

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: P400000

Luminaire Tested: **ARCH-L-PA3-220-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400000
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-PA3-220-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28072 lumens
Efficiency: N/A
Efficacy: 126.5 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

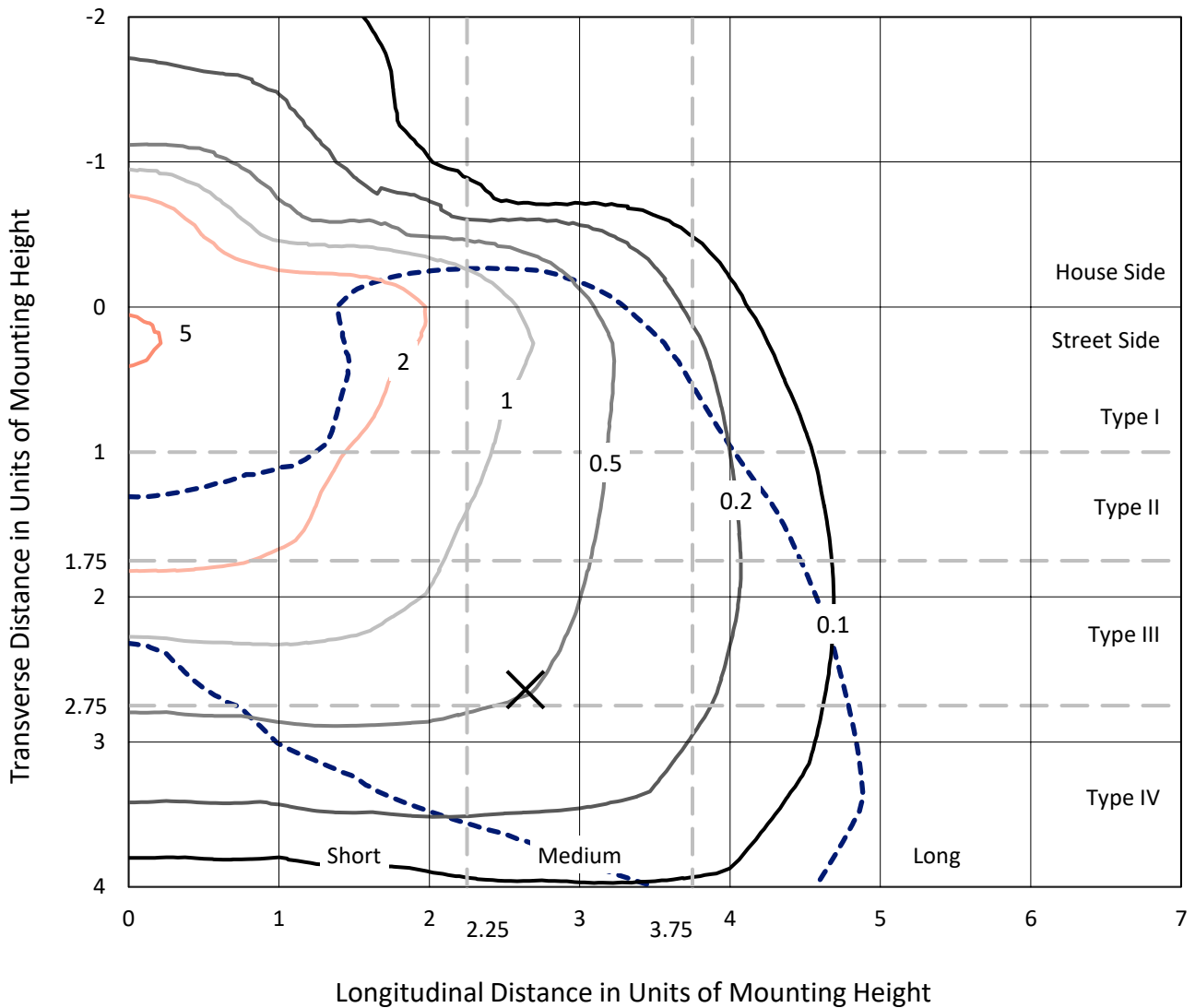
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

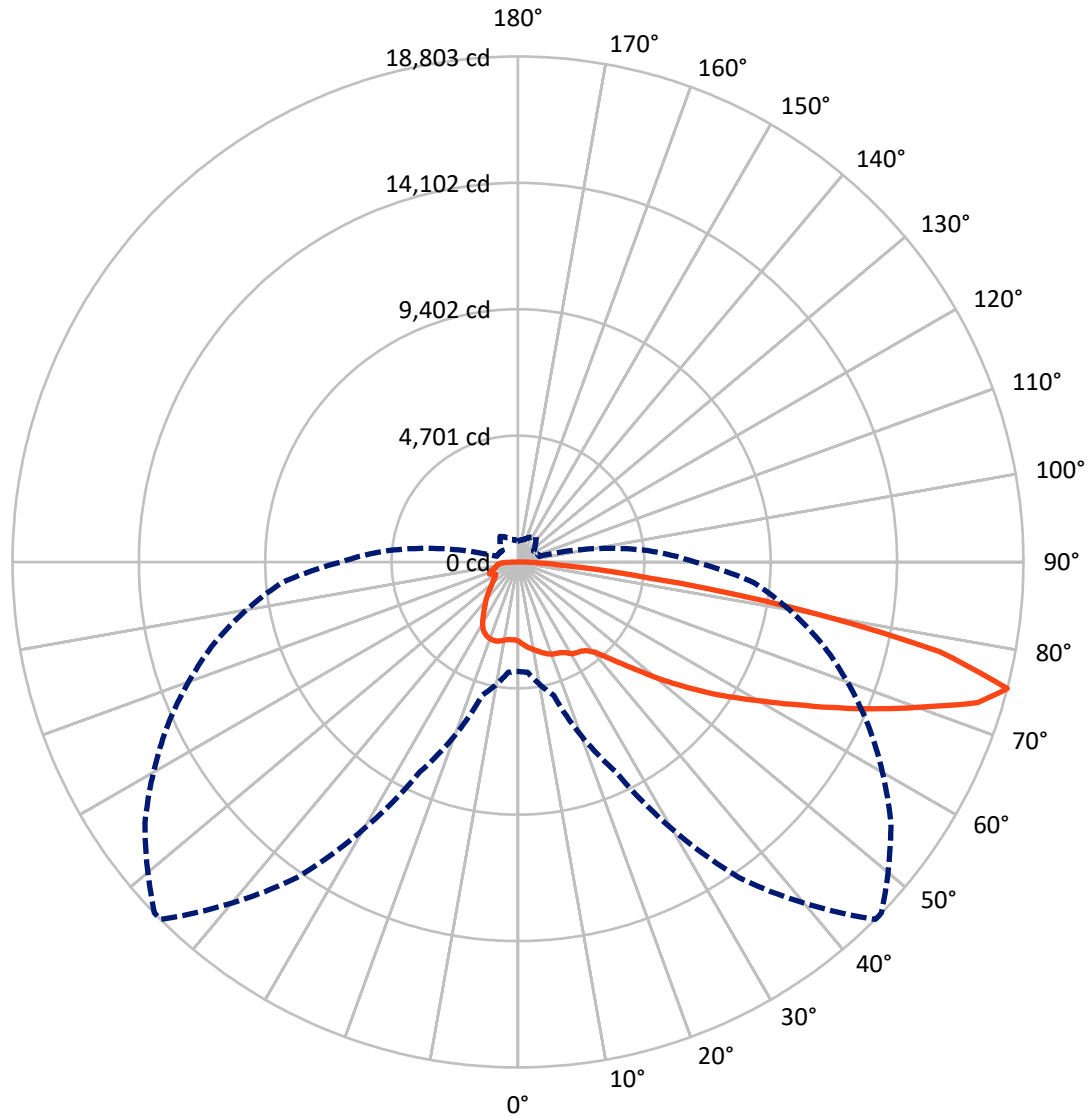
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - 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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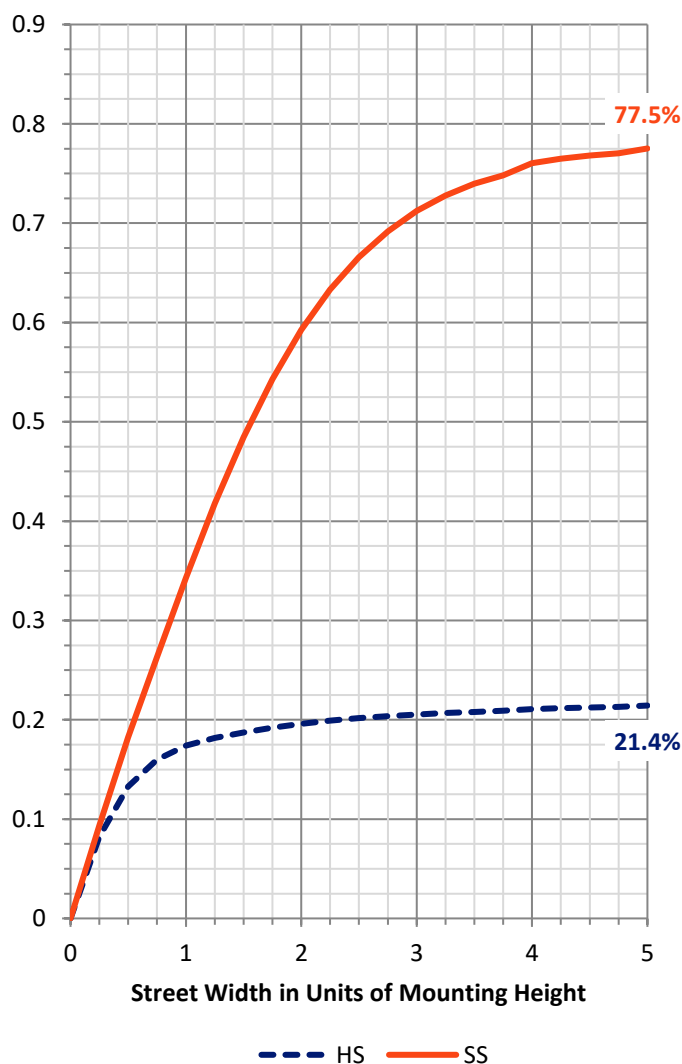
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6203.8	0.0	6203.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	21868.2	0.0	21868.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	28072.0	0.0	28072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	1.0
10°-20°	927.9	3.3
20°-30°	1581.9	5.6
30°-40°	2216.4	7.9
40°-50°	3256.2	11.6
50°-60°	5182.3	18.5
60°-70°	7371.9	26.3
70°-80°	6172.5	22.0
80°-90°	1071.2	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°	28072.0	100.0
0°-180°	28072.0	100.0

Coefficient of Utilization

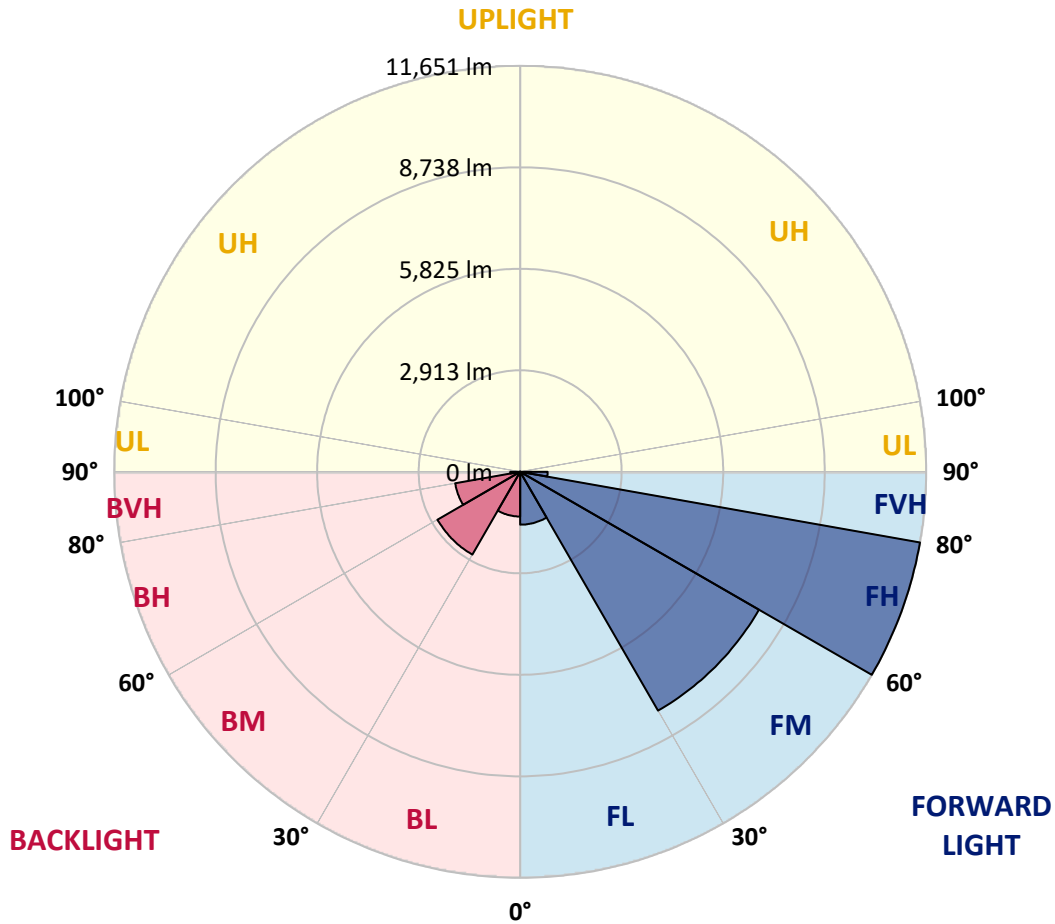


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1517.5	5.4			
FM (30°-60°)	7912.6	28.2			
FH (60°-80°)	11650.6	41.5			G4/12000
FVH (80°-90°)	787.5	2.8			G5
BL (0°-30°)	1283.9	4.6	B3/2500		
BM (30°-60°)	2742.4	9.8	B3/5000		
BH (60°-80°)	1893.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	283.7	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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	3117.0	3102.0	3094.5	3094.5	3064.5	3045.7	3041.9	3015.7	2993.2	2970.7	2951.9
5°	3297.0	3285.8	3263.2	3244.5	3203.2	3150.7	3143.2	3087.0	3030.7	2978.2	2933.2
7.5°	3462.0	3439.5	3413.3	3375.8	3308.3	3237.0	3225.7	3147.0	3068.2	2989.4	2929.4
10°	3600.8	3578.3	3540.8	3488.3	3402.0	3315.8	3304.5	3222.0	3139.5	3045.7	2959.4
12.5°	3732.1	3713.3	3657.1	3585.8	3484.5	3405.8	3394.5	3323.3	3237.0	3132.0	3019.4
15°	3844.6	3825.9	3765.9	3683.3	3567.1	3507.1	3492.0	3424.5	3338.3	3225.7	3109.5
17.5°	3900.9	3900.9	3837.1	3747.1	3638.3	3593.3	3582.1	3499.6	3420.8	3312.0	3195.7
20°	3919.6	3927.1	3882.1	3773.4	3679.6	3660.8	3649.6	3582.1	3492.0	3387.0	3278.2
22.5°	3930.9	3945.9	3908.4	3784.6	3705.8	3694.6	3687.1	3642.1	3570.8	3469.5	3360.8
25°	3968.4	3968.4	3942.2	3803.4	3739.6	3735.9	3735.9	3709.6	3660.8	3574.6	3465.8
27.5°	4024.7	4020.9	3987.2	3844.6	3814.6	3825.9	3822.1	3818.4	3784.6	3698.3	3582.1
30°	4118.4	4118.4	4080.9	3927.1	3908.4	3957.2	3960.9	3968.4	3915.9	3780.9	3687.1
32.5°	4261.0	4246.0	4208.5	4009.7	3979.7	4024.7	4032.2	4028.4	3983.4	3855.9	3810.9
35°	4699.8	4666.1	4531.0	4193.5	4043.4	4069.7	4073.4	4092.2	4099.7	3998.4	3975.9
37.5°	5468.8	5423.7	5217.4	4628.6	4246.0	4182.2	4178.5	4227.2	4268.5	4178.5	4178.5
40°	6305.2	6267.7	6147.7	5378.7	4621.1	4411.0	4396.0	4441.0	4493.5	4429.8	4448.5
42.5°	7025.4	7055.4	7066.6	6173.9	5183.7	4838.6	4797.3	4733.6	4816.1	4759.8	4834.9
45°	7565.5	7550.5	7756.8	6987.8	5911.4	5375.0	5318.7	5146.2	5251.2	5247.5	5412.5
47.5°	8139.4	8113.1	8199.4	7753.0	6740.3	6031.4	5945.1	5690.1	5847.6	5956.4	6230.2
50°	8683.2	8690.7	8720.7	8356.9	7640.5	6830.3	6721.5	6380.2	6605.3	6834.1	7220.4
52.5°	9392.1	9339.6	9302.1	9062.1	8649.5	7663.0	7591.7	7201.6	7516.7	7786.8	8300.6
55°	10011.0	9977.3	9954.8	9943.5	9493.4	8582.0	8506.9	8101.9	8555.7	8747.0	9504.7
57.5°	10671.2	10652.4	10772.5	10963.8	10783.7	9515.9	9437.2	9047.1	9553.4	9688.5	10810.0
60°	11155.1	11166.3	11496.4	11984.0	11860.2	10528.7	10434.9	10089.8	10524.9	10644.9	12115.3
62.5°	11158.8	11271.3	12036.5	12910.5	13053.0	11695.2	11586.4	11211.3	11522.6	11522.6	13285.5
65°	10093.6	10221.1	11939.0	13139.3	14260.8	13083.0	12978.0	12389.1	12505.4	12347.8	14384.5
67.5°	9032.1	9182.1	10798.7	13158.0	15108.5	14568.3	14444.6	13566.9	13368.1	12970.5	15153.5
70°	8326.9	8431.9	9782.2	12914.2	15618.6	16121.2	16027.4	14684.6	14047.0	13491.8	14992.2
72.5°	7010.4	6972.8	8263.1	11755.2	15903.6	17884.1	17805.3	15899.9	14635.8	13244.3	12786.7
75°	4069.7	4114.7	5127.4	8612.0	14335.8	18803.1	18795.5	16938.9	14377.0	11698.9	8810.8
77.5°	1174.0	1207.8	1684.1	3784.6	9065.8	16038.7	16552.5	15491.0	12152.8	8338.2	4568.5
80°	513.9	540.1	731.4	1260.3	3904.6	10476.1	10926.2	10476.1	7329.2	3825.9	1792.9
82.5°	303.8	322.6	476.4	780.2	1871.7	4984.9	5592.5	4883.6	3162.0	1624.1	742.7
85°	172.5	180.0	273.8	495.1	1177.8	1744.1	1957.9	1834.2	1541.6	922.7	390.1
87.5°	78.8	82.5	135.0	232.6	660.2	588.9	611.4	810.2	892.7	562.6	195.0
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°	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2	2948.2
2.5°	2944.4	2933.2	2910.7	2903.2	2891.9	2895.7	2899.4	2899.4	2903.2	2891.9	2891.9
5°	2914.4	2895.7	2873.2	2873.2	2873.2	2903.2	2929.4	2944.4	2951.9	2951.9	2944.4
7.5°	2903.2	2880.7	2854.4	2861.9	2869.4	2906.9	2955.7	3004.4	3019.4	3019.4	3011.9
10°	2925.7	2903.2	2884.4	2895.7	2914.4	2944.4	2981.9	3026.9	3064.5	3068.2	3064.5
12.5°	2978.2	2951.9	2933.2	2955.7	2978.2	2996.9	3015.7	3034.4	3083.2	3090.7	3090.7
15°	3064.5	3038.2	3015.7	3034.4	3041.9	3041.9	3041.9	3041.9	3090.7	3098.2	3098.2
17.5°	3150.7	3128.2	3105.7	3109.5	3087.0	3056.9	3045.7	3041.9	3068.2	3090.7	3094.5
20°	3233.2	3214.5	3192.0	3154.5	3098.2	3041.9	3023.2	3023.2	3038.2	3072.0	3072.0
22.5°	3323.3	3300.8	3263.2	3177.0	3083.2	3004.4	2985.7	2996.9	3015.7	3060.7	3056.9
25°	3424.5	3394.5	3330.8	3169.5	3034.4	2940.7	2944.4	2978.2	3011.9	3060.7	3060.7
27.5°	3537.1	3495.8	3368.3	3109.5	2925.7	2835.6	2869.4	2948.2	2996.9	3049.4	3056.9
30°	3660.8	3623.3	3398.3	3004.4	2749.4	2666.9	2749.4	2876.9	2951.9	3000.7	3011.9
32.5°	3810.9	3780.9	3424.5	2869.4	2520.6	2449.3	2569.3	2726.9	2846.9	2903.2	2914.4
35°	3998.4	3968.4	3458.3	2715.6	2306.8	2231.8	2340.5	2501.8	2659.4	2730.6	2753.1
37.5°	4242.2	4197.2	3488.3	2550.6	2126.7	2040.5	2093.0	2239.3	2381.8	2479.3	2505.6
40°	4553.5	4482.3	3514.6	2363.0	1969.2	1871.7	1890.4	1961.7	2044.2	2130.5	2164.2
42.5°	4992.4	4849.9	3518.3	2164.2	1807.9	1717.9	1710.4	1732.9	1732.9	1732.9	1744.1
45°	5603.8	5333.7	3525.8	1976.7	1642.9	1549.1	1526.6	1519.1	1462.8	1354.1	1346.6
47.5°	6376.5	5967.6	3559.6	1819.2	1470.3	1387.8	1357.8	1327.8	1222.8	1110.3	1087.7
50°	7366.7	6702.8	3627.1	1669.1	1324.1	1267.8	1230.3	1159.0	1042.7	956.5	934.0
52.5°	8506.9	7576.7	3690.8	1511.6	1215.3	1177.8	1132.8	1046.5	922.7	870.2	862.7
55°	9816.0	8552.0	3818.4	1372.8	1121.5	1095.3	1054.0	971.5	877.7	840.2	836.4
57.5°	11155.1	9643.5	3998.4	1249.0	1031.5	1016.5	1016.5	945.2	885.2	870.2	870.2
60°	12445.3	10581.2	3859.6	1132.8	949.0	956.5	1027.7	1009.0	964.0	982.7	994.0
62.5°	13446.8	11132.5	3132.0	1039.0	889.0	956.5	1140.3	1140.3	1087.7	1080.2	1080.2
65°	13874.4	11125.0	2201.8	967.7	866.4	1050.2	1271.5	1211.5	1072.7	1020.2	1009.0
67.5°	13765.6	10637.4	1519.1	919.0	858.9	1147.8	1331.6	1162.8	1005.2	960.2	926.5
70°	12809.2	9605.9	1170.3	873.9	847.7	1106.5	1312.8	1106.5	952.7	911.5	881.5
72.5°	10333.6	7704.3	971.5	828.9	802.7	1024.0	1249.0	1054.0	911.5	866.4	836.4
75°	6590.3	4846.1	821.4	768.9	716.4	919.0	1162.8	1001.5	866.4	806.4	783.9
77.5°	3169.5	2089.2	716.4	697.7	645.1	851.4	1076.5	934.0	806.4	757.7	742.7
80°	1282.8	956.5	622.6	626.4	592.6	810.2	1016.5	870.2	746.4	693.9	667.7
82.5°	667.7	555.1	525.1	540.1	540.1	772.7	971.5	817.7	693.9	671.4	585.1
85°	360.1	345.1	405.1	435.1	468.9	697.7	904.0	761.4	633.9	543.9	525.1
87.5°	176.3	225.1	228.8	262.6	326.3	558.9	761.4	637.6	528.9	438.9	431.3
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)