

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: P400450

Luminaire Tested: **ARCH-L-PA3-280-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400450
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-PA3-280-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35669 lumens
Efficiency: N/A
Efficacy: 127.8 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

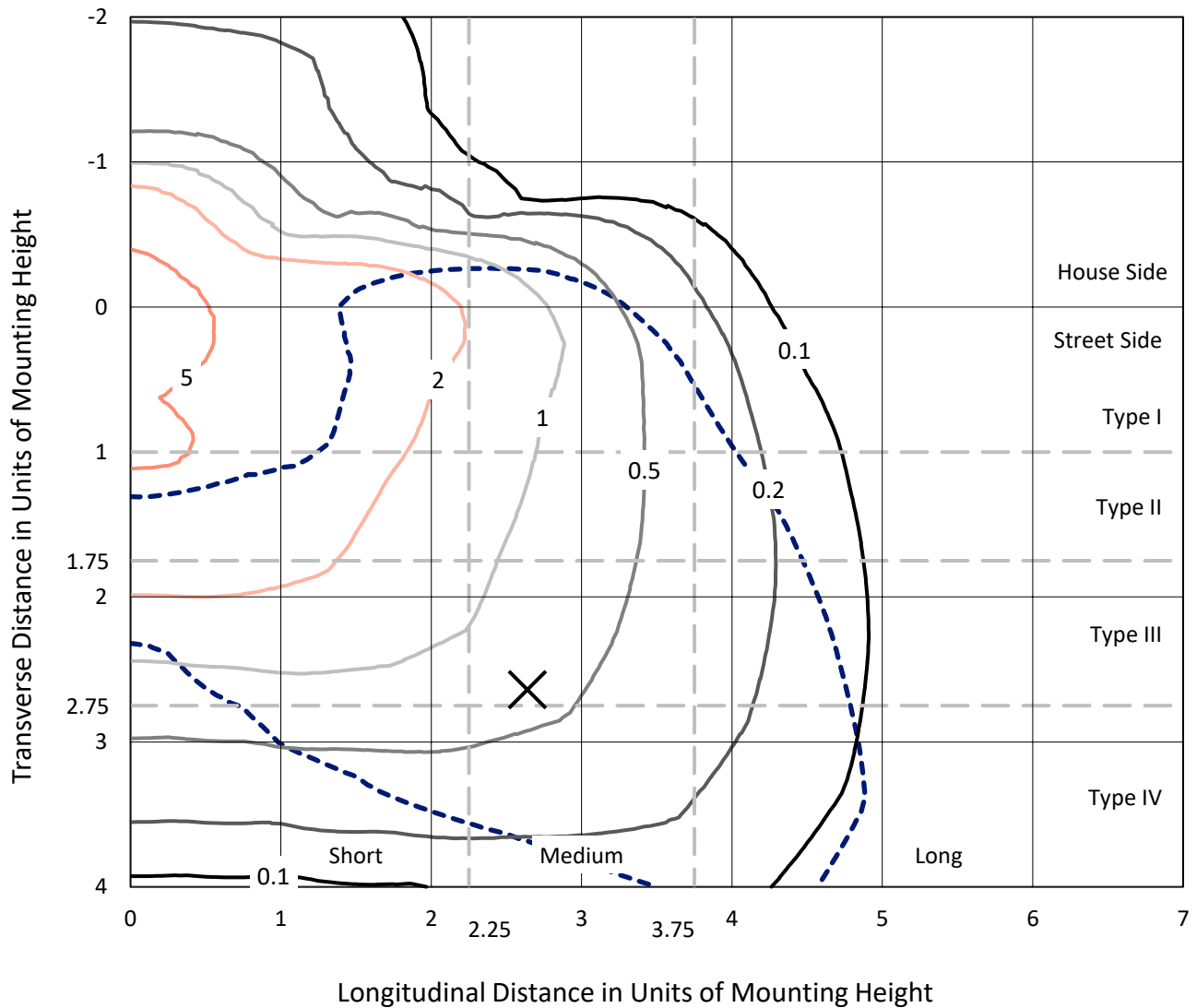
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

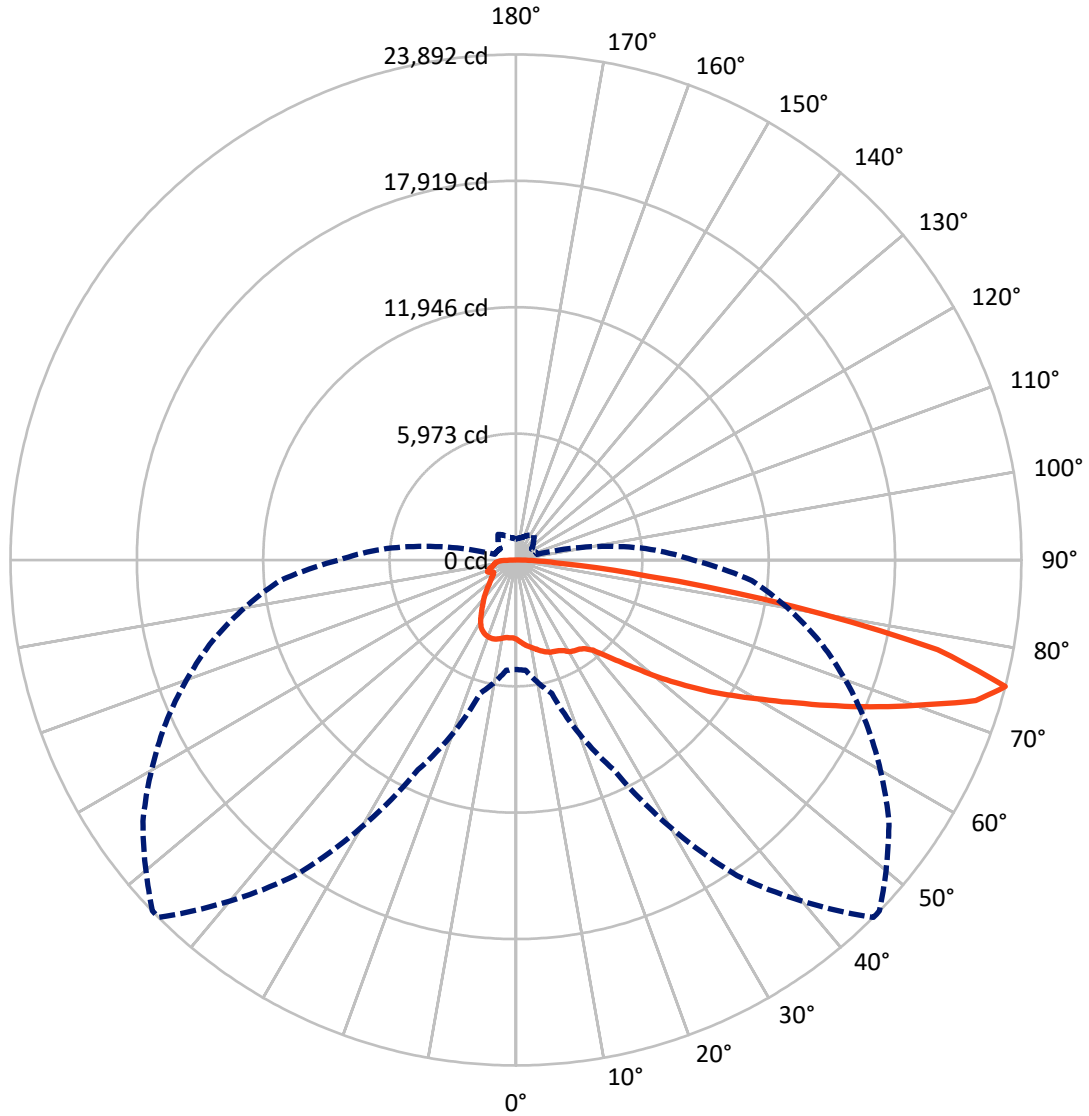
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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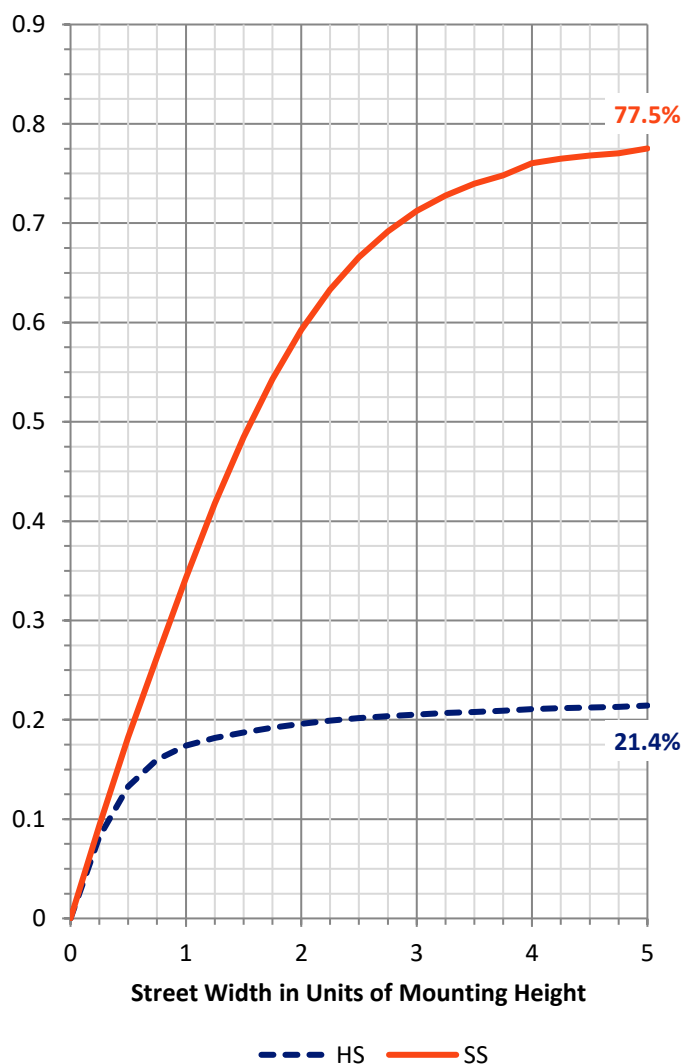
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7882.7	0.0	7882.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	27786.3	0.0	27786.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	35669.0	0.0	35669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	1.0
10°-20°	1179.0	3.3
20°-30°	2010.0	5.6
30°-40°	2816.2	7.9
40°-50°	4137.5	11.6
50°-60°	6584.8	18.5
60°-70°	9366.9	26.3
70°-80°	7842.9	22.0
80°-90°	1361.1	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°	35669.0	100.0
0°-180°	35669.0	100.0

Coefficient of Utilization



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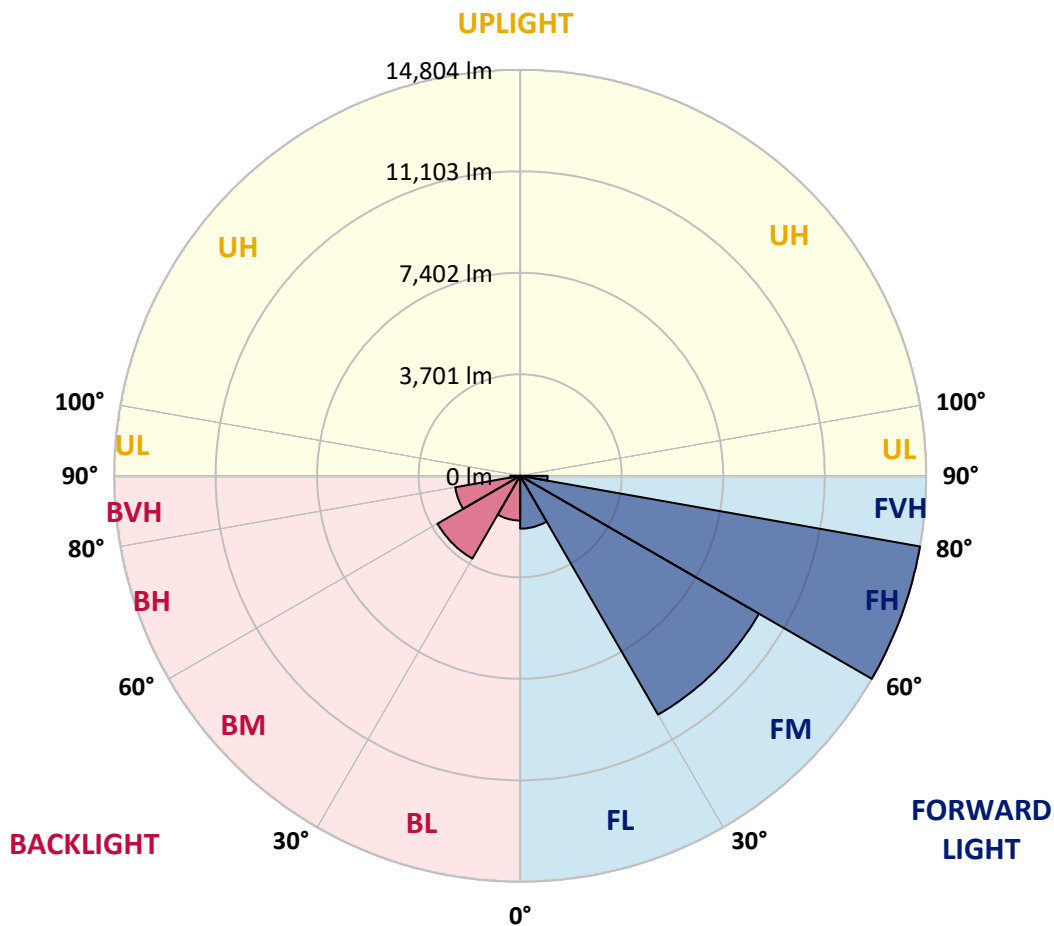
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.1	5.4			
FM (30°-60°)	10054.0	28.2			
FH (60°-80°)	14803.5	41.5			G5
FVH (80°-90°)	1000.7	2.8			G5
BL (0°-30°)	1631.4	4.6	B3/2500		
BM (30°-60°)	3484.5	9.8	B3/5000		
BH (60°-80°)	2406.3	6.7	B3/2500		G3/2500
BVH (80°-90°)	360.5	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°	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0
2.5°	3960.5	3941.4	3931.9	3931.9	3893.8	3869.9	3865.2	3831.8	3803.2	3774.6	3750.8
5°	4189.3	4175.0	4146.4	4122.5	4070.1	4003.4	3993.9	3922.4	3850.9	3784.2	3727.0
7.5°	4399.0	4370.4	4337.0	4289.3	4203.6	4113.0	4098.7	3998.6	3898.5	3798.5	3722.2
10°	4575.3	4546.7	4499.0	4432.3	4322.7	4213.1	4198.8	4093.9	3989.1	3869.9	3760.3
12.5°	4742.1	4718.3	4646.8	4556.2	4427.6	4327.5	4313.2	4222.6	4113.0	3979.6	3836.6
15°	4885.1	4861.3	4785.0	4680.1	4532.4	4456.1	4437.1	4351.3	4241.7	4098.7	3951.0
17.5°	4956.6	4956.6	4875.6	4761.2	4623.0	4565.8	4551.5	4446.6	4346.5	4208.3	4060.6
20°	4980.4	4989.9	4932.7	4794.5	4675.4	4651.6	4637.3	4551.5	4437.1	4303.6	4165.4
22.5°	4994.7	5013.8	4966.1	4808.8	4708.7	4694.4	4684.9	4627.7	4537.2	4408.5	4270.3
25°	5042.4	5042.4	5009.0	4832.7	4751.6	4746.9	4746.9	4713.5	4651.6	4541.9	4403.7
27.5°	5113.8	5109.1	5066.2	4885.1	4847.0	4861.3	4856.5	4851.7	4808.8	4699.2	4551.5
30°	5233.0	5233.0	5185.3	4989.9	4966.1	5028.1	5032.8	5042.4	4975.6	4804.1	4684.9
32.5°	5414.1	5395.0	5347.4	5094.8	5056.7	5113.8	5123.4	5118.6	5061.4	4899.4	4842.2
35°	5971.7	5928.8	5757.3	5328.3	5137.7	5171.0	5175.8	5199.6	5209.2	5080.5	5051.9
37.5°	6948.7	6891.5	6629.4	5881.2	5395.0	5314.0	5309.3	5371.2	5423.6	5309.3	5309.3
40°	8011.5	7963.9	7811.4	6834.4	5871.6	5604.7	5585.7	5642.9	5709.6	5628.6	5652.4
42.5°	8926.6	8964.7	8979.0	7844.7	6586.5	6148.1	6095.6	6014.6	6119.5	6048.0	6143.3
45°	9612.9	9593.8	9856.0	8878.9	7511.1	6829.6	6758.1	6538.9	6672.3	6667.5	6877.2
47.5°	10342.1	10308.7	10418.3	9851.2	8564.4	7663.6	7554.0	7229.9	7430.1	7568.3	7916.2
50°	11033.1	11042.7	11080.8	10618.5	9708.2	8678.8	8540.6	8106.9	8392.8	8683.5	9174.4
52.5°	11933.9	11867.2	11819.5	11514.5	10990.2	9736.8	9646.3	9150.6	9550.9	9894.1	10547.0
55°	12720.3	12677.4	12648.8	12634.5	12062.6	10904.5	10809.1	10294.4	10871.1	11114.2	12076.9
57.5°	13559.1	13535.3	13687.8	13930.8	13702.1	12091.2	11991.1	11495.4	12138.8	12310.4	13735.4
60°	14173.9	14188.2	14607.6	15227.2	15069.9	13378.0	13258.8	12820.4	13373.2	13525.7	15394.0
62.5°	14178.7	14321.6	15293.9	16404.4	16585.5	14860.2	14722.0	14245.4	14641.0	14641.0	16880.9
65°	12825.1	12987.2	15170.0	16695.1	18120.1	16623.6	16490.1	15741.9	15889.6	15689.5	18277.4
67.5°	11476.4	11667.0	13721.1	16718.9	19197.2	18510.9	18353.6	17238.4	16985.8	16480.6	19254.4
70°	10580.4	10713.8	12429.6	16409.1	19845.4	20484.0	20364.8	18658.6	17848.4	17143.1	19049.4
72.5°	8907.5	8859.9	10499.4	14936.4	20207.6	22724.0	22623.9	20202.8	18596.7	16828.5	16247.1
75°	5171.0	5228.2	6515.0	10942.6	18215.4	23891.6	23882.1	21523.0	18267.8	14865.0	11195.2
77.5°	1491.7	1534.6	2139.9	4808.8	11519.3	20379.1	21032.1	19683.3	15441.6	10594.7	5804.9
80°	652.9	686.3	929.4	1601.4	4961.3	13311.3	13883.2	13311.3	9312.6	4861.3	2278.1
82.5°	386.0	409.9	605.3	991.3	2378.2	6333.9	7106.0	6205.2	4017.7	2063.7	943.7
85°	219.2	228.8	347.9	629.1	1496.5	2216.2	2487.8	2330.5	1958.8	1172.4	495.7
87.5°	100.1	104.9	171.6	295.5	838.8	748.3	776.8	1029.4	1134.3	714.9	247.8
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°	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0	3746.0
2.5°	3741.3	3727.0	3698.4	3688.8	3674.5	3679.3	3684.1	3684.1	3688.8	3674.5	3674.5
5°	3703.1	3679.3	3650.7	3650.7	3650.7	3688.8	3722.2	3741.3	3750.8	3750.8	3741.3
7.5°	3688.8	3660.2	3626.9	3636.4	3645.9	3693.6	3755.6	3817.5	3836.6	3836.6	3827.0
10°	3717.4	3688.8	3665.0	3679.3	3703.1	3741.3	3788.9	3846.1	3893.8	3898.5	3893.8
12.5°	3784.2	3750.8	3727.0	3755.6	3784.2	3808.0	3831.8	3855.6	3917.6	3927.1	3927.1
15°	3893.8	3860.4	3831.8	3855.6	3865.2	3865.2	3865.2	3865.2	3927.1	3936.7	3936.7
17.5°	4003.4	3974.8	3946.2	3951.0	3922.4	3884.2	3869.9	3865.2	3898.5	3927.1	3931.9
20°	4108.2	4084.4	4055.8	4008.2	3936.7	3865.2	3841.3	3841.3	3860.4	3903.3	3903.3
22.5°	4222.6	4194.0	4146.4	4036.7	3917.6	3817.5	3793.7	3808.0	3831.8	3889.0	3884.2
25°	4351.3	4313.2	4232.2	4027.2	3855.6	3736.5	3741.3	3784.2	3827.0	3889.0	3889.0
27.5°	4494.3	4441.9	4279.8	3951.0	3717.4	3603.0	3645.9	3746.0	3808.0	3874.7	3884.2
30°	4651.6	4603.9	4317.9	3817.5	3493.4	3388.6	3493.4	3655.5	3750.8	3812.7	3827.0
32.5°	4842.2	4804.1	4351.3	3645.9	3202.7	3112.2	3264.7	3464.8	3617.3	3688.8	3703.1
35°	5080.5	5042.4	4394.2	3450.5	2931.1	2835.7	2973.9	3178.9	3379.0	3469.6	3498.2
37.5°	5390.3	5333.1	4432.3	3240.8	2702.3	2592.7	2659.4	2845.3	3026.4	3150.3	3183.6
40°	5785.8	5695.3	4465.7	3002.5	2502.1	2378.2	2402.0	2492.6	2597.4	2707.1	2749.9
42.5°	6343.5	6162.4	4470.4	2749.9	2297.2	2182.8	2173.3	2201.9	2201.9	2201.9	2216.2
45°	7120.3	6777.2	4480.0	2511.6	2087.5	1968.3	1939.7	1930.2	1858.7	1720.5	1711.0
47.5°	8102.1	7582.6	4522.9	2311.5	1868.2	1763.4	1725.3	1687.1	1553.7	1410.7	1382.1
50°	9360.3	8516.7	4608.7	2120.8	1682.4	1610.9	1563.2	1472.7	1324.9	1215.3	1186.7
52.5°	10809.1	9627.2	4689.7	1920.7	1544.2	1496.5	1439.3	1329.7	1172.4	1105.7	1096.2
55°	12472.5	10866.3	4851.7	1744.3	1425.0	1391.7	1339.2	1234.4	1115.2	1067.6	1062.8
57.5°	14173.9	12253.2	5080.5	1587.1	1310.6	1291.6	1291.6	1201.0	1124.8	1105.7	1105.7
60°	15813.4	13444.7	4904.1	1439.3	1205.8	1215.3	1305.9	1282.0	1224.8	1248.7	1263.0
62.5°	17085.9	14145.3	3979.6	1320.2	1129.5	1215.3	1448.8	1448.8	1382.1	1372.6	1372.6
65°	17629.2	14135.8	2797.6	1229.6	1100.9	1334.5	1615.7	1539.4	1363.1	1296.3	1282.0
67.5°	17491.0	13516.2	1930.2	1167.7	1091.4	1458.4	1691.9	1477.4	1277.3	1220.1	1177.2
70°	16275.7	12205.6	1487.0	1110.5	1077.1	1406.0	1668.1	1406.0	1210.5	1158.1	1120.0
72.5°	13130.2	9789.2	1234.4	1053.3	1019.9	1301.1	1587.1	1339.2	1158.1	1100.9	1062.8
75°	8373.7	6157.6	1043.7	977.0	910.3	1167.7	1477.4	1272.5	1100.9	1024.7	996.1
77.5°	4027.2	2654.6	910.3	886.5	819.7	1081.9	1367.8	1186.7	1024.7	962.7	943.7
80°	1630.0	1215.3	791.1	795.9	753.0	1029.4	1291.6	1105.7	948.4	881.7	848.3
82.5°	848.3	705.4	667.2	686.3	686.3	981.8	1234.4	1039.0	881.7	853.1	743.5
85°	457.5	438.5	514.7	552.8	595.7	886.5	1148.6	967.5	805.4	691.1	667.2
87.5°	224.0	286.0	290.7	333.6	414.6	710.1	967.5	810.2	672.0	557.6	548.1
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)