

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: P400288

Luminaire Tested: **ARCH-L-PA3-260-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400288
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-PA3-260-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31154 lumens
Efficiency: N/A
Efficacy: 119.4 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

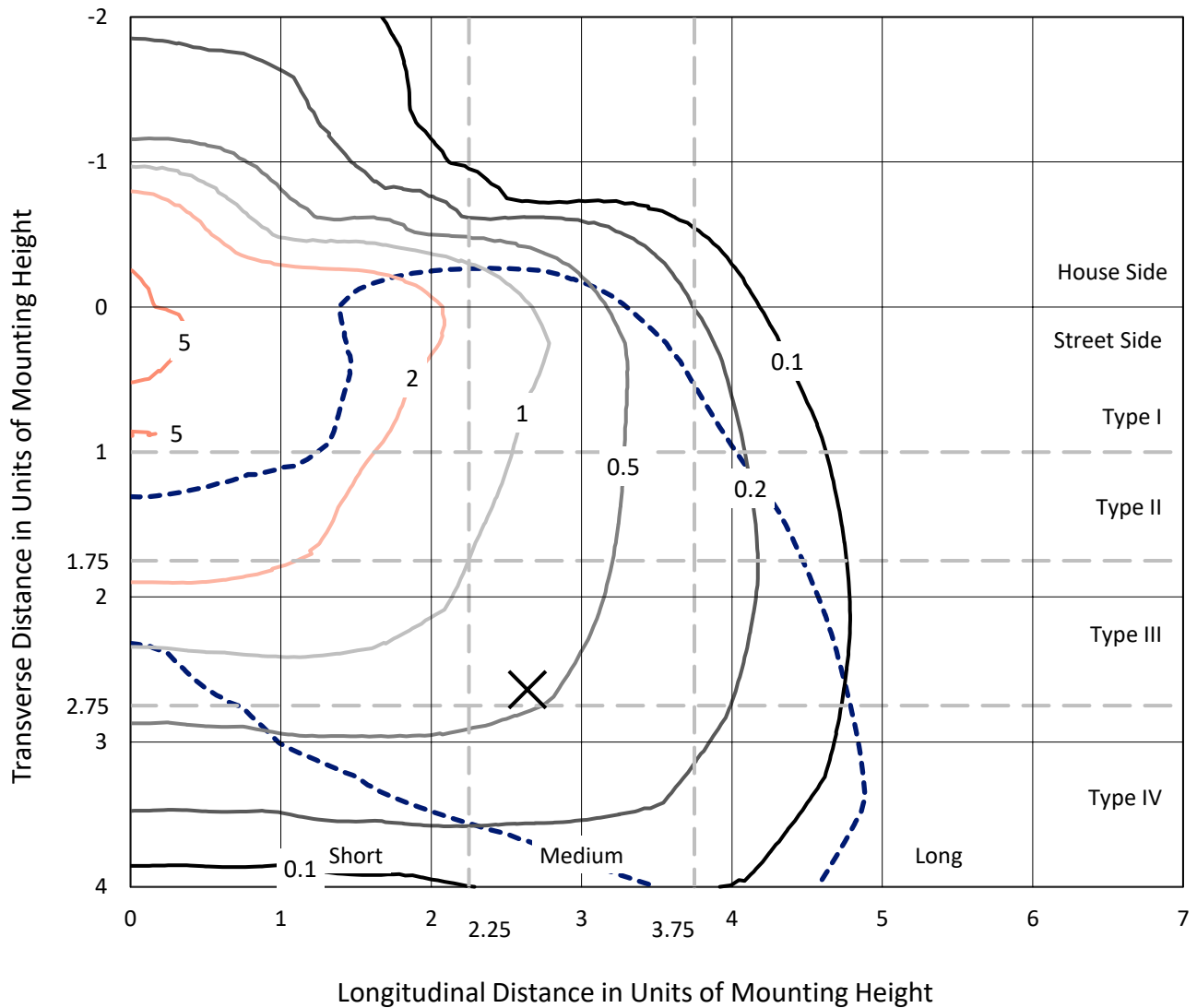
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

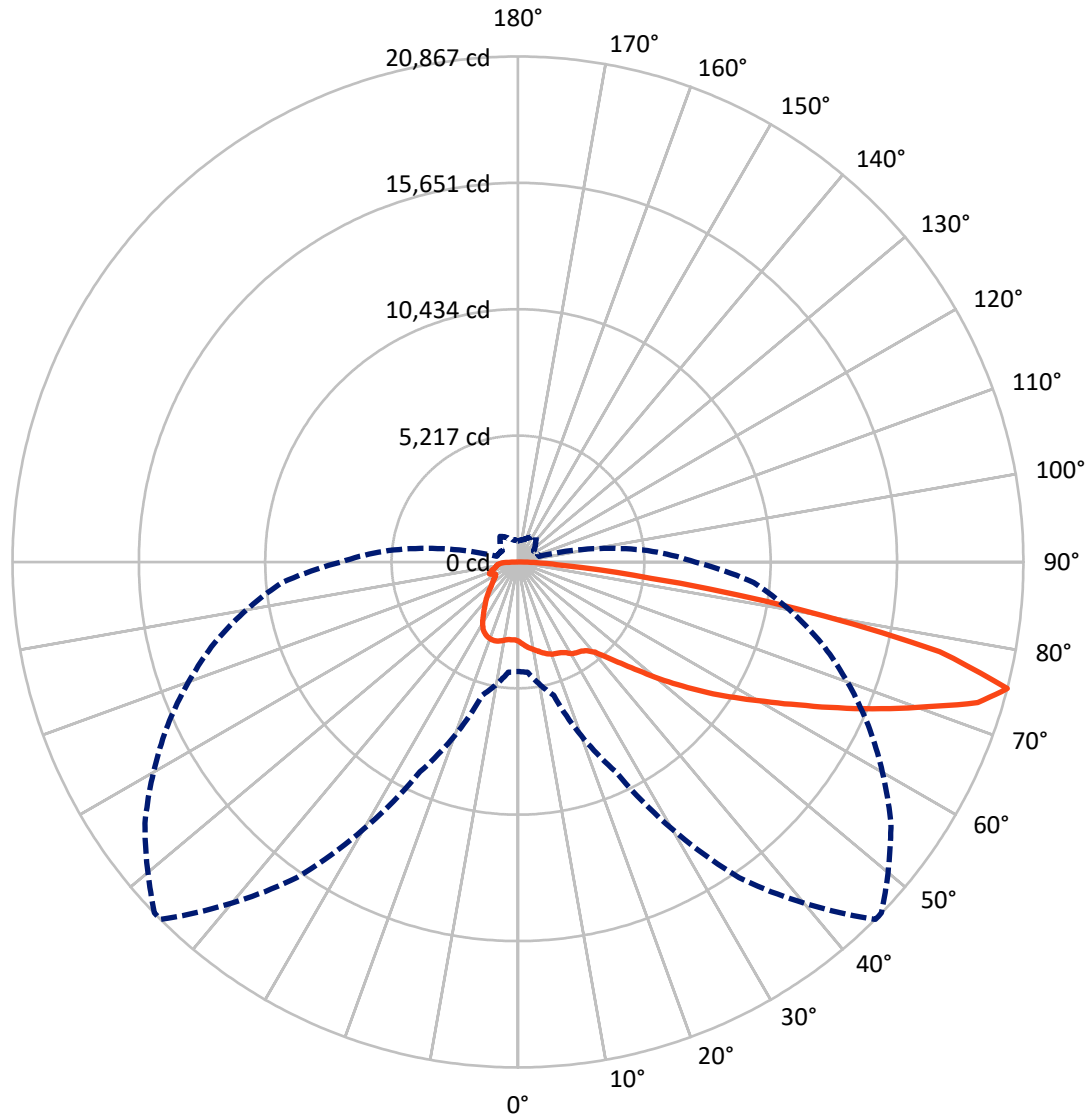
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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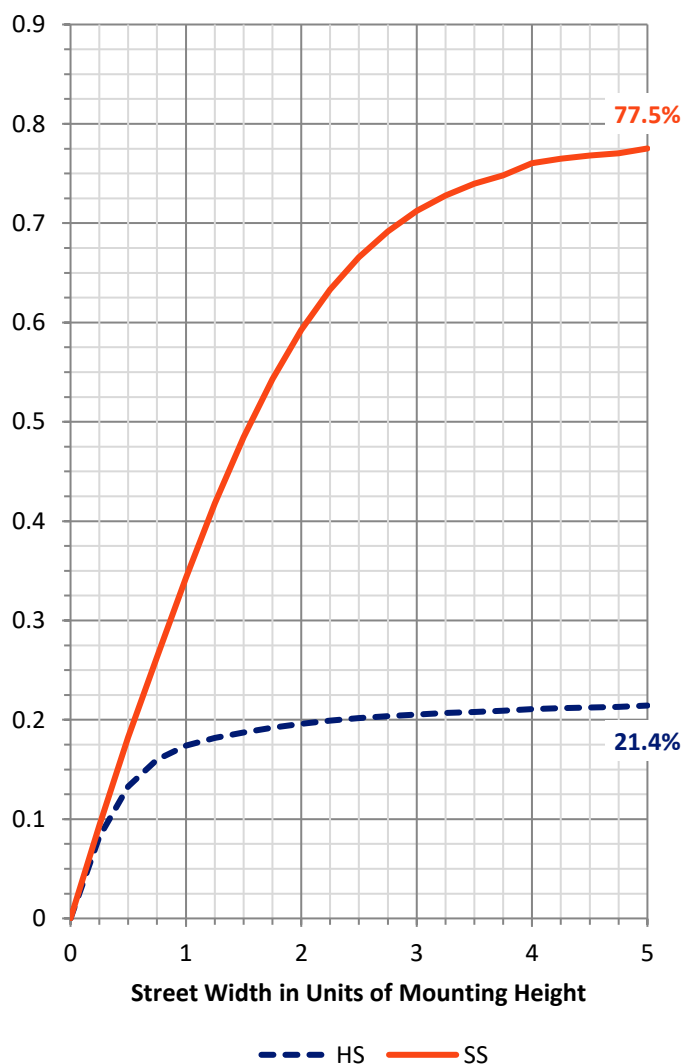
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6884.9	0.0	6884.9
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	24269.1	0.0	24269.1
	% Fixture	77.9	0.0	77.9
Total	Lumens	31154.0	0.0	31154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.7	1.0
10°-20°	1029.7	3.3
20°-30°	1755.6	5.6
30°-40°	2459.8	7.9
40°-50°	3613.7	11.6
50°-60°	5751.3	18.5
60°-70°	8181.2	26.3
70°-80°	6850.1	22.0
80°-90°	1188.8	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°	31154.0	100.0
0°-180°	31154.0	100.0

Coefficient of Utilization



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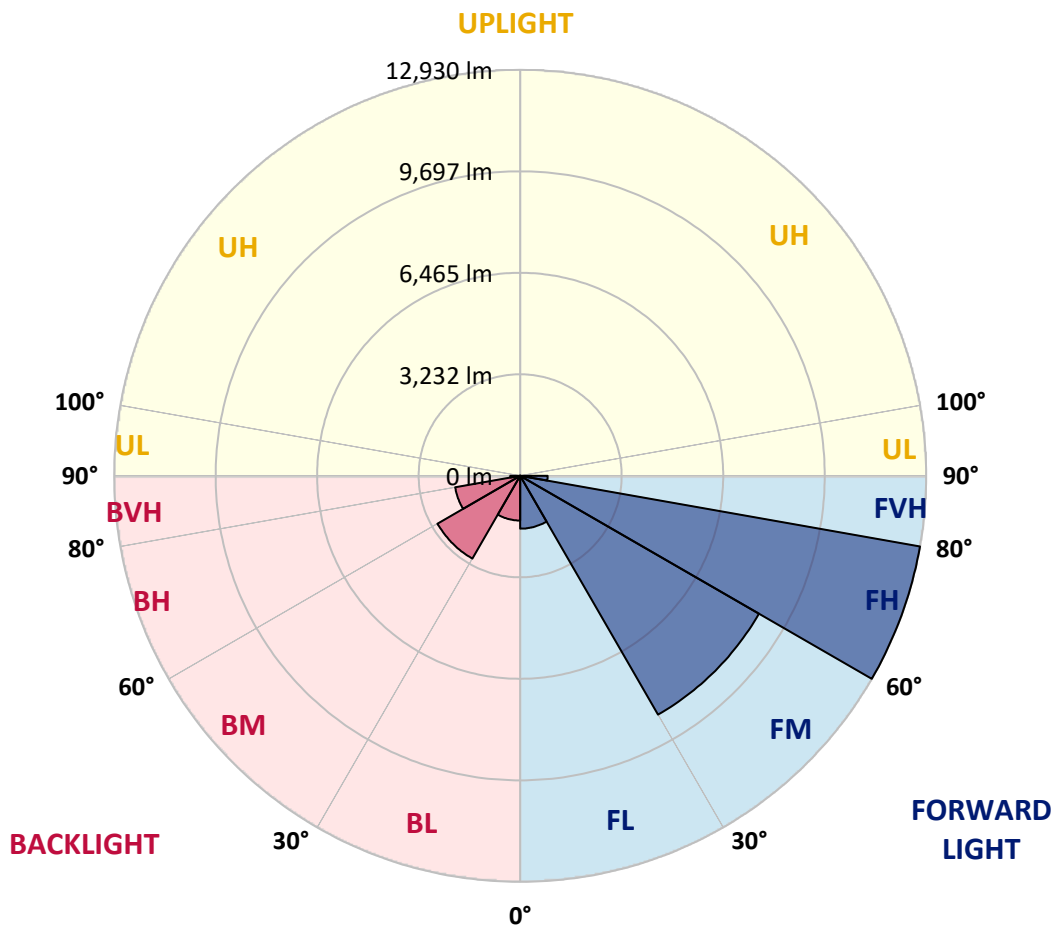
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.1	5.4			
FM (30°-60°)	8781.4	28.2			
FH (60°-80°)	12929.7	41.5			G5
FVH (80°-90°)	874.0	2.8			G5
BL (0°-30°)	1424.9	4.6	B3/2500		
BM (30°-60°)	3043.4	9.8	B3/5000		
BH (60°-80°)	2101.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	314.8	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°	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9
2.5°	3459.2	3442.5	3434.2	3434.2	3400.9	3380.1	3375.9	3346.8	3321.8	3296.8	3276.0
5°	3659.0	3646.5	3621.5	3600.7	3554.9	3496.6	3488.3	3425.9	3363.4	3305.2	3255.2
7.5°	3842.1	3817.2	3788.0	3746.4	3671.5	3592.4	3579.9	3492.5	3405.1	3317.6	3251.0
10°	3996.2	3971.2	3929.6	3871.3	3775.5	3679.8	3667.3	3575.7	3484.1	3380.1	3284.3
12.5°	4141.8	4121.0	4058.6	3979.5	3867.1	3779.7	3767.2	3688.1	3592.4	3475.8	3350.9
15°	4266.7	4245.9	4179.3	4087.7	3958.7	3892.1	3875.4	3800.5	3704.8	3579.9	3450.8
17.5°	4329.2	4329.2	4258.4	4158.5	4037.8	3987.8	3975.3	3883.8	3796.3	3675.6	3546.6
20°	4350.0	4358.3	4308.4	4187.6	4083.6	4062.8	4050.3	3975.3	3875.4	3758.9	3638.2
22.5°	4362.5	4379.1	4337.5	4200.1	4112.7	4100.2	4091.9	4041.9	3962.9	3850.5	3729.7
25°	4404.1	4404.1	4375.0	4220.9	4150.2	4146.0	4146.0	4116.9	4062.8	3967.0	3846.3
27.5°	4466.5	4462.4	4424.9	4266.7	4233.4	4245.9	4241.8	4237.6	4200.1	4104.4	3975.3
30°	4570.6	4570.6	4529.0	4358.3	4337.5	4391.6	4395.8	4404.1	4345.8	4196.0	4091.9
32.5°	4728.8	4712.1	4670.5	4449.9	4416.6	4466.5	4474.9	4470.7	4420.7	4279.2	4229.3
35°	5215.8	5178.4	5028.5	4653.9	4487.3	4516.5	4520.7	4541.5	4549.8	4437.4	4412.4
37.5°	6069.2	6019.2	5790.3	5136.7	4712.1	4641.4	4637.2	4691.3	4737.1	4637.2	4637.2
40°	6997.4	6955.8	6822.6	5969.3	5128.4	4895.3	4878.6	4928.6	4986.9	4916.1	4936.9
42.5°	7796.7	7830.0	7842.5	6851.7	5752.8	5369.8	5324.0	5253.3	5344.9	5282.4	5365.7
45°	8396.1	8379.4	8608.4	7755.0	6560.4	5965.1	5902.7	5711.2	5827.7	5823.6	6006.7
47.5°	9033.0	9003.8	9099.6	8604.2	7480.3	6693.6	6597.8	6314.8	6489.6	6610.3	6914.2
50°	9636.6	9644.9	9678.2	9274.4	8479.3	7580.2	7459.5	7080.7	7330.4	7584.4	8013.1
52.5°	10423.3	10365.0	10323.4	10057.0	9599.1	8504.3	8425.2	7992.3	8342.0	8641.7	9212.0
55°	11110.1	11072.7	11047.7	11035.2	10535.7	9524.2	9440.9	8991.3	9495.0	9707.3	10548.2
57.5°	11842.8	11822.0	11955.2	12167.5	11967.7	10560.7	10473.3	10040.3	10602.3	10752.2	11996.8
60°	12379.8	12392.2	12758.6	13299.7	13162.3	11684.6	11580.5	11197.6	11680.4	11813.6	13445.4
62.5°	12383.9	12508.8	13358.0	14327.9	14486.1	12979.2	12858.5	12442.2	12787.7	12787.7	14744.1
65°	11201.7	11343.3	13249.8	14581.8	15826.4	14519.4	14402.8	13749.3	13878.3	13703.5	15963.8
67.5°	10023.7	10190.2	11984.3	14602.6	16767.2	16167.8	16030.4	15056.3	14835.7	14394.5	16817.2
70°	9241.1	9357.7	10856.2	14332.0	17333.3	17891.1	17787.1	16296.8	15589.2	14973.1	16638.2
72.5°	7780.0	7738.4	9170.3	13045.8	17649.7	19847.6	19760.2	17645.5	16242.7	14698.4	14190.5
75°	4516.5	4566.4	5690.4	9557.5	15909.7	20867.4	20859.1	18798.6	15955.5	12983.3	9778.1
77.5°	1302.9	1340.4	1869.0	4200.1	10061.2	17799.5	18369.8	17191.8	13487.0	9253.6	5070.1
80°	570.3	599.4	811.7	1398.7	4333.3	11626.3	12125.8	11626.3	8133.8	4245.9	1989.8
82.5°	337.2	358.0	528.7	865.8	2077.2	5532.2	6206.5	5419.8	3509.1	1802.4	824.2
85°	191.5	199.8	303.9	549.5	1307.1	1935.6	2172.9	2035.5	1710.9	1024.0	432.9
87.5°	87.4	91.6	149.9	258.1	732.6	653.5	678.5	899.1	990.7	624.4	216.5
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°	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9	3271.9
2.5°	3267.7	3255.2	3230.2	3221.9	3209.4	3213.6	3217.7	3217.7	3221.9	3209.4	3209.4
5°	3234.4	3213.6	3188.6	3188.6	3188.6	3221.9	3251.0	3267.7	3276.0	3276.0	3267.7
7.5°	3221.9	3196.9	3167.8	3176.1	3184.4	3226.1	3280.2	3334.3	3350.9	3350.9	3342.6
10°	3246.9	3221.9	3201.1	3213.6	3234.4	3267.7	3309.3	3359.3	3400.9	3405.1	3400.9
12.5°	3305.2	3276.0	3255.2	3280.2	3305.2	3326.0	3346.8	3367.6	3421.7	3430.0	3430.0
15°	3400.9	3371.8	3346.8	3367.6	3375.9	3375.9	3375.9	3375.9	3430.0	3438.4	3438.4
17.5°	3496.6	3471.7	3446.7	3450.8	3425.9	3392.6	3380.1	3375.9	3405.1	3430.0	3434.2
20°	3588.2	3567.4	3542.4	3500.8	3438.4	3375.9	3355.1	3355.1	3371.8	3409.2	3409.2
22.5°	3688.1	3663.1	3621.5	3525.8	3421.7	3334.3	3313.5	3326.0	3346.8	3396.7	3392.6
25°	3800.5	3767.2	3696.4	3517.4	3367.6	3263.5	3267.7	3305.2	3342.6	3396.7	3396.7
27.5°	3925.4	3879.6	3738.1	3450.8	3246.9	3147.0	3184.4	3271.9	3326.0	3384.2	3392.6
30°	4062.8	4021.1	3771.4	3334.3	3051.2	2959.7	3051.2	3192.8	3276.0	3330.1	3342.6
32.5°	4229.3	4196.0	3800.5	3184.4	2797.3	2718.2	2851.4	3026.3	3159.5	3221.9	3234.4
35°	4437.4	4404.1	3838.0	3013.8	2560.0	2476.8	2597.5	2776.5	2951.3	3030.4	3055.4
37.5°	4708.0	4658.0	3871.3	2830.6	2360.2	2264.5	2322.8	2485.1	2643.3	2751.5	2780.7
40°	5053.5	4974.4	3900.4	2622.5	2185.4	2077.2	2098.0	2177.1	2268.7	2364.4	2401.9
42.5°	5540.5	5382.3	3904.6	2401.9	2006.4	1906.5	1898.2	1923.1	1923.1	1923.1	1935.6
45°	6219.0	5919.3	3912.9	2193.7	1823.2	1719.2	1694.2	1685.9	1623.4	1502.7	1494.4
47.5°	7076.5	6622.8	3950.4	2018.9	1631.8	1540.2	1506.9	1473.6	1357.0	1232.1	1207.2
50°	8175.5	7438.7	4025.3	1852.4	1469.4	1407.0	1365.4	1286.3	1157.2	1061.5	1036.5
52.5°	9440.9	8408.6	4096.1	1677.6	1348.7	1307.1	1257.1	1161.4	1024.0	965.7	957.4
55°	10893.7	9490.9	4237.6	1523.5	1244.6	1215.5	1169.7	1078.1	974.1	932.4	928.3
57.5°	12379.8	10702.2	4437.4	1386.2	1144.7	1128.1	1128.1	1049.0	982.4	965.7	965.7
60°	13811.7	11742.9	4283.4	1257.1	1053.2	1061.5	1140.6	1119.8	1069.8	1090.6	1103.1
62.5°	14923.1	12354.8	3475.8	1153.1	986.6	1061.5	1265.4	1265.4	1207.2	1198.8	1198.8
65°	15397.7	12346.5	2443.5	1074.0	961.6	1165.5	1411.1	1344.5	1190.5	1132.2	1119.8
67.5°	15277.0	11805.3	1685.9	1019.9	953.2	1273.8	1477.7	1290.4	1115.6	1065.6	1028.2
70°	14215.5	10660.6	1298.8	969.9	940.8	1228.0	1456.9	1228.0	1057.3	1011.5	978.2
72.5°	11468.1	8550.1	1078.1	919.9	890.8	1136.4	1386.2	1169.7	1011.5	961.6	928.3
75°	7313.8	5378.2	911.6	853.3	795.1	1019.9	1290.4	1111.4	961.6	895.0	870.0
77.5°	3517.4	2318.6	795.1	774.3	716.0	944.9	1194.7	1036.5	895.0	840.9	824.2
80°	1423.6	1061.5	691.0	695.2	657.7	899.1	1128.1	965.7	828.4	770.1	741.0
82.5°	741.0	616.1	582.8	599.4	599.4	857.5	1078.1	907.5	770.1	745.1	649.4
85°	399.6	383.0	449.6	482.9	520.3	774.3	1003.2	845.0	703.5	603.6	582.8
87.5°	195.6	249.8	253.9	291.4	362.2	620.2	845.0	707.7	586.9	487.0	478.7
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)