

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: P400153

Luminaire Tested: **ARCH-L-PA3-240-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400153
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-PA3-240-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 32667 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

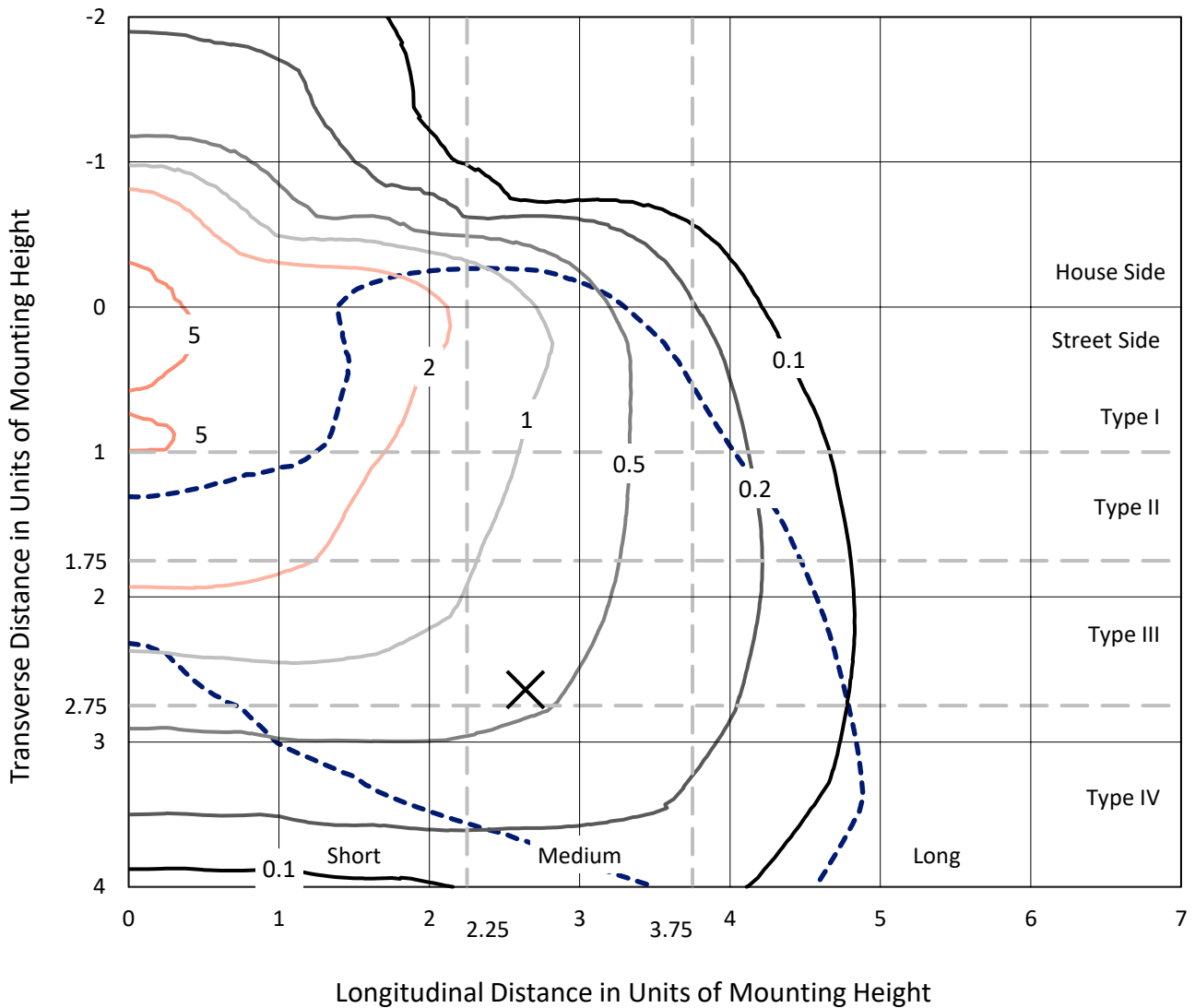
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

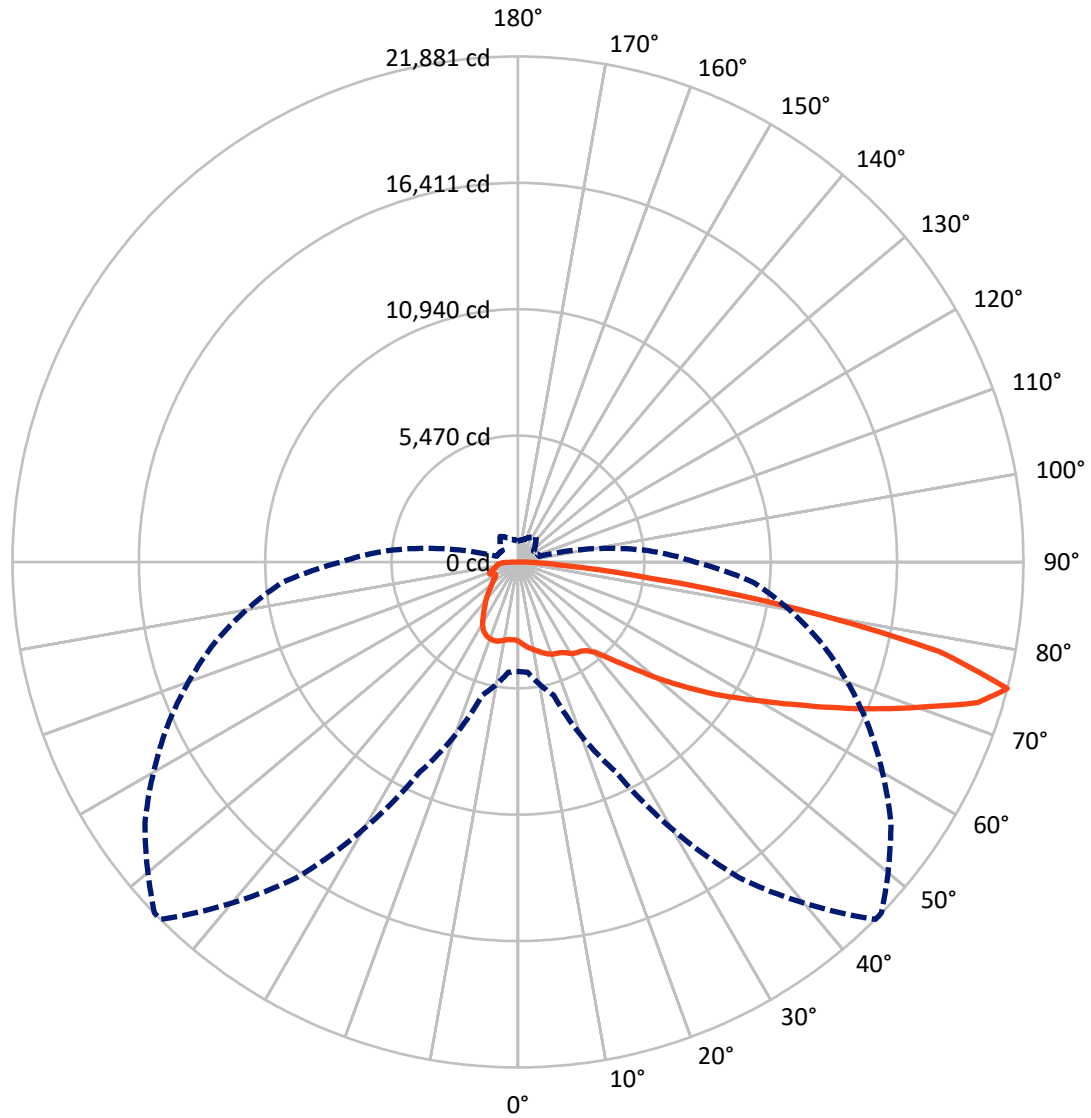
✕ Max cd
 - - - 1/2 Max cd



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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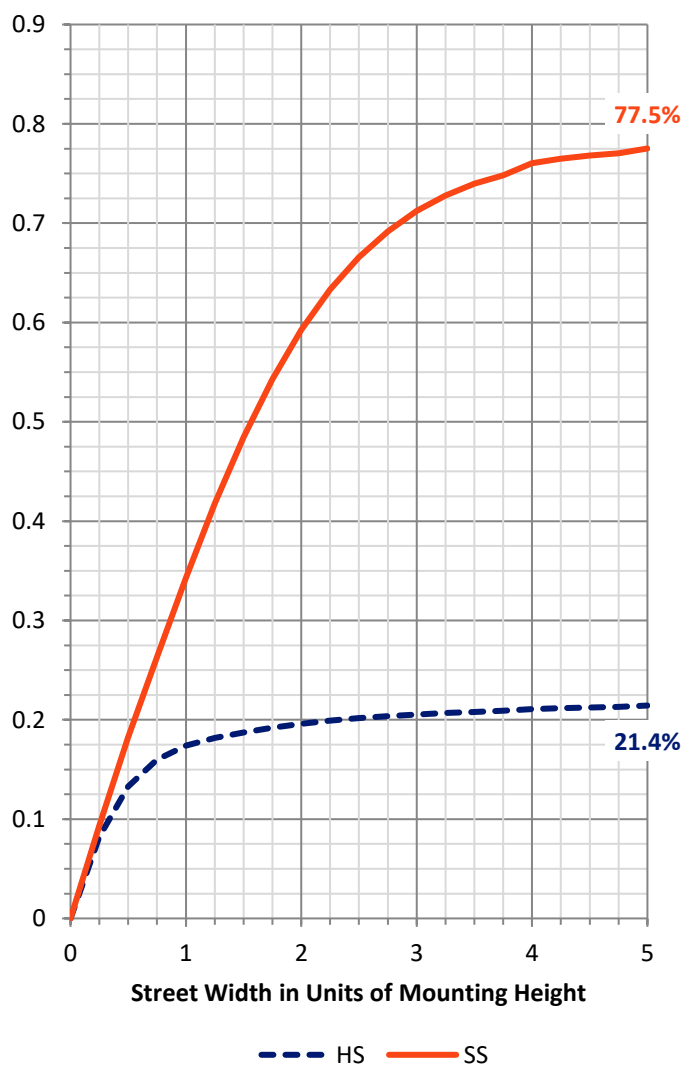
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7219.2	0.0	7219.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	25447.8	0.0	25447.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	32667.0	0.0	32667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	1.0
10°-20°	1079.8	3.3
20°-30°	1840.8	5.6
30°-40°	2579.2	7.9
40°-50°	3789.2	11.6
50°-60°	6030.6	18.5
60°-70°	8578.6	26.3
70°-80°	7182.8	22.0
80°-90°	1246.6	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°	32667.0	100.0
0°-180°	32667.0	100.0

Coefficient of Utilization

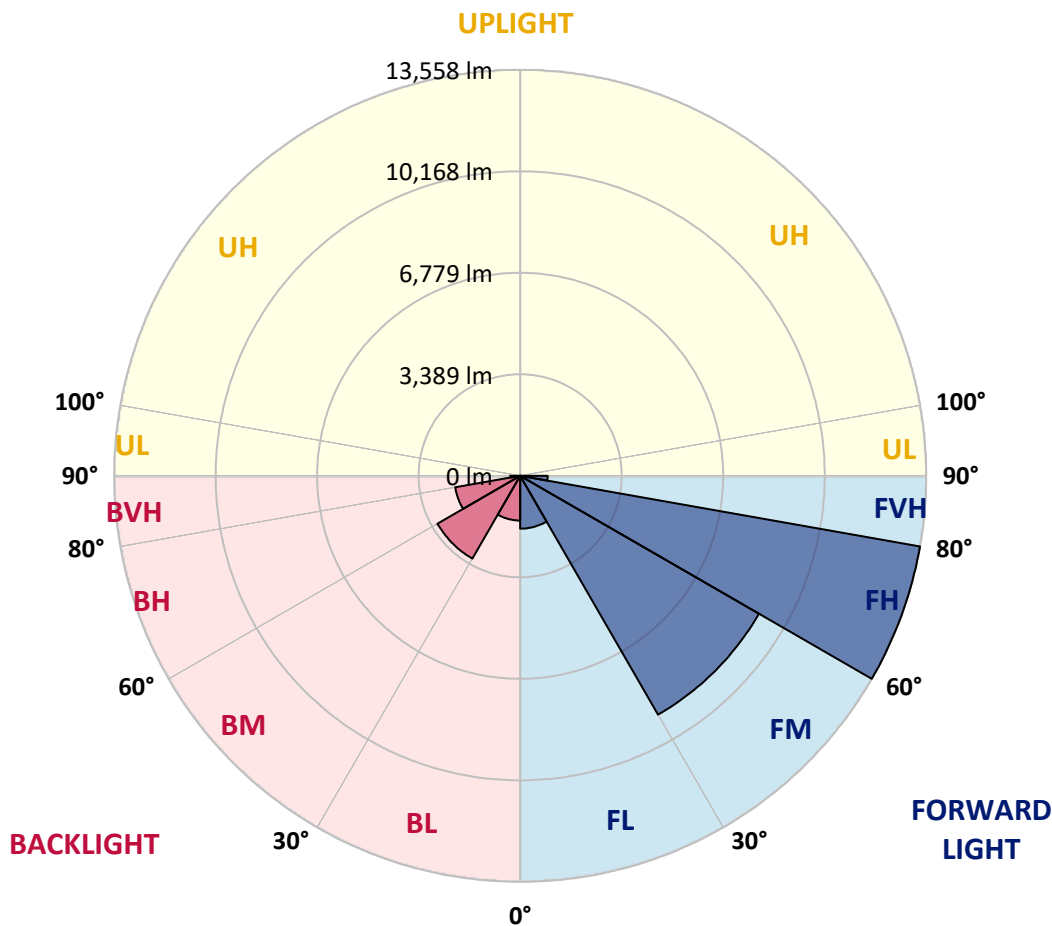


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.9	5.4			
FM (30°-60°)	9207.8	28.2			
FH (60°-80°)	13557.6	41.5			G5
FVH (80°-90°)	916.4	2.8			G5
BL (0°-30°)	1494.1	4.6	B3/2500		
BM (30°-60°)	3191.2	9.8	B3/5000		
BH (60°-80°)	2203.8	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°	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7
2.5°	3627.2	3609.7	3601.0	3601.0	3566.1	3544.2	3539.9	3509.3	3483.1	3456.9	3435.1
5°	3836.7	3823.6	3797.4	3775.6	3727.6	3666.5	3657.7	3592.2	3526.8	3465.7	3413.3
7.5°	4028.7	4002.5	3972.0	3928.3	3849.8	3766.8	3753.7	3662.1	3570.4	3478.8	3408.9
10°	4190.2	4164.0	4120.4	4059.3	3958.9	3858.5	3845.4	3749.4	3653.4	3544.2	3443.8
12.5°	4343.0	4321.2	4255.7	4172.8	4054.9	3963.3	3950.2	3867.2	3766.8	3644.6	3513.7
15°	4473.9	4452.1	4382.3	4286.3	4150.9	4081.1	4063.6	3985.1	3884.7	3753.7	3618.4
17.5°	4539.4	4539.4	4465.2	4360.5	4233.9	4181.5	4168.4	4072.4	3980.7	3854.1	3718.8
20°	4561.2	4570.0	4517.6	4391.0	4281.9	4260.1	4247.0	4168.4	4063.6	3941.4	3814.9
22.5°	4574.3	4591.8	4548.1	4404.1	4312.4	4299.3	4290.6	4238.2	4155.3	4037.5	3910.9
25°	4618.0	4618.0	4587.4	4425.9	4351.7	4347.4	4347.4	4316.8	4260.1	4159.7	4033.1
27.5°	4683.5	4679.1	4639.8	4473.9	4439.0	4452.1	4447.8	4443.4	4404.1	4303.7	4168.4
30°	4792.6	4792.6	4748.9	4570.0	4548.1	4604.9	4609.3	4618.0	4556.9	4399.7	4290.6
32.5°	4958.4	4941.0	4897.3	4666.0	4631.1	4683.5	4692.2	4687.8	4635.4	4487.0	4434.7
35°	5469.1	5429.8	5272.7	4879.9	4705.3	4735.8	4740.2	4762.0	4770.8	4652.9	4626.7
37.5°	6363.9	6311.5	6071.5	5386.2	4941.0	4866.8	4862.4	4919.2	4967.2	4862.4	4862.4
40°	7337.3	7293.6	7153.9	6259.2	5377.5	5133.0	5115.6	5167.9	5229.1	5154.9	5176.7
42.5°	8175.3	8210.2	8223.3	7184.5	6032.2	5630.6	5582.6	5508.4	5604.4	5539.0	5626.3
45°	8803.8	8786.4	9026.5	8131.7	6879.0	6254.8	6189.3	5988.5	6110.8	6106.4	6298.4
47.5°	9471.7	9441.1	9541.5	9022.1	7843.6	7018.6	6918.2	6621.4	6804.8	6931.3	7250.0
50°	10104.6	10113.3	10148.2	9724.8	8891.1	7948.3	7821.8	7424.6	7686.5	7952.7	8402.3
52.5°	10929.5	10868.4	10824.8	10545.4	10065.3	8917.3	8834.4	8380.5	8747.1	9061.4	9659.4
55°	11649.7	11610.4	11584.2	11571.1	11047.4	9986.7	9899.4	9428.0	9956.2	10178.8	11060.5
57.5°	12417.9	12396.1	12535.8	12758.4	12548.9	11073.6	10981.9	10527.9	11117.2	11274.3	12579.4
60°	12981.0	12994.1	13378.2	13945.6	13801.6	12252.1	12142.9	11741.4	12247.7	12387.4	14098.4
62.5°	12985.3	13116.3	14006.7	15023.7	15189.6	13609.5	13482.9	13046.5	13408.7	13408.7	15460.2
65°	11745.7	11894.1	13893.2	15290.0	16595.1	15224.5	15102.3	14417.0	14552.3	14369.0	16739.1
67.5°	10510.5	10685.1	12566.3	15311.8	17581.5	16953.0	16808.9	15787.6	15556.2	15093.6	17633.9
70°	9689.9	9812.1	11383.5	15028.1	18175.1	18760.0	18650.9	17088.3	16346.3	15700.3	17446.2
72.5°	8157.9	8114.2	9615.7	13679.4	18506.8	20811.5	20719.8	18502.5	17031.5	15412.2	14879.7
75°	4735.8	4788.2	5966.7	10021.6	16682.3	21880.9	21872.1	19711.5	16730.4	13613.9	10253.0
77.5°	1366.2	1405.5	1959.8	4404.1	10549.8	18664.0	19262.0	18026.7	14142.0	9703.0	5316.4
80°	598.0	628.5	851.1	1466.6	4543.8	12190.9	12714.7	12190.9	8528.9	4452.1	2086.4
82.5°	353.6	375.4	554.3	907.9	2178.0	5800.8	6507.9	5683.0	3679.5	1890.0	864.2
85°	200.8	209.5	318.6	576.2	1370.6	2029.6	2278.4	2134.4	1793.9	1073.7	453.9
87.5°	91.7	96.0	157.1	270.6	768.2	685.3	711.5	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°	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7	3430.7
2.5°	3426.4	3413.3	3387.1	3378.4	3365.3	3369.6	3374.0	3374.0	3378.4	3365.3	3365.3
5°	3391.5	3369.6	3343.5	3343.5	3343.5	3378.4	3408.9	3426.4	3435.1	3435.1	3426.4
7.5°	3378.4	3352.2	3321.6	3330.4	3339.1	3382.7	3439.5	3496.2	3513.7	3513.7	3505.0
10°	3404.6	3378.4	3356.5	3369.6	3391.5	3426.4	3470.0	3522.4	3566.1	3570.4	3566.1
12.5°	3465.7	3435.1	3413.3	3439.5	3465.7	3487.5	3509.3	3531.1	3587.9	3596.6	3596.6
15°	3566.1	3535.5	3509.3	3531.1	3539.9	3539.9	3539.9	3539.9	3596.6	3605.3	3605.3
17.5°	3666.5	3640.3	3614.1	3618.4	3592.2	3557.3	3544.2	3539.9	3570.4	3596.6	3601.0
20°	3762.5	3740.7	3714.5	3670.8	3605.3	3539.9	3518.0	3518.0	3535.5	3574.8	3574.8
22.5°	3867.2	3841.0	3797.4	3697.0	3587.9	3496.2	3474.4	3487.5	3509.3	3561.7	3557.3
25°	3985.1	3950.2	3876.0	3688.3	3531.1	3422.0	3426.4	3465.7	3505.0	3561.7	3561.7
27.5°	4116.0	4068.0	3919.6	3618.4	3404.6	3299.8	3339.1	3430.7	3487.5	3548.6	3557.3
30°	4260.1	4216.4	3954.5	3496.2	3199.4	3103.4	3199.4	3347.8	3435.1	3491.9	3505.0
32.5°	4434.7	4399.7	3985.1	3339.1	2933.2	2850.2	2989.9	3173.2	3312.9	3378.4	3391.5
35°	4652.9	4618.0	4024.4	3160.1	2684.4	2597.1	2723.6	2911.3	3094.7	3177.6	3203.8
37.5°	4936.6	4884.2	4059.3	2968.1	2474.9	2374.5	2435.6	2605.8	2771.7	2885.1	2915.7
40°	5298.9	5216.0	4089.8	2749.8	2291.5	2178.0	2199.9	2282.8	2378.8	2479.2	2518.5
42.5°	5809.6	5643.7	4094.2	2518.5	2103.8	1999.1	1990.4	2016.5	2016.5	2016.5	2029.6
45°	6521.0	6206.8	4102.9	2300.3	1911.8	1802.7	1776.5	1767.8	1702.3	1575.7	1567.0
47.5°	7420.2	6944.4	4142.2	2116.9	1711.0	1615.0	1580.1	1545.1	1422.9	1292.0	1265.8
50°	8572.5	7799.9	4220.8	1942.3	1540.8	1475.3	1431.7	1348.7	1213.4	1113.0	1086.8
52.5°	9899.4	8816.9	4295.0	1759.0	1414.2	1370.6	1318.2	1217.8	1073.7	1012.6	1003.9
55°	11422.7	9951.8	4443.4	1597.5	1305.1	1274.5	1226.5	1130.5	1021.4	977.7	973.4
57.5°	12981.0	11222.0	4652.9	1453.5	1200.3	1182.9	1182.9	1099.9	1030.1	1012.6	1012.6
60°	14482.5	12313.2	4491.4	1318.2	1104.3	1113.0	1196.0	1174.1	1121.8	1143.6	1156.7
62.5°	15647.9	12954.8	3644.6	1209.1	1034.5	1113.0	1326.9	1326.9	1265.8	1257.1	1257.1
65°	16145.5	12946.1	2562.2	1126.1	1008.3	1222.2	1479.7	1409.8	1248.3	1187.2	1174.1
67.5°	16018.9	12378.6	1767.8	1069.4	999.5	1335.6	1549.5	1353.1	1169.8	1117.4	1078.1
70°	14905.9	11178.3	1361.8	1017.0	986.4	1287.6	1527.7	1287.6	1108.7	1060.7	1025.7
72.5°	12025.1	8965.3	1130.5	964.6	934.1	1191.6	1453.5	1226.5	1060.7	1008.3	973.4
75°	7669.0	5639.3	955.9	894.8	833.7	1069.4	1353.1	1165.4	1008.3	938.4	912.2
77.5°	3688.3	2431.2	833.7	811.9	750.7	990.8	1252.7	1086.8	938.4	881.7	864.2
80°	1492.8	1113.0	724.6	728.9	689.6	942.8	1182.9	1012.6	868.6	807.5	776.9
82.5°	776.9	646.0	611.1	628.5	628.5	899.2	1130.5	951.5	807.5	781.3	680.9
85°	419.0	401.6	471.4	506.3	545.6	811.9	1051.9	886.1	737.7	632.9	611.1
87.5°	205.1	261.9	266.3	305.5	379.7	650.4	886.1	742.0	615.4	510.7	502.0
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)