

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: P318991

Luminaire Tested: **GAN-SA7A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29809 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

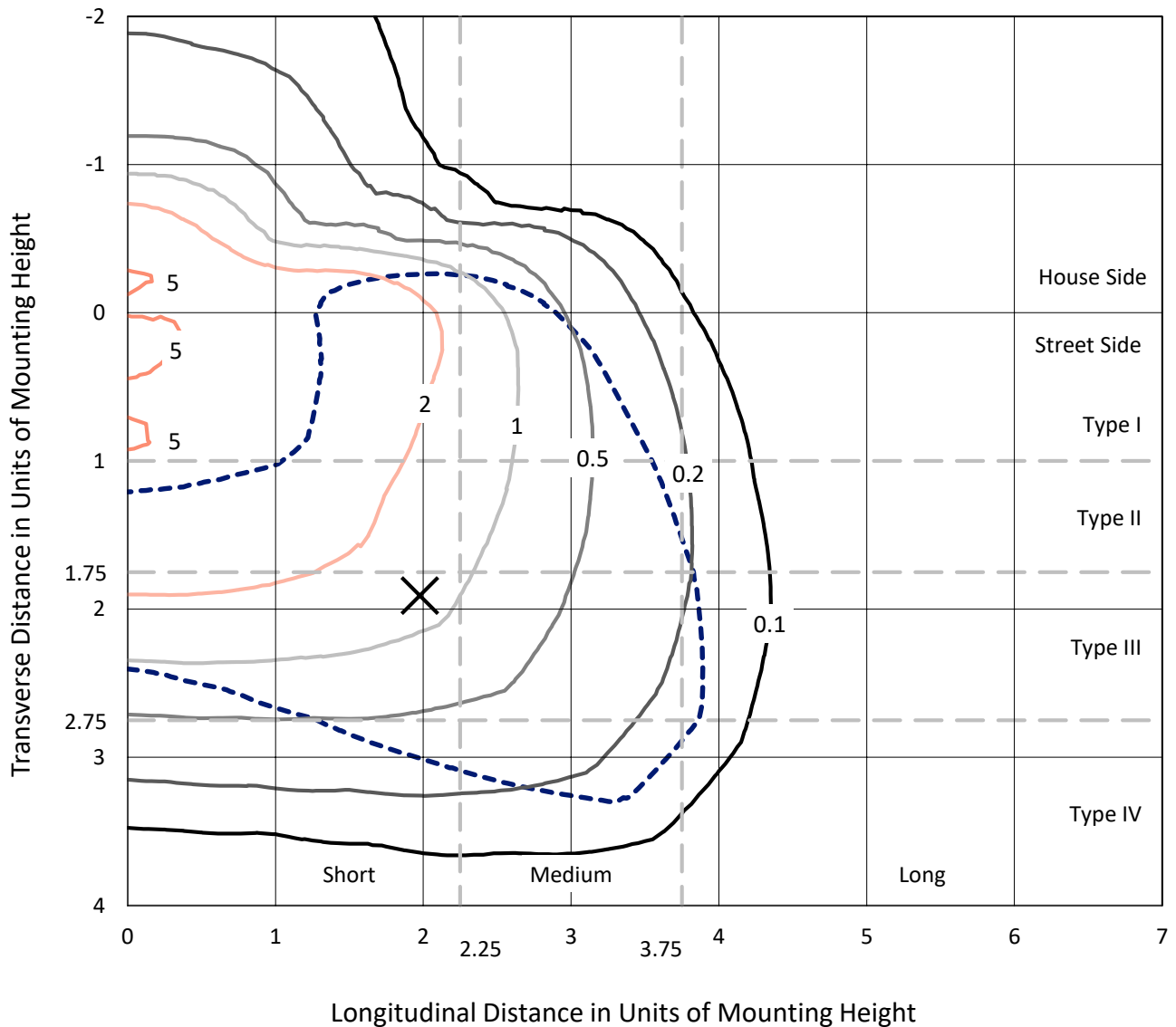
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

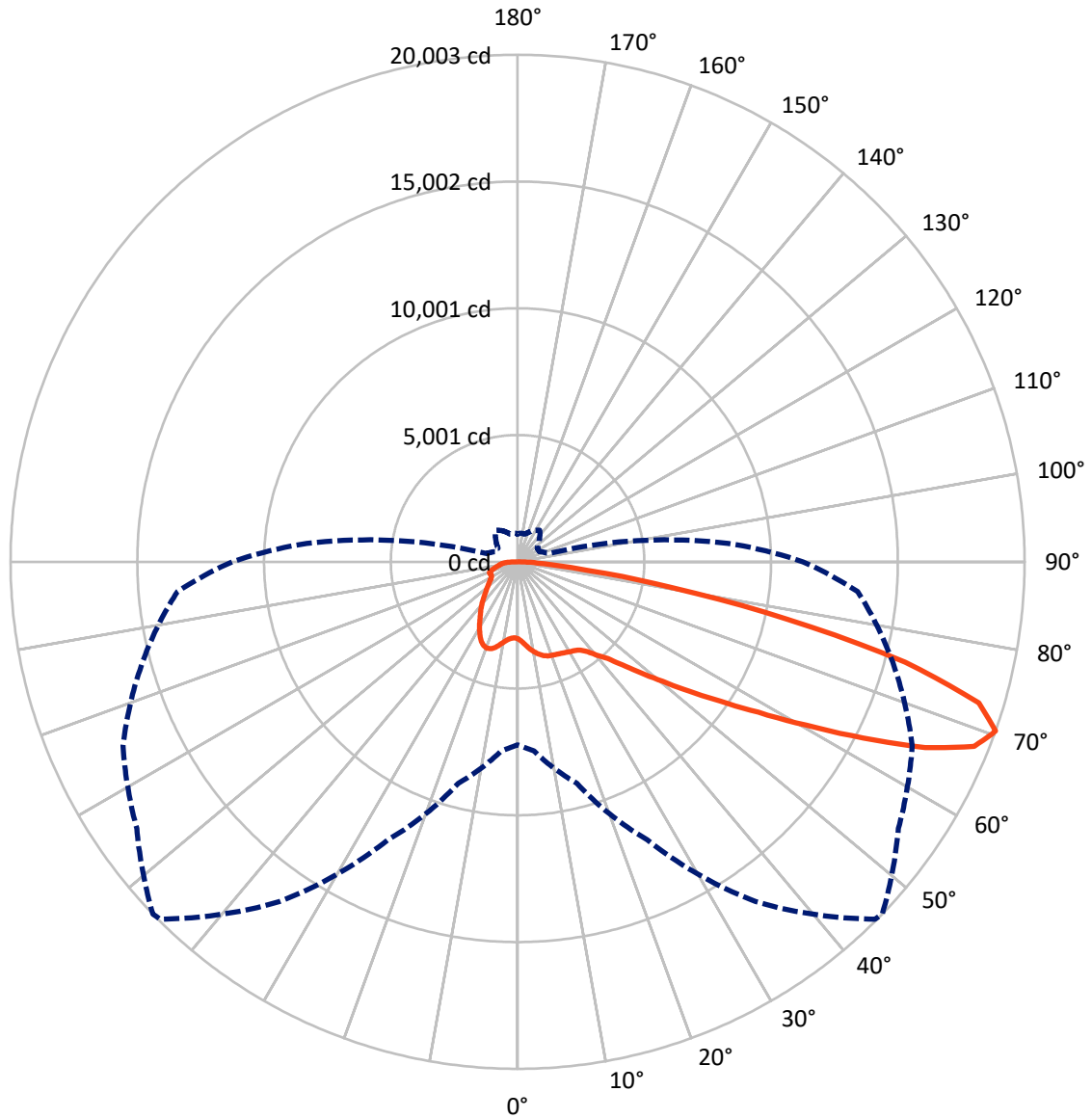
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6832.1	0.0	6832.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22976.9	0.0	22976.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	29809.0	0.0	29809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	1.0
10°-20°	1031.5	3.5
20°-30°	1719.9	5.8
30°-40°	2440.6	8.2
40°-50°	3590.0	12.0
50°-60°	6079.6	20.4
60°-70°	8629.9	29.0
70°-80°	5242.8	17.6
80°-90°	765.1	2.6
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°	29809.0	100.0
0°-180°	29809.0	100.0

Coefficient of Utilization

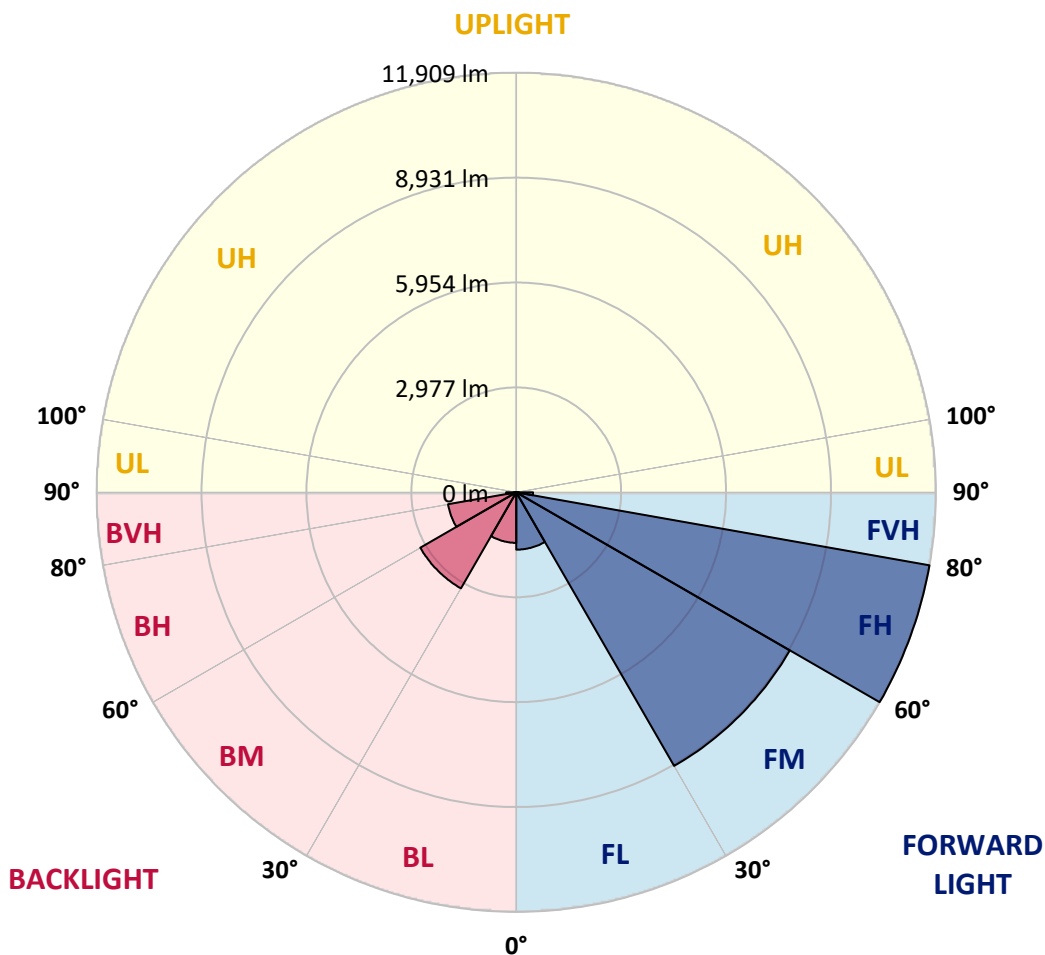


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.5	5.5			
FM (30°-60°)	8965.2	30.1			
FH (60°-80°)	11908.5	39.9			G4/12000
FVH (80°-90°)	476.6	1.6			G3/500
BL (0°-30°)	1434.4	4.8	B3/2500		
BM (30°-60°)	3145.0	10.6	B3/5000		
BH (60°-80°)	1964.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	288.5	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0
2.5°	3189.0	3191.0	3195.1	3184.9	3156.3	3148.1	3145.1	3115.5	3096.1	3067.6	3043.1
5°	3444.0	3446.0	3439.9	3411.3	3348.1	3301.2	3297.1	3229.8	3168.6	3103.3	3054.3
7.5°	3710.2	3713.3	3693.9	3639.9	3551.1	3469.5	3464.4	3372.6	3279.7	3180.8	3107.3
10°	3945.9	3933.7	3902.0	3826.5	3721.5	3621.5	3617.4	3521.5	3414.4	3295.0	3197.1
12.5°	4103.0	4092.8	4052.0	3960.2	3844.9	3753.1	3744.9	3656.2	3552.1	3421.5	3304.2
15°	4189.7	4196.9	4141.8	4037.7	3925.5	3848.0	3840.8	3777.6	3684.7	3553.1	3418.5
17.5°	4200.9	4207.1	4154.0	4051.0	3959.2	3906.1	3903.1	3861.2	3793.9	3667.4	3526.6
20°	4135.6	4139.7	4095.9	4011.2	3951.0	3934.7	3933.7	3915.3	3865.3	3753.1	3616.4
22.5°	4040.8	4043.8	4012.2	3951.0	3930.6	3956.1	3963.2	3956.1	3920.4	3815.3	3686.8
25°	4017.3	4015.3	3982.6	3920.4	3937.7	3991.8	4001.0	4004.0	3979.6	3887.7	3776.6
27.5°	4130.5	4123.4	4061.2	3961.2	3972.4	4037.7	4050.0	4079.5	4064.2	3983.6	3878.6
30°	4458.0	4445.8	4318.2	4116.3	4061.2	4094.8	4110.1	4157.1	4160.1	4092.8	4014.2
32.5°	5010.9	4995.6	4767.1	4406.0	4211.1	4153.0	4167.3	4237.7	4275.4	4223.4	4138.7
35°	5709.7	5692.4	5392.5	4898.7	4462.1	4264.2	4274.4	4330.5	4406.0	4332.5	4220.3
37.5°	6438.1	6396.3	6107.6	5478.1	4861.0	4501.9	4501.9	4509.0	4544.7	4391.7	4316.2
40°	7162.4	7120.6	6859.4	6159.6	5377.2	4876.3	4852.8	4694.7	4666.1	4534.5	4509.0
42.5°	7835.7	7823.4	7669.4	6929.8	5983.1	5244.5	5211.9	4943.6	4949.7	4868.1	4869.1
45°	8551.8	8551.8	8426.3	7707.1	6689.1	5836.2	5803.6	5408.8	5470.0	5432.2	5523.0
47.5°	9136.4	9154.7	9137.4	8517.1	7510.3	6588.1	6528.9	6053.5	6224.9	6354.4	6618.7
50°	9733.1	9761.7	9764.8	9405.7	8502.9	7481.7	7414.4	6909.4	7292.0	7663.3	8182.5
52.5°	10599.2	10663.5	10407.5	10292.2	9718.9	8542.6	8476.3	8010.1	8648.7	9170.0	10064.7
55°	11402.1	11346.0	11163.4	11234.8	11020.6	9750.5	9700.5	9291.4	10160.6	10838.0	11999.9
57.5°	11836.7	11832.6	12016.2	12322.3	12424.3	11239.9	11198.1	10800.2	11865.2	12374.3	13816.8
60°	12346.7	12353.9	12808.9	13503.6	13923.9	13094.5	13076.1	12774.2	13520.9	13808.6	15241.9
62.5°	12418.2	12546.7	13330.2	14525.8	15327.6	15261.3	15302.1	14552.3	15002.2	14953.2	16305.9
65°	11596.9	11766.3	13184.3	14834.9	16723.1	17631.1	17668.8	16340.6	16170.2	15931.5	16686.4
67.5°	9913.7	10164.7	11705.1	14162.6	17183.2	19382.6	19435.7	17727.0	17139.4	16263.1	15770.3
70°	7214.4	7492.9	9043.5	12095.8	16363.0	19942.7	20002.9	18340.1	17176.1	15319.4	13462.8
72.5°	4358.0	4576.3	5854.6	8904.8	13810.6	18922.6	19029.7	17562.7	15681.6	12976.2	9941.3
75°	1913.8	2056.6	2830.9	5131.3	9887.2	15656.1	15789.7	15032.8	12741.5	9430.2	5876.0
77.5°	815.1	855.9	1160.9	2229.0	5589.3	10698.2	10881.8	10983.8	8644.7	5131.3	2483.0
80°	508.0	524.4	657.0	1008.9	2615.6	6008.6	6206.5	6462.6	4292.7	1886.2	867.1
82.5°	309.1	327.5	436.6	610.0	1361.9	2723.8	2818.6	2999.2	1665.9	815.1	448.9
85°	185.7	198.9	267.3	385.6	775.3	1071.1	1070.1	1183.4	784.5	524.4	236.7
87.5°	88.8	99.0	142.8	199.9	390.7	401.9	376.4	426.4	476.4	343.8	119.4
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°	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0
2.5°	3034.9	3030.8	3017.6	3007.4	3005.3	2999.2	2994.1	2997.2	3001.2	3002.3	3002.3
5°	3033.9	3022.7	3005.3	2998.2	3007.4	3019.6	3034.9	3055.3	3067.6	3076.7	3082.9
7.5°	3082.9	3061.4	3042.1	3038.0	3056.3	3089.0	3123.7	3166.5	3196.1	3216.5	3220.6
10°	3164.5	3137.9	3118.6	3122.6	3155.3	3202.2	3251.2	3306.3	3351.2	3378.7	3380.7
12.5°	3258.3	3232.8	3214.5	3231.8	3285.9	3343.0	3394.0	3441.9	3482.8	3510.3	3510.3
15°	3366.5	3348.1	3326.7	3366.5	3439.9	3490.9	3512.3	3535.8	3558.2	3578.6	3574.6
17.5°	3470.5	3453.2	3441.9	3488.9	3565.4	3588.8	3574.6	3557.2	3557.2	3568.4	3570.5
20°	3560.3	3545.0	3552.1	3598.0	3637.8	3613.3	3560.3	3505.2	3482.8	3488.9	3495.0
22.5°	3638.8	3631.7	3653.1	3674.5	3646.0	3560.3	3462.4	3387.9	3360.3	3358.3	3360.3
25°	3730.6	3729.6	3756.2	3717.4	3590.9	3432.8	3301.2	3228.7	3213.4	3225.7	3246.1
27.5°	3844.9	3856.1	3869.4	3727.6	3478.7	3240.0	3106.3	3056.3	3071.6	3101.2	3120.6
30°	3990.8	4021.4	3992.8	3702.1	3317.5	3019.6	2892.1	2877.8	2919.6	2961.5	2981.9
32.5°	4132.6	4180.5	4111.2	3635.8	3109.4	2786.0	2687.0	2683.0	2734.0	2774.8	2803.3
35°	4246.8	4341.7	4199.9	3504.2	2868.6	2570.8	2498.3	2470.8	2489.1	2537.1	2569.7
37.5°	4395.8	4553.9	4261.1	3303.2	2607.5	2393.2	2308.6	2245.3	2229.0	2248.4	2264.7
40°	4668.2	4877.3	4289.7	3022.7	2352.4	2215.7	2130.1	2037.2	1972.9	1926.0	1927.0
42.5°	5112.9	5298.6	4271.3	2681.9	2116.8	2042.3	1945.4	1838.3	1734.2	1628.1	1620.0
45°	5835.2	5925.0	4216.2	2320.8	1909.7	1860.7	1769.9	1662.8	1524.1	1403.7	1392.5
47.5°	6991.0	6792.1	4130.5	2005.6	1727.1	1706.7	1623.0	1499.6	1352.7	1255.8	1247.6
50°	8567.1	8043.8	4088.7	1754.6	1565.9	1572.0	1503.7	1373.1	1234.4	1163.0	1154.8
52.5°	10452.3	9501.6	4169.3	1560.8	1436.4	1457.8	1406.8	1284.4	1168.1	1112.0	1103.8
55°	12408.0	11011.4	4256.0	1420.0	1313.9	1355.8	1338.4	1237.4	1132.4	1080.3	1073.2
57.5°	14082.0	12138.6	4082.6	1305.8	1204.8	1270.1	1285.4	1207.8	1114.0	1067.1	1058.9
60°	15135.8	12592.6	3627.6	1198.7	1118.1	1201.7	1254.8	1199.7	1121.1	1117.1	1110.9
62.5°	15635.7	12552.8	2945.1	1114.0	1064.0	1172.1	1277.2	1245.6	1202.7	1239.5	1242.5
65°	15411.2	11953.0	2193.3	1057.9	1025.2	1183.4	1344.5	1332.3	1226.2	1262.9	1268.0
67.5°	13934.1	10521.7	1624.1	1008.9	982.4	1215.0	1467.0	1360.9	1180.3	1206.8	1190.5
70°	11262.3	8341.7	1252.7	953.8	938.5	1210.9	1522.0	1343.5	1130.3	1136.4	1092.6
72.5°	7766.3	5688.3	1019.1	902.8	875.3	1103.8	1483.3	1300.7	1088.5	1041.6	983.4
75°	4223.4	3053.3	866.1	849.8	764.1	969.1	1411.9	1270.1	1050.7	988.5	955.9
77.5°	1661.8	1267.0	751.8	777.3	668.2	855.9	1332.3	1211.9	998.7	917.1	900.8
80°	678.4	646.8	623.3	672.3	574.3	748.8	1236.4	1143.6	936.5	850.8	818.2
82.5°	384.6	401.9	484.6	530.5	466.2	689.6	1190.5	1088.5	862.0	762.0	723.3
85°	196.9	235.7	337.7	380.5	342.8	586.6	1096.6	952.8	691.7	583.5	586.6
87.5°	94.9	131.6	213.2	238.7	222.4	424.4	819.2	690.6	538.6	426.4	413.2
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)