

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: P237317

Luminaire Tested: **ARCH-L-AF72-240-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-240-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 26588.3 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

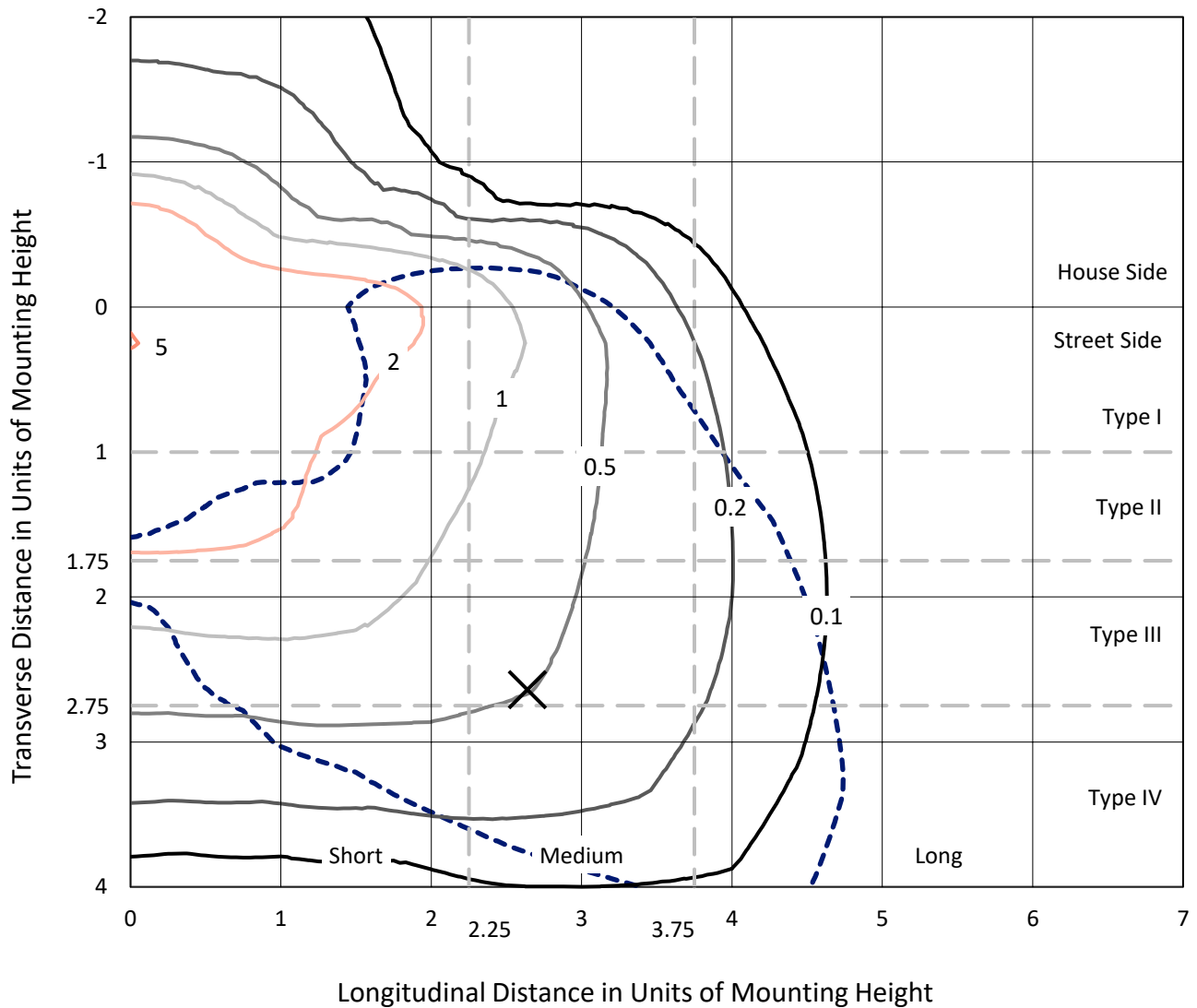
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

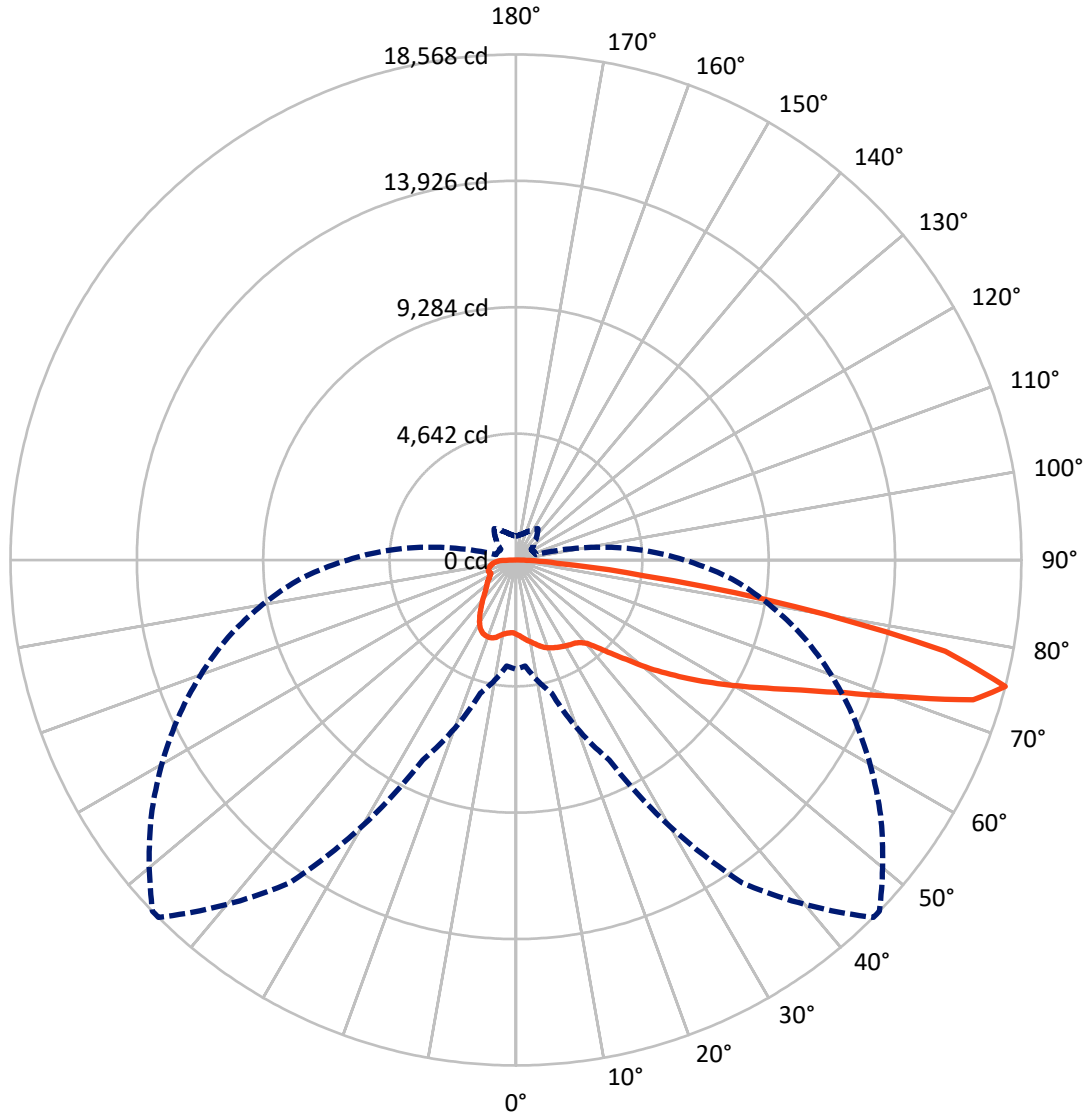
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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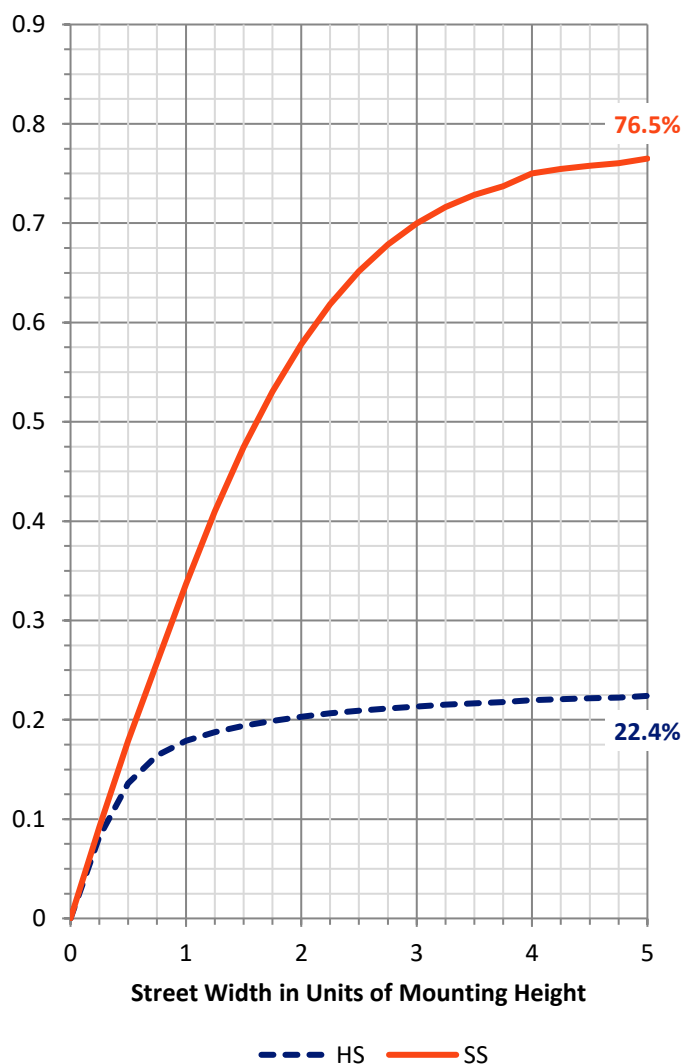
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6159.4	0.0	6159.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	20428.9	0.0	20428.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	26588.3	0.0	26588.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	1.0
10°-20°	875.3	3.3
20°-30°	1502.1	5.6
30°-40°	2100.8	7.9
40°-50°	3081.7	11.6
50°-60°	4800.4	18.1
60°-70°	6907.4	26.0
70°-80°	6017.1	22.6
80°-90°	1033.4	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°	26588.3	100.0
0°-180°	26588.3	100.0

Coefficient of Utilization

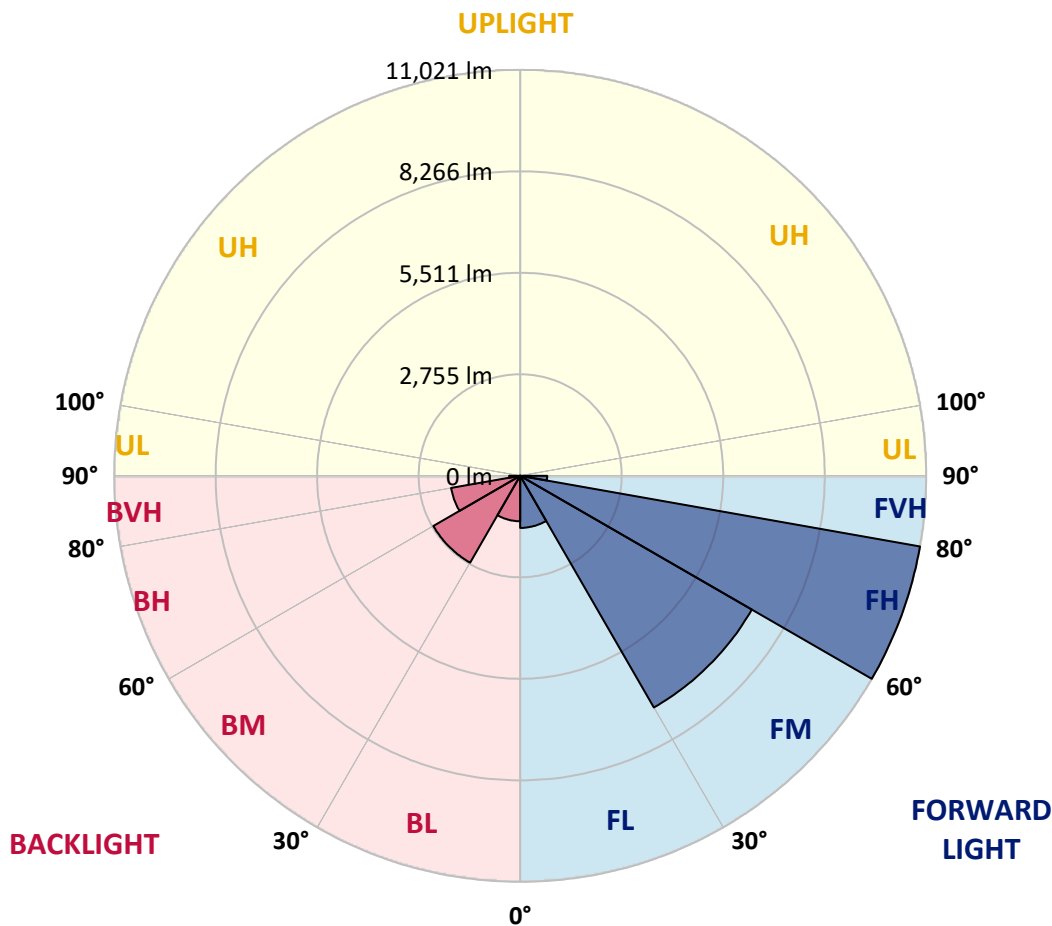


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.9	5.3			
FM (30°-60°)	7260.7	27.3			
FH (60°-80°)	11021.1	41.5			G4/12000
FVH (80°-90°)	733.2	2.8			G4/750
BL (0°-30°)	1233.6	4.6	B3/2500		
BM (30°-60°)	2722.1	10.2	B3/5000		
BH (60°-80°)	1903.5	7.2	B3/2500		G3/2500
BVH (80°-90°)	300.2	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7
2.5°	2860.2	2839.4	2839.4	2824.0	2824.0	2798.1	2787.8	2782.7	2756.7	2741.2	2725.7
5°	3025.6	2999.8	2994.6	2958.4	2942.9	2886.0	2880.8	2844.7	2798.1	2751.5	2715.3
7.5°	3175.6	3160.1	3134.2	3098.0	3051.5	2979.1	2973.9	2917.0	2839.4	2777.4	2725.7
10°	3284.3	3274.0	3237.7	3191.1	3139.4	3067.0	3061.9	2999.8	2906.8	2834.3	2761.8
12.5°	3413.6	3398.1	3351.5	3289.5	3232.6	3165.3	3160.1	3108.4	3004.9	2911.9	2818.8
15°	3537.7	3516.9	3460.1	3398.1	3336.0	3279.1	3279.1	3222.2	3113.6	3004.9	2896.4
17.5°	3599.8	3589.3	3532.5	3465.2	3413.6	3372.2	3367.1	3315.3	3206.6	3092.9	2973.9
20°	3620.5	3625.7	3573.9	3501.4	3465.2	3444.6	3439.4	3403.2	3284.3	3175.6	3061.9
22.5°	3615.3	3630.8	3589.3	3511.8	3501.4	3501.4	3501.4	3460.1	3367.1	3258.4	3144.6
25°	3635.9	3656.7	3625.7	3532.5	3532.5	3553.2	3553.2	3532.5	3449.8	3356.7	3243.0
27.5°	3708.4	3723.9	3698.0	3568.7	3573.9	3604.9	3599.8	3604.9	3553.2	3465.2	3351.5
30°	3796.3	3817.0	3786.0	3625.7	3620.5	3651.5	3651.5	3677.3	3641.2	3547.9	3454.9
32.5°	4034.2	4029.1	3930.7	3687.7	3672.2	3703.3	3703.3	3729.0	3708.4	3635.9	3547.9
35°	4742.7	4665.2	4448.0	3889.4	3734.3	3749.8	3749.8	3796.3	3806.6	3749.8	3672.2
37.5°	5466.9	5441.0	5275.5	4427.3	3961.7	3848.0	3842.8	3910.1	3956.6	3910.1	3858.4
40°	6196.1	6175.5	6139.3	5146.2	4437.7	4023.9	4008.4	4065.2	4148.0	4117.0	4086.0
42.5°	6873.6	6863.3	6899.5	5854.7	5042.8	4401.4	4354.8	4287.7	4406.5	4396.3	4396.3
45°	7406.3	7432.3	7452.9	6516.8	5699.6	4887.6	4830.7	4603.1	4763.4	4804.7	4836.0
47.5°	7706.4	7727.1	7799.5	7163.2	6356.4	5451.4	5410.0	5037.6	5249.6	5373.8	5461.7
50°	8135.7	8078.7	8140.8	7794.3	7147.7	6185.8	6072.0	5622.1	5890.9	6108.2	6315.0
52.5°	8549.4	8456.3	8508.0	8523.6	8047.7	6904.6	6785.8	6309.9	6646.1	6987.4	7354.7
55°	8921.8	8916.6	8968.3	9232.1	8916.6	7675.4	7540.8	7070.1	7556.4	7923.6	8544.2
57.5°	9221.8	9273.5	9501.0	10054.5	9919.9	8513.2	8363.2	7954.6	8528.7	8895.9	9925.2
60°	9573.6	9656.3	10033.9	10752.8	10835.5	9392.5	9237.4	8942.5	9527.0	9899.3	11523.3
62.5°	9692.4	9811.4	10587.2	11487.1	11792.3	10354.5	10214.7	10018.3	10576.9	10913.1	13116.3
65°	8901.2	9128.7	10892.4	11864.7	12821.5	11512.9	11394.0	11223.3	11621.6	11844.0	14197.2
67.5°	8683.9	8787.2	10297.5	12407.8	13788.7	13002.5	12883.7	12588.8	12599.1	12506.1	14549.0
70°	8378.8	8492.5	9687.3	12816.3	15174.8	15040.3	14895.6	14026.6	13493.8	12930.2	13855.9
72.5°	7137.5	7101.2	8347.7	11714.7	15842.0	17564.3	17393.6	15573.0	14155.9	12562.9	11694.0
75°	4008.4	3904.9	5063.4	8104.7	14466.3	18567.6	18562.5	16354.0	13690.4	10944.1	7959.7
77.5°	1163.7	1132.7	1670.6	3398.1	9739.0	16131.6	16328.1	14750.6	11425.0	7861.5	4370.4
80°	548.3	558.6	718.9	1122.3	4158.3	10411.4	10975.1	9713.1	6827.1	3625.7	1805.1
82.5°	346.6	351.7	491.3	724.1	1758.5	4727.2	5192.8	4370.4	2704.9	1567.1	796.5
85°	217.2	217.2	325.8	475.9	1049.9	1510.3	1639.6	1489.5	1158.5	853.5	434.5
87.5°	119.0	119.0	196.5	274.1	574.0	486.2	501.7	594.8	724.1	522.4	217.2
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°	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7	2725.7
2.5°	2720.4	2710.1	2694.7	2689.4	2684.3	2679.1	2684.3	2694.7	2684.3	2684.3	2689.4
5°	2704.9	2694.7	2673.9	2673.9	2679.1	2684.3	2710.1	2725.7	2730.8	2730.8	2730.8
7.5°	2704.9	2689.4	2673.9	2679.1	2689.4	2710.1	2751.5	2777.4	2798.1	2803.3	2803.3
10°	2730.8	2710.1	2699.8	2710.1	2741.2	2756.7	2798.1	2839.4	2865.4	2875.7	2875.7
12.5°	2777.4	2756.7	2756.7	2777.4	2818.8	2839.4	2875.7	2906.8	2937.8	2953.3	2953.3
15°	2855.0	2829.2	2834.3	2870.5	2917.0	2937.8	2963.5	2973.9	2999.8	3020.5	3020.5
17.5°	2927.4	2901.5	2911.9	2953.3	2984.3	2994.6	3010.1	3004.9	3015.3	3030.9	3036.0
20°	3010.1	2984.3	2989.5	3015.3	3020.5	3010.1	3010.1	2994.6	2989.5	3015.3	3025.6
22.5°	3092.9	3067.0	3061.9	3046.3	3020.5	2994.6	2979.1	2963.5	2953.3	2979.1	2989.5
25°	3191.1	3155.0	3129.0	3061.9	2994.6	2948.1	2927.4	2917.0	2911.9	2937.8	2948.1
27.5°	3299.7	3263.6	3186.0	3041.1	2932.5	2855.0	2839.4	2839.4	2849.8	2865.4	2875.7
30°	3403.2	3367.1	3227.4	2994.6	2824.0	2710.1	2694.7	2710.1	2736.1	2751.5	2767.1
32.5°	3506.6	3470.4	3253.2	2922.2	2663.6	2518.8	2508.5	2534.3	2575.7	2586.0	2596.3
35°	3646.3	3610.2	3284.3	2818.8	2461.9	2306.7	2296.4	2311.9	2348.1	2363.6	2379.1
37.5°	3842.8	3822.1	3330.8	2704.9	2275.7	2105.0	2074.0	2063.7	2084.3	2079.2	2099.9
40°	4101.5	4117.0	3413.6	2555.0	2094.7	1918.8	1851.6	1820.6	1799.8	1758.5	1779.2
42.5°	4479.0	4489.4	3506.6	2384.4	1939.6	1743.0	1655.1	1598.1	1556.8	1489.5	1499.9
45°	5032.4	4944.5	3615.3	2203.3	1799.8	1603.4	1499.9	1432.6	1375.8	1318.9	1324.0
47.5°	5766.8	5497.9	3734.3	2053.3	1660.2	1489.5	1396.5	1318.9	1251.7	1205.1	1210.3
50°	6671.9	6185.8	3853.1	1913.6	1520.6	1401.6	1318.9	1236.2	1168.8	1122.3	1117.1
52.5°	7866.6	7013.4	3930.7	1758.5	1380.9	1324.0	1251.7	1174.1	1091.3	1034.3	1029.2
55°	9108.0	7975.3	3998.1	1572.4	1246.4	1236.2	1199.8	1112.0	1013.7	941.3	931.0
57.5°	10473.4	9004.5	4049.7	1391.3	1143.1	1163.7	1153.3	1049.9	941.3	874.1	868.9
60°	11714.7	10070.0	3884.1	1231.0	1049.9	1091.3	1101.7	1013.7	956.8	972.3	977.6
62.5°	12966.4	10892.4	3253.2	1112.0	987.8	1044.7	1132.7	1127.5	1101.7	1127.5	1132.7
65°	13416.3	11063.0	2306.7	1013.7	925.8	1065.5	1231.0	1220.7	1101.7	1055.1	1044.7
67.5°	13162.9	10556.2	1551.6	936.2	879.2	1091.3	1334.4	1220.7	1060.3	998.2	977.6
70°	11957.8	9309.7	1137.8	858.6	837.9	1086.1	1391.3	1215.4	1039.6	972.3	946.5
72.5°	9537.2	7184.1	915.5	786.1	775.8	1060.3	1422.3	1205.1	1018.9	946.5	915.5
75°	6175.5	4468.7	770.6	713.8	682.8	1018.9	1406.8	1174.1	993.0	900.0	879.2
77.5°	2865.4	1924.0	656.8	631.0	594.8	956.8	1360.3	1112.0	936.2	848.2	822.4
80°	1334.4	910.2	553.4	548.3	532.7	905.1	1298.2	1039.6	868.9	796.5	755.1
82.5°	713.8	548.3	449.9	449.9	465.5	843.1	1220.7	951.6	780.9	744.8	636.2
85°	377.6	315.5	325.8	351.7	398.2	744.8	1117.1	858.6	682.8	568.9	553.4
87.5°	191.3	201.7	201.7	237.9	305.2	605.1	920.6	708.5	579.3	465.5	455.2
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)