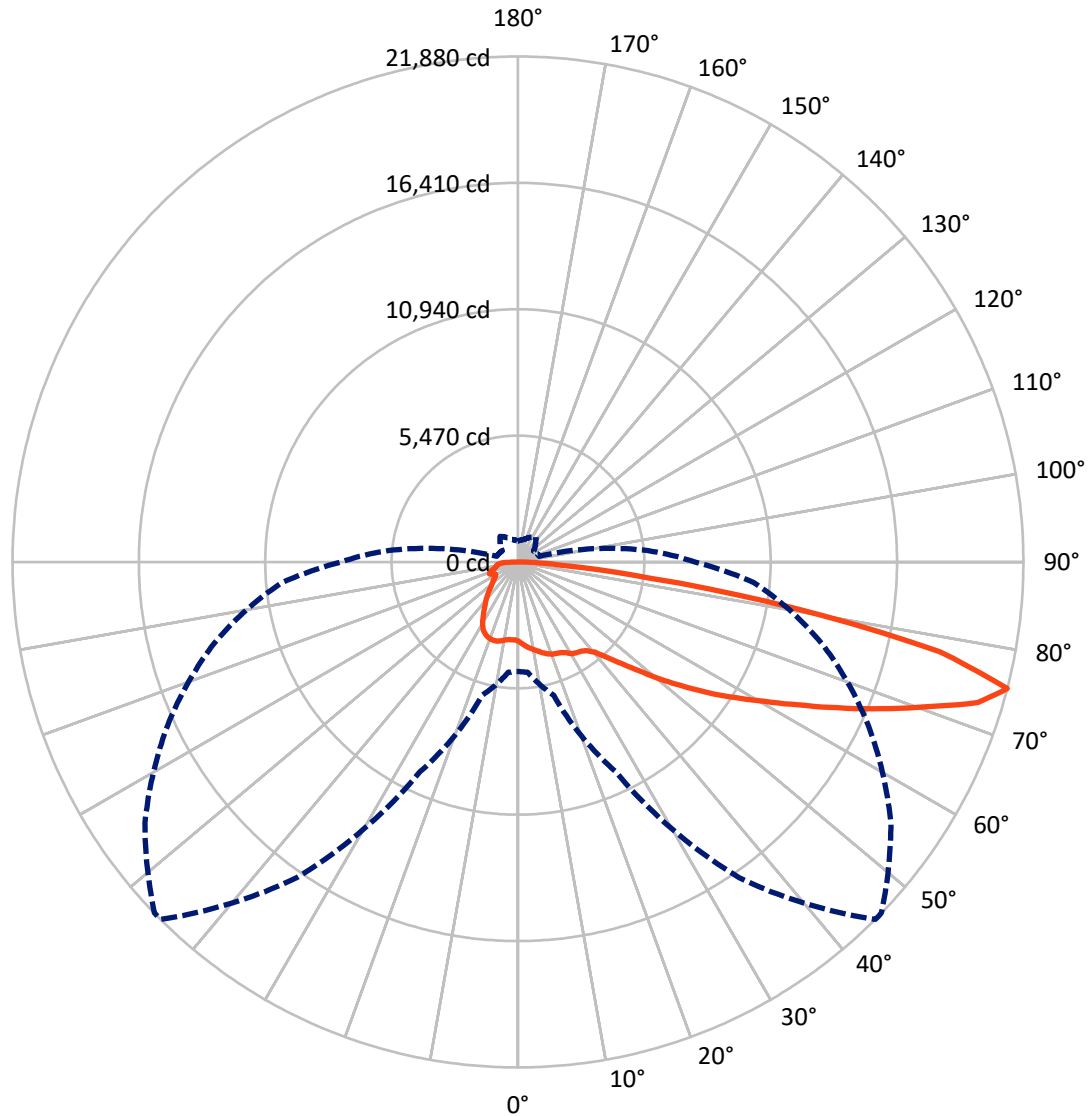
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Medium - N/A

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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
<b>House Side</b>	Lumens	7219.0	0.0	7219.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	25447.0	0.0	25447.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	32666.0	0.0	32666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.4	1.0
10°-20°	1079.7	3.3
20°-30°	1840.8	5.6
30°-40°	2579.1	7.9
40°-50°	3789.1	11.6
50°-60°	6030.4	18.5
60°-70°	8578.3	26.3
70°-80°	7182.6	22.0
80°-90°	1246.5	3.8
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°	32666.0	100.0
0°-180°	32666.0	100.0

**Coefficient of Utilization**

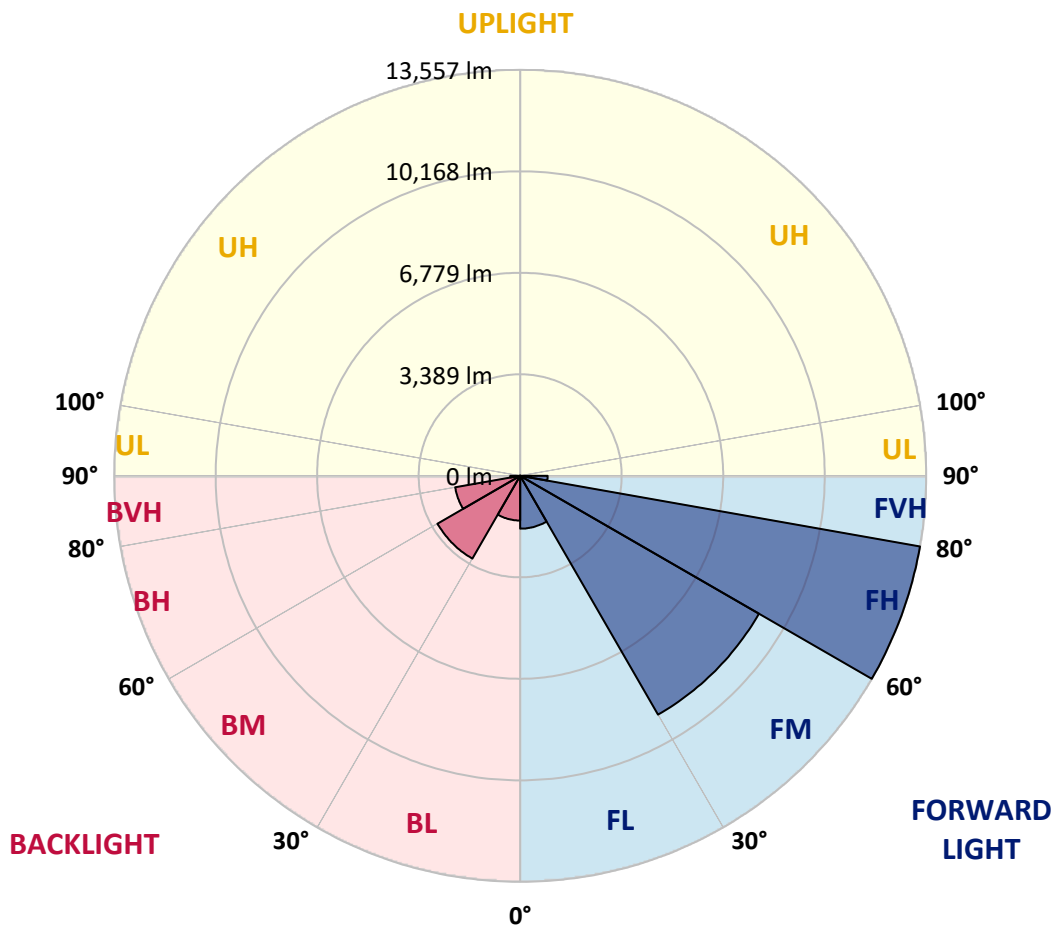


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.8	5.4			
FM (30°-60°)	9207.5	28.2			
FH (60°-80°)	13557.2	41.5			G5
FVH (80°-90°)	916.4	2.8			G5
BL (0°-30°)	1494.1	4.6	B3/2500		
BM (30°-60°)	3191.1	9.8	B3/5000		
BH (60°-80°)	2203.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	330.1	1.0			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°	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6
2.5°	3627.1	3609.6	3600.9	3600.9	3566.0	3544.1	3539.8	3509.2	3483.0	3456.8	3435.0
5°	3836.6	3823.5	3797.3	3775.5	3727.4	3666.3	3657.6	3592.1	3526.7	3465.6	3413.2
7.5°	4028.6	4002.4	3971.9	3928.2	3849.7	3766.7	3753.6	3662.0	3570.3	3478.7	3408.8
10°	4190.1	4163.9	4120.3	4059.2	3958.8	3858.4	3845.3	3749.3	3653.2	3544.1	3443.7
12.5°	4342.9	4321.0	4255.6	4172.6	4054.8	3963.1	3950.0	3867.1	3766.7	3644.5	3513.6
15°	4473.8	4452.0	4382.1	4286.1	4150.8	4081.0	4063.5	3985.0	3884.6	3753.6	3618.3
17.5°	4539.3	4539.3	4465.1	4360.3	4233.7	4181.4	4168.3	4072.3	3980.6	3854.0	3718.7
20°	4561.1	4569.8	4517.5	4390.9	4281.8	4259.9	4246.8	4168.3	4063.5	3941.3	3814.7
22.5°	4574.2	4591.7	4548.0	4404.0	4312.3	4299.2	4290.5	4238.1	4155.2	4037.3	3910.8
25°	4617.8	4617.8	4587.3	4425.8	4351.6	4347.2	4347.2	4316.7	4259.9	4159.5	4033.0
27.5°	4683.3	4678.9	4639.7	4473.8	4438.9	4452.0	4447.6	4443.3	4404.0	4303.6	4168.3
30°	4792.4	4792.4	4748.8	4569.8	4548.0	4604.7	4609.1	4617.8	4556.7	4399.6	4290.5
32.5°	4958.3	4940.8	4897.2	4665.9	4630.9	4683.3	4692.0	4687.7	4635.3	4486.9	4434.5
35°	5469.0	5429.7	5272.5	4879.7	4705.1	4735.7	4740.1	4761.9	4770.6	4652.8	4626.6
37.5°	6363.7	6311.3	6071.3	5386.0	4940.8	4866.6	4862.3	4919.0	4967.0	4862.3	4862.3
40°	7337.0	7293.4	7153.7	6259.0	5377.3	5132.9	5115.4	5167.8	5228.9	5154.7	5176.5
42.5°	8175.1	8210.0	8223.1	7184.3	6032.0	5630.4	5582.4	5508.2	5604.3	5538.8	5626.1
45°	8803.6	8786.1	9026.2	8131.4	6878.7	6254.6	6189.1	5988.4	6110.6	6106.2	6298.2
47.5°	9471.4	9440.8	9541.2	9021.8	7843.3	7018.4	6918.0	6621.2	6804.5	6931.1	7249.7
50°	10104.3	10113.0	10147.9	9724.5	8890.9	7948.1	7821.5	7424.3	7686.2	7952.5	8402.0
52.5°	10929.2	10868.1	10824.4	10545.1	10065.0	8917.1	8834.1	8380.2	8746.8	9061.1	9659.1
55°	11649.4	11610.1	11583.9	11570.8	11047.0	9986.4	9899.1	9427.7	9955.9	10178.5	11060.1
57.5°	12417.5	12395.7	12535.4	12758.0	12548.5	11073.2	10981.6	10527.6	11116.9	11274.0	12579.0
60°	12980.6	12993.7	13377.8	13945.2	13801.1	12251.7	12142.6	11741.0	12247.3	12387.0	14097.9
62.5°	12984.9	13115.9	14006.3	15023.3	15189.1	13609.1	13482.5	13046.1	13408.3	13408.3	15459.7
65°	11745.4	11893.8	13892.8	15289.5	16594.5	15224.0	15101.8	14416.6	14551.9	14368.6	16738.6
67.5°	10510.2	10684.8	12565.9	15311.3	17581.0	16952.4	16808.4	15787.1	15555.7	15093.1	17633.3
70°	9689.6	9811.8	11383.1	15027.6	18174.6	18759.4	18650.3	17087.8	16345.8	15699.8	17445.7
72.5°	8157.6	8114.0	9615.4	13678.9	18506.3	20810.8	20719.2	18501.9	17031.0	15411.7	14879.2
75°	4735.7	4788.1	5966.5	10021.3	16681.8	21880.2	21871.5	19710.9	16729.8	13613.5	10252.7
77.5°	1366.1	1405.4	1959.7	4404.0	10549.5	18663.4	19261.4	18026.2	14141.6	9702.7	5316.2
80°	598.0	628.5	851.1	1466.5	4543.6	12190.6	12714.3	12190.6	8528.6	4452.0	2086.3
82.5°	353.5	375.4	554.3	907.9	2178.0	5800.7	6507.7	5682.8	3679.4	1889.9	864.2
85°	200.8	209.5	318.6	576.1	1370.5	2029.6	2278.4	2134.3	1793.9	1073.7	453.9
87.5°	91.7	96.0	157.1	270.6	768.2	685.3	711.4	942.8	1038.8	654.7	227.0
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°	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6
2.5°	3426.3	3413.2	3387.0	3378.3	3365.2	3369.5	3373.9	3373.9	3378.3	3365.2	3365.2
5°	3391.4	3369.5	3343.4	3343.4	3343.4	3378.3	3408.8	3426.3	3435.0	3435.0	3426.3
7.5°	3378.3	3352.1	3321.5	3330.3	3339.0	3382.6	3439.4	3496.1	3513.6	3513.6	3504.8
10°	3404.5	3378.3	3356.4	3369.5	3391.4	3426.3	3469.9	3522.3	3566.0	3570.3	3566.0
12.5°	3465.6	3435.0	3413.2	3439.4	3465.6	3487.4	3509.2	3531.0	3587.8	3596.5	3596.5
15°	3566.0	3535.4	3509.2	3531.0	3539.8	3539.8	3539.8	3539.8	3596.5	3605.2	3605.2
17.5°	3666.3	3640.1	3614.0	3618.3	3592.1	3557.2	3544.1	3539.8	3570.3	3596.5	3600.9
20°	3762.4	3740.5	3714.3	3670.7	3605.2	3539.8	3517.9	3517.9	3535.4	3574.7	3574.7
22.5°	3867.1	3840.9	3797.3	3696.9	3587.8	3496.1	3474.3	3487.4	3509.2	3561.6	3557.2
25°	3985.0	3950.0	3875.8	3688.2	3531.0	3421.9	3426.3	3465.6	3504.8	3561.6	3561.6
27.5°	4115.9	4067.9	3919.5	3618.3	3404.5	3299.7	3339.0	3430.6	3487.4	3548.5	3557.2
30°	4259.9	4216.3	3954.4	3496.1	3199.3	3103.3	3199.3	3347.7	3435.0	3491.8	3504.8
32.5°	4434.5	4399.6	3985.0	3339.0	2933.1	2850.1	2989.8	3173.1	3312.8	3378.3	3391.4
35°	4652.8	4617.8	4024.2	3160.0	2684.3	2597.0	2723.6	2911.2	3094.6	3177.5	3203.7
37.5°	4936.5	4884.1	4059.2	2968.0	2474.8	2374.4	2435.5	2605.7	2771.6	2885.1	2915.6
40°	5298.7	5215.8	4089.7	2749.8	2291.5	2178.0	2199.8	2282.7	2378.8	2479.1	2518.4
42.5°	5809.4	5643.5	4094.1	2518.4	2103.8	1999.0	1990.3	2016.5	2016.5	2016.5	2029.6
45°	6520.8	6206.6	4102.8	2300.2	1911.7	1802.6	1776.4	1767.7	1702.2	1575.7	1566.9
47.5°	7420.0	6944.2	4142.1	2116.9	1711.0	1614.9	1580.0	1545.1	1422.9	1291.9	1265.8
50°	8572.2	7799.7	4220.7	1942.3	1540.7	1475.3	1431.6	1348.7	1213.4	1113.0	1086.8
52.5°	9899.1	8816.7	4294.9	1759.0	1414.2	1370.5	1318.1	1217.7	1073.7	1012.6	1003.9
55°	11422.4	9951.5	4443.3	1597.5	1305.0	1274.5	1226.5	1130.5	1021.3	977.7	973.3
57.5°	12980.6	11221.6	4652.8	1453.4	1200.3	1182.8	1182.8	1099.9	1030.1	1012.6	1012.6
60°	14482.0	12312.8	4491.3	1318.1	1104.3	1113.0	1195.9	1174.1	1121.7	1143.5	1156.6
62.5°	15647.4	12954.4	3644.5	1209.0	1034.4	1113.0	1326.9	1326.9	1265.8	1257.0	1257.0
65°	16145.0	12945.7	2562.1	1126.1	1008.2	1222.1	1479.6	1409.8	1248.3	1187.2	1174.1
67.5°	16018.4	12378.3	1767.7	1069.3	999.5	1335.6	1549.5	1353.1	1169.7	1117.4	1078.1
70°	14905.4	11178.0	1361.8	1017.0	986.4	1287.6	1527.6	1287.6	1108.6	1060.6	1025.7
72.5°	12024.7	8965.1	1130.5	964.6	934.0	1191.6	1453.4	1226.5	1060.6	1008.2	973.3
75°	7668.8	5639.2	955.9	894.8	833.7	1069.3	1353.1	1165.4	1008.2	938.4	912.2
77.5°	3688.2	2431.1	833.7	811.8	750.7	990.8	1252.7	1086.8	938.4	881.7	864.2
80°	1492.7	1113.0	724.5	728.9	689.6	942.8	1182.8	1012.6	868.6	807.5	776.9
82.5°	776.9	646.0	611.1	628.5	628.5	899.1	1130.5	951.5	807.5	781.3	680.9
85°	419.0	401.6	471.4	506.3	545.6	811.8	1051.9	886.0	737.6	632.9	611.1
87.5°	205.1	261.9	266.2	305.5	379.7	650.3	886.0	742.0	615.4	510.7	501.9
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)