

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: P400131

Luminaire Tested: **ARCH-L-PA3-240-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27349 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

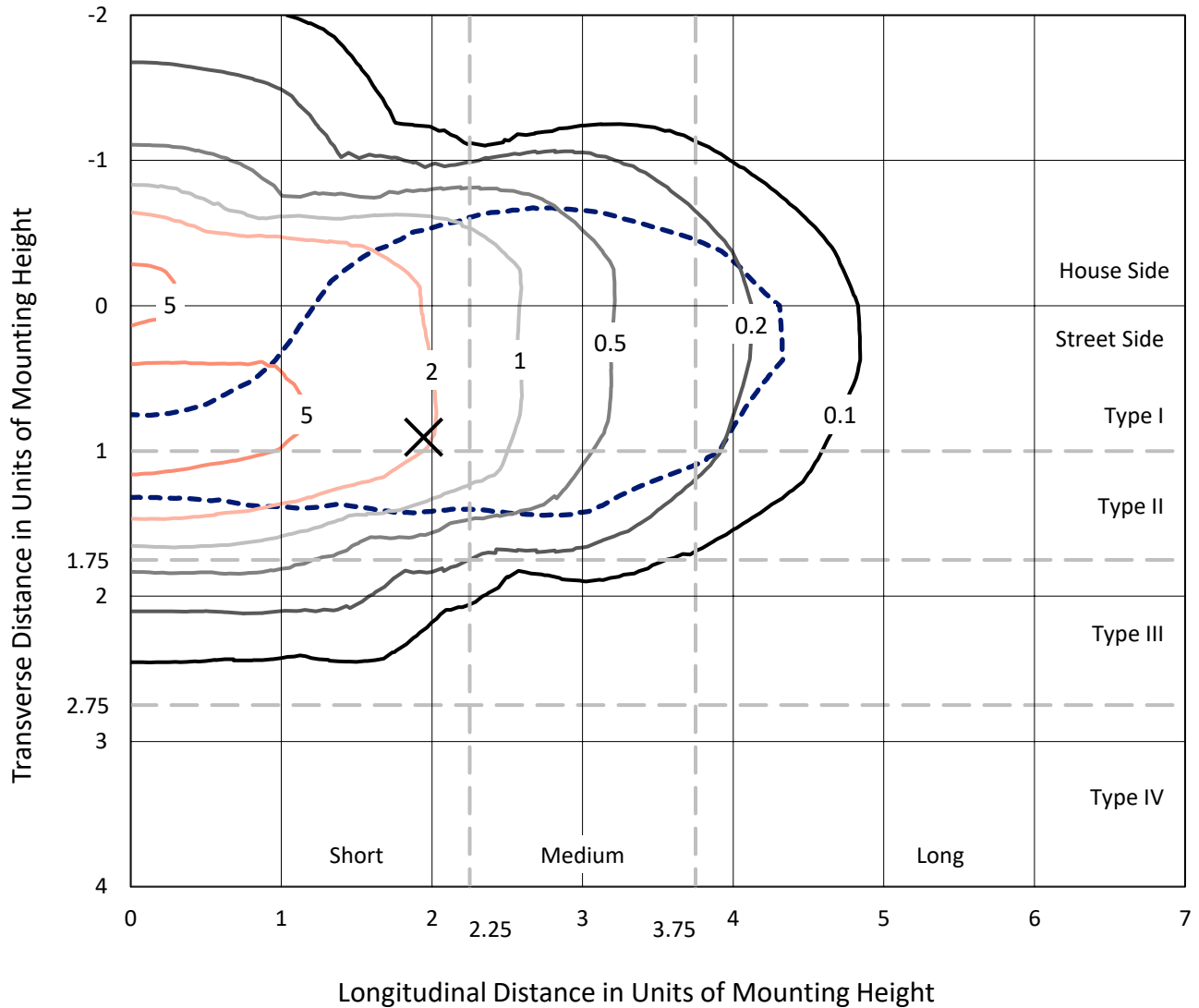
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

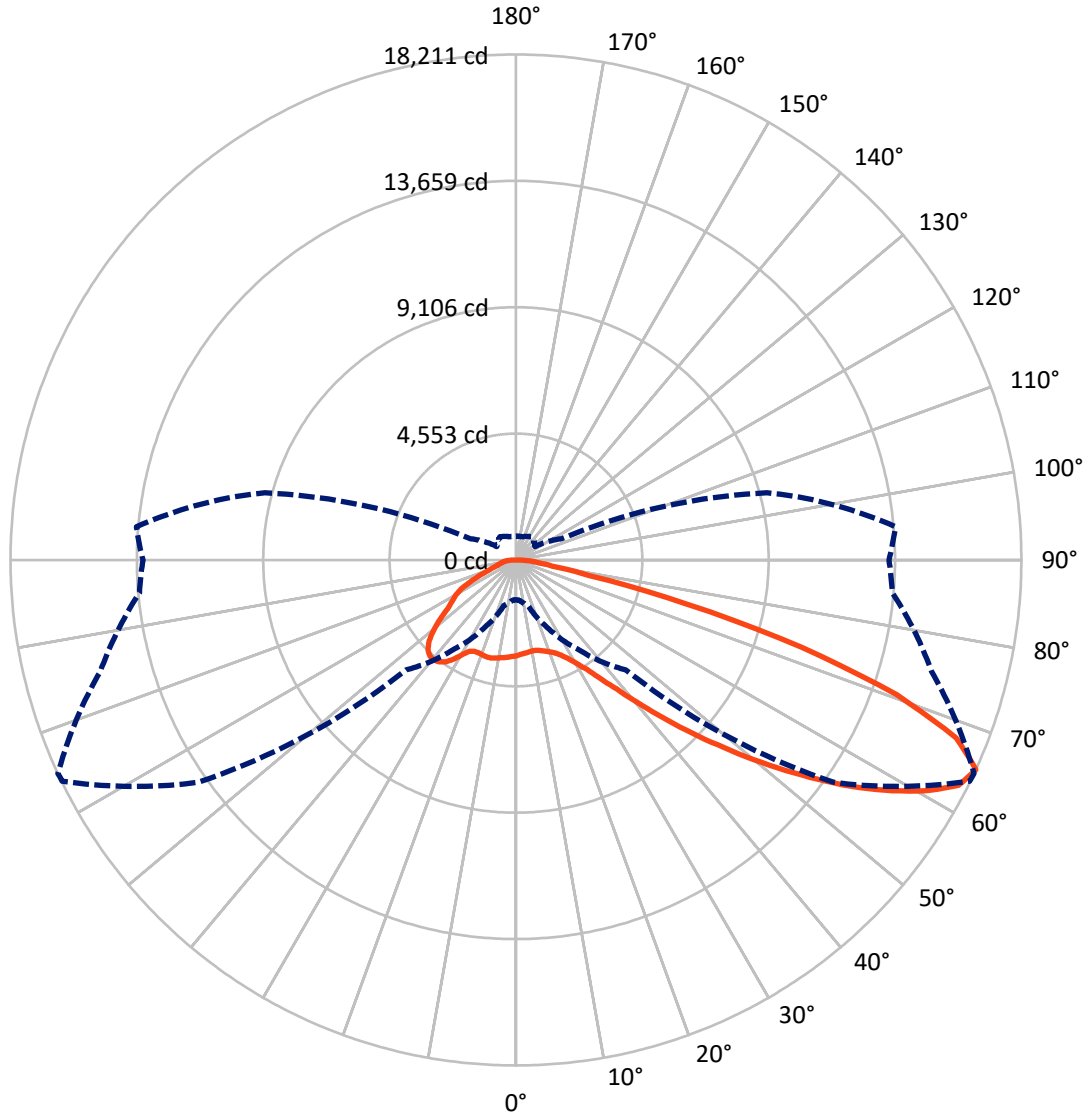
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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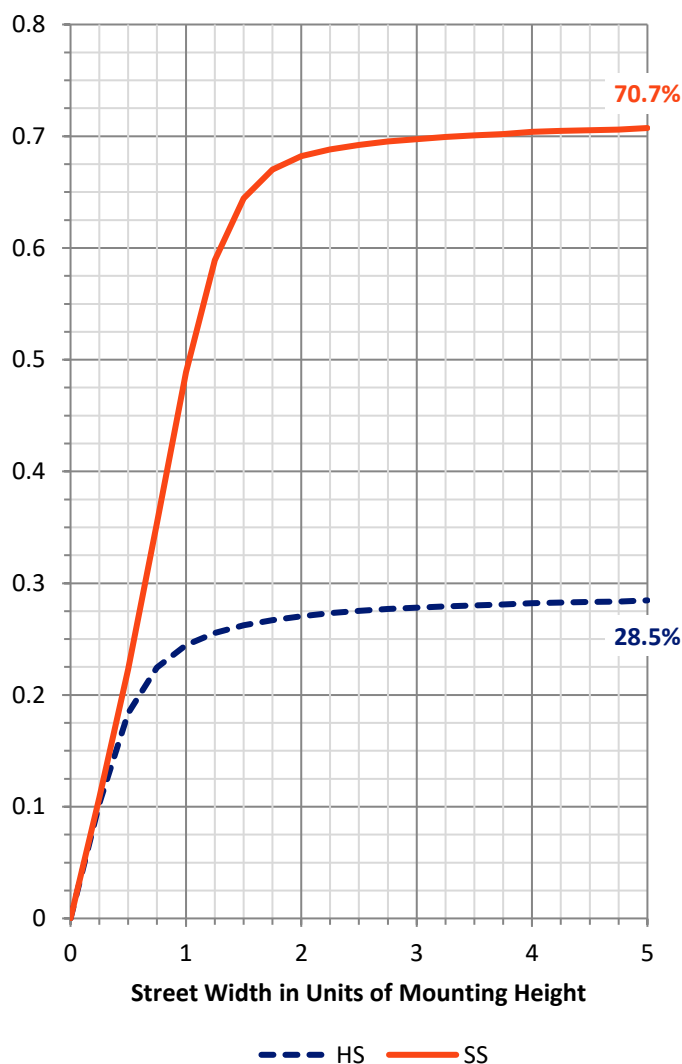
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7907.0	0.0	7907.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	19442.0	0.0	19442.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	27349.0	0.0	27349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	1.2
10°-20°	983.0	3.6
20°-30°	1746.1	6.4
30°-40°	2953.9	10.8
40°-50°	5142.1	18.8
50°-60°	6645.3	24.3
60°-70°	5815.0	21.3
70°-80°	3163.0	11.6
80°-90°	571.5	2.1
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°	27349.0	100.0
0°-180°	27349.0	100.0

Coefficient of Utilization

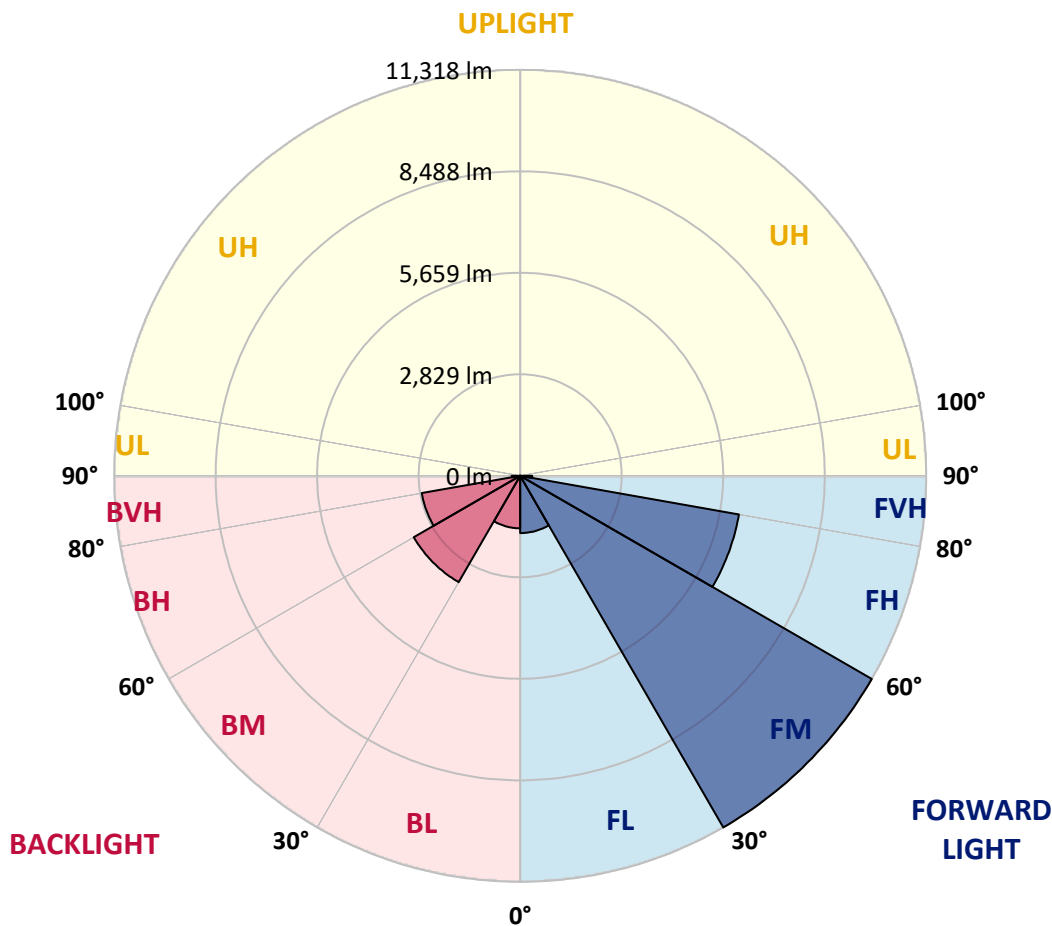


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.7	5.8			
FM (30°-60°)	11317.8	41.4			
FH (60°-80°)	6192.2	22.6			G3/7500
FVH (80°-90°)	336.3	1.2			G3/500
BL (0°-30°)	1462.5	5.3	B3/2500		
BM (30°-60°)	3423.5	12.5	B3/5000		
BH (60°-80°)	2785.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	235.2	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8
2.5°	3394.6	3391.0	3383.8	3391.0	3394.6	3401.8	3398.2	3405.4	3401.8	3412.6	3430.6
5°	3308.2	3301.0	3297.4	3315.4	3326.2	3344.2	3351.4	3376.6	3373.0	3391.0	3419.8
7.5°	3211.0	3211.0	3207.4	3229.0	3243.4	3275.8	3301.0	3344.2	3347.8	3380.2	3412.6
10°	3135.4	3139.0	3135.4	3153.4	3175.0	3214.6	3257.8	3319.0	3322.6	3369.4	3401.8
12.5°	3106.6	3106.6	3106.6	3131.8	3160.6	3214.6	3265.0	3329.8	3337.0	3387.4	3416.2
15°	3146.2	3149.8	3142.6	3167.8	3200.2	3265.0	3311.8	3380.2	3387.4	3434.2	3452.2
17.5°	3286.6	3301.0	3283.0	3297.4	3290.2	3340.6	3383.8	3452.2	3455.8	3495.4	3502.6
20°	3563.8	3578.2	3549.4	3531.4	3466.6	3463.0	3481.0	3535.0	3535.0	3560.2	3542.2
22.5°	3992.2	4006.6	3956.2	3887.8	3733.0	3657.4	3617.8	3643.0	3639.4	3650.2	3603.4
25°	4560.9	4557.3	4496.2	4370.2	4121.8	3938.2	3841.0	3801.4	3801.4	3779.8	3722.2
27.5°	5266.5	5212.5	5104.5	4953.3	4607.7	4352.2	4143.4	4042.6	4024.6	3959.8	3851.8
30°	6018.9	5979.3	5824.5	5604.9	5205.3	4877.7	4532.2	4330.6	4319.8	4179.4	4017.4
32.5°	6904.4	6839.6	6666.8	6404.0	5925.3	5464.5	5032.5	4726.5	4708.5	4485.4	4262.2
35°	8042.0	7988.0	7653.2	7390.4	6774.8	6170.1	5658.9	5252.1	5237.7	4964.1	4679.7
37.5°	9406.3	9265.9	8941.9	8448.7	7800.8	7084.4	6436.4	5925.3	5907.3	5604.9	5244.9
40°	10623.0	10497.0	10209.0	9755.5	9060.7	8265.1	7386.8	6767.6	6749.6	6382.4	5928.9
42.5°	11523.0	11436.6	11249.4	10986.6	10489.8	10007.4	8599.9	7786.4	7754.0	7278.8	6713.6
45°	12044.9	11976.5	11868.5	11933.3	11926.1	11836.1	10047.0	8999.5	8895.1	8279.5	7588.4
47.5°	11918.9	11857.7	11900.9	12404.9	13099.7	13621.6	11731.8	10241.4	10101.0	9298.3	8520.7
50°	11008.2	11033.4	11260.2	12224.9	13783.6	14942.8	13600.1	11656.2	11469.0	10324.2	9406.3
52.5°	9348.7	9409.9	9960.7	11310.6	13708.0	15799.5	15288.4	13117.7	12869.3	11325.0	10212.6
55°	7426.4	7581.2	8293.9	9712.3	12721.7	15860.7	16562.7	14586.4	14312.8	12264.5	10914.6
57.5°	5493.3	5723.7	6548.0	7851.2	10831.8	14892.4	17199.9	15990.3	15659.1	13196.9	11656.2
60°	3484.6	3625.0	4575.3	6112.5	8290.3	12523.7	17117.1	17185.5	16897.5	14125.6	12430.1
62.5°	2224.7	2293.1	2771.8	4359.4	5795.7	9273.1	16213.5	18089.0	17894.6	14971.6	13164.5
65°	1429.1	1457.9	1702.7	2681.9	3945.4	5597.7	13963.6	18186.2	18211.4	15500.7	13618.0
67.5°	1162.7	1177.1	1267.1	1655.9	2789.8	3092.2	9726.7	16803.9	17109.9	15364.0	13463.3
70°	1058.3	1076.3	1169.9	1321.1	2159.9	2134.7	4708.5	14060.8	14561.2	14575.6	12775.7
72.5°	892.8	917.9	1043.9	1249.1	1670.3	1684.7	1994.3	10014.6	10752.6	13027.7	11742.6
75°	745.2	759.6	867.6	1101.5	1414.7	1346.3	1400.3	5309.7	6375.2	10446.6	10644.6
77.5°	604.8	619.2	698.4	878.4	1256.3	1047.5	1101.5	2199.5	2717.9	7091.6	8700.7
80°	432.0	446.4	536.4	684.0	950.3	943.1	817.2	1213.1	1317.5	3833.8	5651.7
82.5°	309.6	320.4	406.8	489.6	658.8	946.7	615.6	824.4	864.0	1699.1	2278.7
85°	208.8	208.8	280.8	324.0	424.8	597.6	496.8	558.0	583.2	806.4	615.6
87.5°	90.0	90.0	151.2	165.6	223.2	277.2	370.8	280.8	288.0	435.6	252.0
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°	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8	3455.8
2.5°	3441.4	3445.0	3452.2	3473.8	3488.2	3509.8	3520.6	3535.0	3535.0	3527.8	3531.4
5°	3434.2	3445.0	3470.2	3509.8	3535.0	3574.6	3603.4	3625.0	3632.2	3625.0	3628.6
7.5°	3430.6	3448.6	3491.8	3549.4	3585.4	3635.8	3675.4	3700.6	3718.6	3711.4	3715.0
10°	3419.8	3448.6	3502.6	3574.6	3628.6	3679.0	3715.0	3725.8	3736.6	3729.4	3725.8
12.5°	3434.2	3466.6	3524.2	3610.6	3671.8	3711.4	3722.2	3704.2	3679.0	3664.6	3661.0
15°	3463.0	3495.4	3553.0	3643.0	3697.0	3711.4	3686.2	3628.6	3571.0	3538.6	3535.0
17.5°	3502.6	3524.2	3571.0	3650.2	3693.4	3675.4	3625.0	3556.6	3513.4	3488.2	3491.8
20°	3527.8	3527.8	3563.8	3625.0	3661.0	3646.6	3585.4	3509.8	3441.4	3409.0	3398.2
22.5°	3563.8	3545.8	3549.4	3603.4	3653.8	3632.2	3502.6	3369.4	3272.2	3236.2	3232.6
25°	3661.0	3610.6	3578.2	3610.6	3729.4	3553.0	3293.8	3139.0	3049.0	3016.6	3020.2
27.5°	3779.8	3711.4	3643.0	3697.0	3790.6	3373.0	3027.4	2851.0	2797.0	2771.8	2782.6
30°	3898.6	3808.6	3718.6	3913.0	3747.4	3092.2	2685.5	2512.7	2465.9	2447.9	2462.3
32.5°	4118.2	3970.6	3862.6	4201.0	3614.2	2771.8	2314.7	2156.3	2113.1	2091.5	2084.3
35°	4485.4	4298.2	4190.2	4453.0	3427.0	2415.5	1976.3	1864.7	1817.9	1771.1	1763.9
37.5°	5014.5	4787.7	4690.5	4596.9	3164.2	2062.7	1717.1	1641.5	1573.1	1501.1	1497.5
40°	5648.1	5352.9	5280.9	4661.7	2800.6	1731.5	1537.1	1465.1	1378.7	1310.3	1313.9
42.5°	6378.8	6000.9	5846.1	4643.7	2350.7	1555.1	1407.5	1328.3	1252.7	1191.5	1187.9
45°	7160.0	6731.6	6375.2	4517.8	1904.3	1432.7	1328.3	1234.7	1159.1	1090.7	1083.5
47.5°	8024.0	7545.2	6864.8	4273.0	1573.1	1346.3	1281.5	1148.3	1079.9	1036.7	1036.7
50°	8895.1	8322.7	7314.8	3902.2	1378.7	1281.5	1213.1	1101.5	1047.5	1011.5	1011.5
52.5°	9640.3	9132.7	7685.6	3459.4	1256.3	1227.5	1166.3	1079.9	1022.3	989.9	986.3
55°	10363.8	9885.1	8016.8	3020.2	1155.5	1155.5	1155.5	1061.9	997.1	968.3	964.7
57.5°	11083.8	10677.0	8362.3	2732.2	1065.5	1094.3	1133.9	1040.3	975.5	950.3	946.7
60°	11897.3	11627.4	8761.9	2530.7	986.3	1029.5	1105.1	1015.1	939.5	917.9	914.3
62.5°	12761.3	12761.3	9125.5	2246.3	914.3	975.5	1061.9	982.7	907.2	889.2	885.6
65°	13438.1	13729.6	9359.5	1821.5	842.4	921.5	1011.5	939.5	864.0	860.4	853.2
67.5°	13517.3	13974.4	9211.9	1375.1	777.6	864.0	961.1	892.8	820.8	820.8	810.0
70°	12948.5	13412.9	8751.1	1029.5	730.8	806.4	896.4	835.2	766.8	774.0	756.0
72.5°	11998.1	12113.3	7606.4	813.6	676.8	745.2	817.2	770.4	709.2	709.2	684.0
75°	10745.4	10104.6	5525.7	680.4	612.0	673.2	738.0	698.4	644.4	626.4	612.0
77.5°	8553.1	7322.0	3211.0	586.8	558.0	604.8	648.0	619.2	572.4	532.8	532.8
80°	5212.5	4291.0	1418.3	507.6	493.2	529.2	558.0	525.6	486.0	446.4	435.6
82.5°	1983.5	1655.9	687.6	435.6	432.0	453.6	475.2	442.8	414.0	396.0	342.0
85°	543.6	500.4	471.6	363.6	356.4	352.8	378.0	363.6	324.0	266.4	237.6
87.5°	205.2	234.0	255.6	223.2	237.6	219.6	252.0	230.4	205.2	133.2	118.8
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)