

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: P319019

Luminaire Tested: **GAN-SA5D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319019
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-SA5D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35070 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

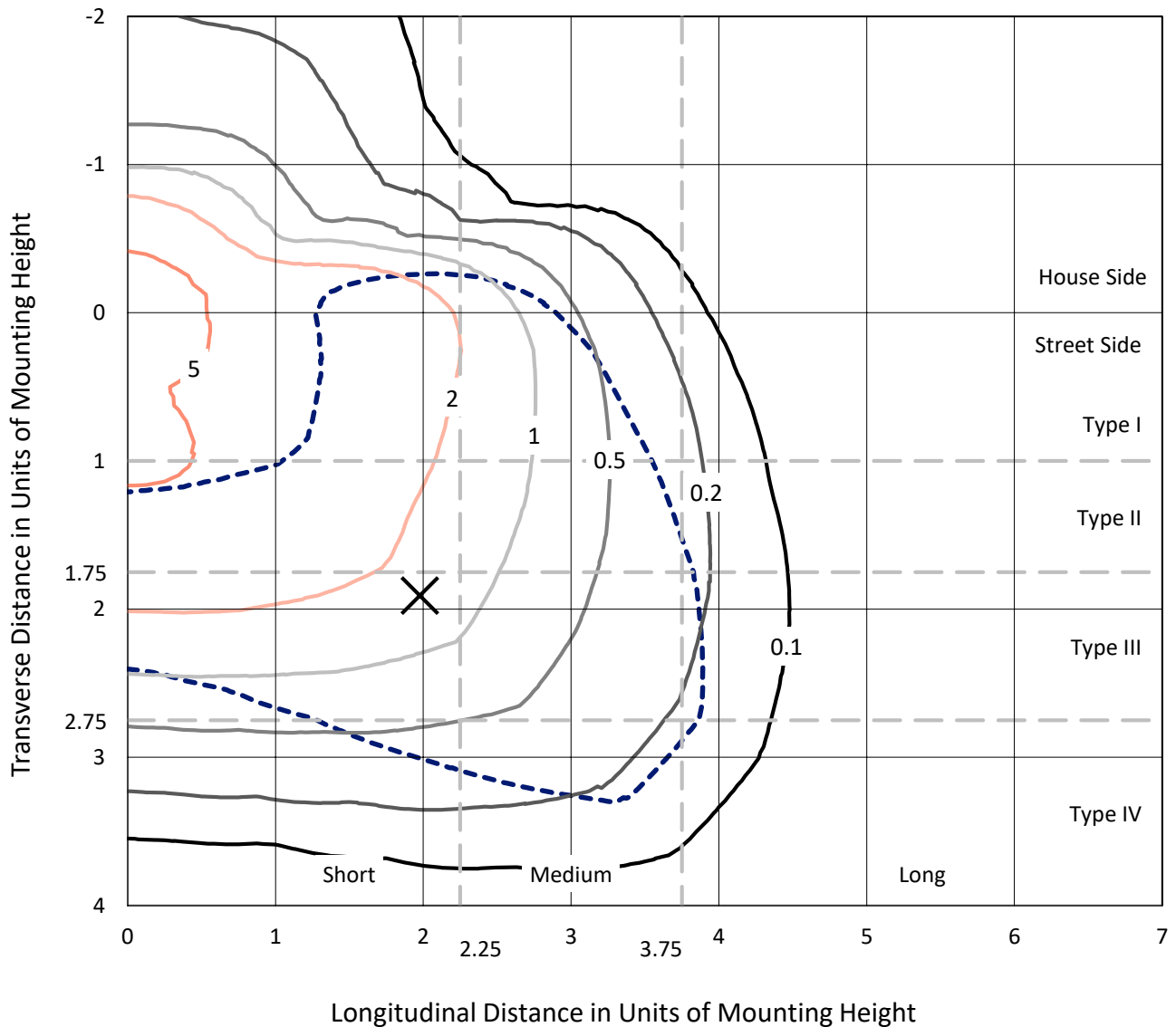
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

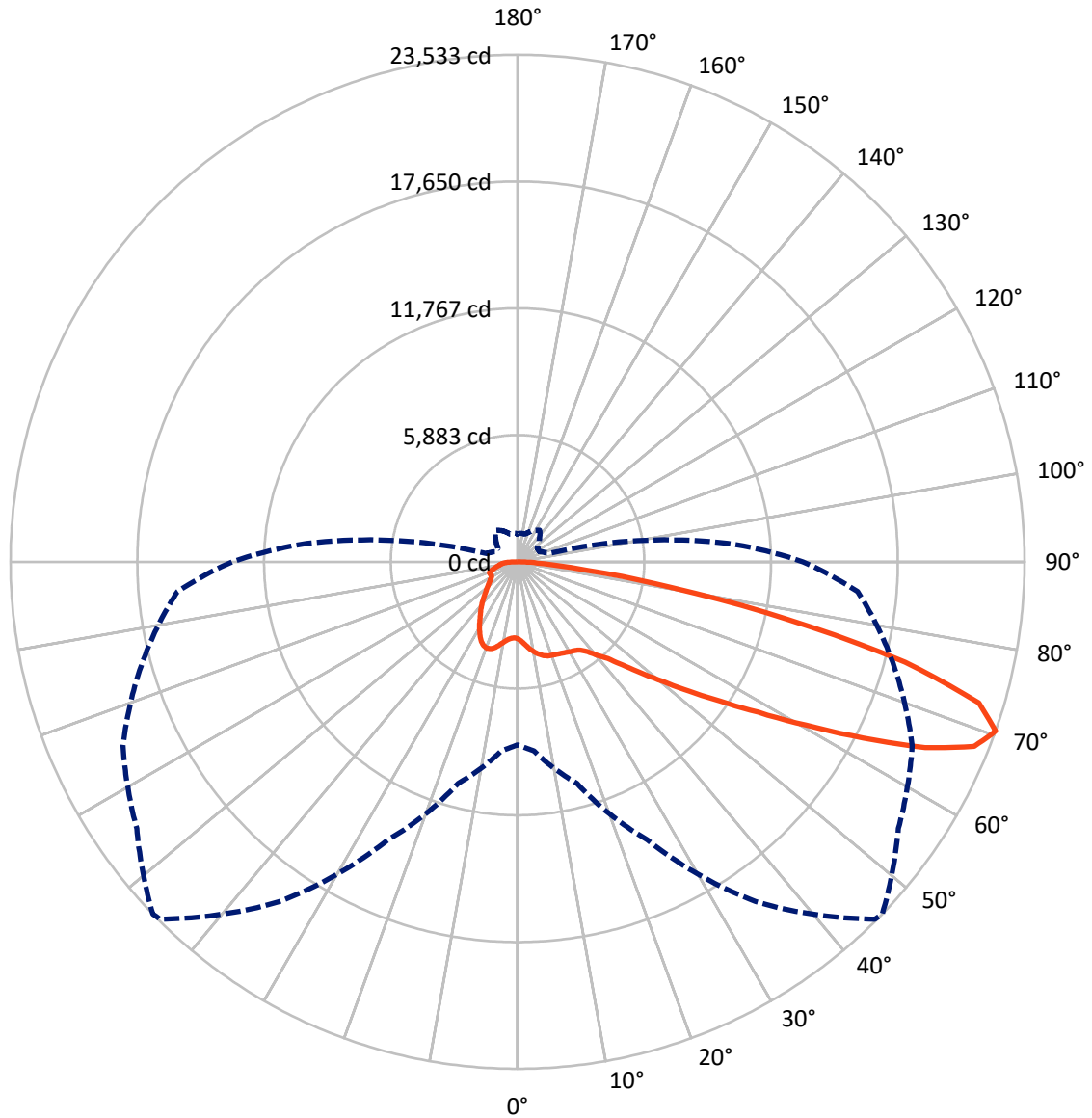
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	8037.9	0.0	8037.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	27032.1	0.0	27032.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	35070.0	0.0	35070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	1.0
10°-20°	1213.5	3.5
20°-30°	2023.4	5.8
30°-40°	2871.3	8.2
40°-50°	4223.6	12.0
50°-60°	7152.6	20.4
60°-70°	10153.0	29.0
70°-80°	6168.1	17.6
80°-90°	900.1	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°	35070.0	100.0
0°-180°	35070.0	100.0

Coefficient of Utilization



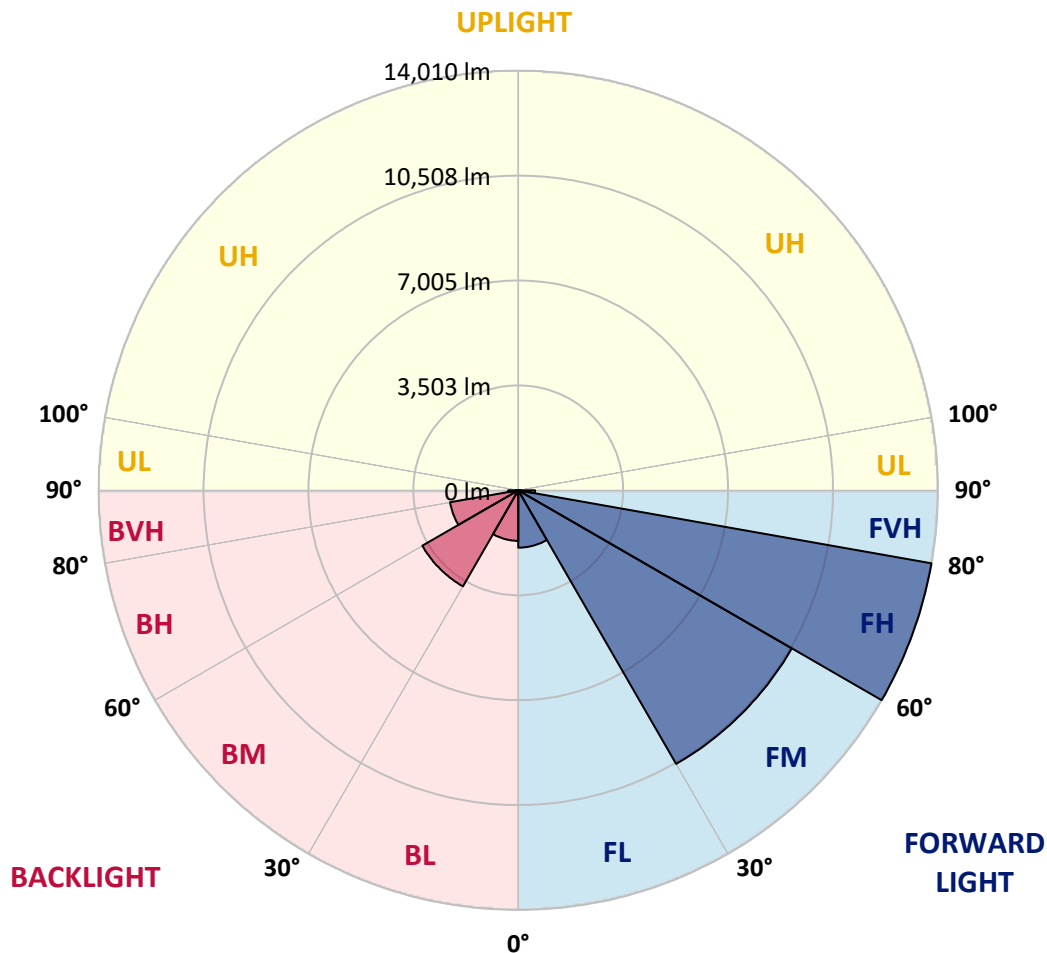
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1913.6	5.5			
FM (30°-60°)	10547.5	30.1			
FH (60°-80°)	14010.3	39.9			G5
FVH (80°-90°)	560.7	1.6			G4/750
BL (0°-30°)	1687.6	4.8	B3/2500		
BM (30°-60°)	3700.1	10.6	B3/5000		
BH (60°-80°)	2310.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	339.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9
2.5°	3751.8	3754.2	3759.0	3747.0	3713.4	3703.8	3700.2	3665.4	3642.6	3609.0	3580.1
5°	4051.8	4054.2	4047.0	4013.4	3939.0	3883.8	3879.0	3799.8	3727.8	3651.0	3593.3
7.5°	4365.1	4368.7	4345.9	4282.3	4177.8	4081.8	4075.8	3967.8	3858.6	3742.2	3655.8
10°	4642.3	4627.9	4590.7	4501.9	4378.3	4260.7	4255.9	4143.0	4017.0	3876.6	3761.4
12.5°	4827.1	4815.1	4767.1	4659.1	4523.5	4415.5	4405.9	4301.5	4179.0	4025.4	3887.4
15°	4929.2	4937.6	4872.7	4750.3	4618.3	4527.1	4518.7	4444.3	4335.1	4180.2	4021.8
17.5°	4942.4	4949.6	4887.1	4765.9	4657.9	4595.5	4591.9	4542.7	4463.5	4314.7	4149.0
20°	4865.5	4870.3	4818.7	4719.1	4648.3	4629.1	4627.9	4606.3	4547.5	4415.5	4254.7
22.5°	4753.9	4757.5	4720.3	4648.3	4624.3	4654.3	4662.7	4654.3	4612.3	4488.7	4337.5
25°	4726.3	4723.9	4685.5	4612.3	4632.7	4696.3	4707.1	4710.7	4681.9	4573.9	4443.1
27.5°	4859.5	4851.1	4777.9	4660.3	4673.5	4750.3	4764.7	4799.5	4781.5	4686.7	4563.1
30°	5244.8	5230.4	5080.4	4842.7	4777.9	4817.5	4835.5	4890.7	4894.3	4815.1	4722.7
32.5°	5895.3	5877.3	5608.5	5183.6	4954.4	4885.9	4902.7	4985.6	5030.0	4968.8	4869.1
35°	6717.4	6697.0	6344.2	5763.3	5249.6	5016.8	5028.8	5094.8	5183.6	5097.2	4965.2
37.5°	7574.4	7525.2	7185.5	6445.0	5718.9	5296.4	5296.4	5304.8	5346.8	5166.8	5078.0
40°	8426.5	8377.3	8070.0	7246.7	6326.2	5736.9	5709.3	5523.2	5489.6	5334.8	5304.8
42.5°	9218.6	9204.2	9023.0	8152.8	7039.1	6170.1	6131.7	5816.1	5823.3	5727.3	5728.5
45°	10061.1	10061.1	9913.5	9067.4	7869.6	6866.3	6827.8	6363.4	6435.4	6391.0	6497.8
47.5°	10748.8	10770.4	10750.0	10020.3	8835.8	7750.8	7681.2	7121.9	7323.5	7475.9	7786.8
50°	11451.0	11484.6	11488.2	11065.7	10003.5	8802.1	8722.9	8128.8	8578.9	9015.8	9626.7
52.5°	12469.9	12545.5	12244.3	12108.7	11434.1	10050.3	9972.3	9423.8	10175.2	10788.5	11841.0
55°	13414.5	13348.4	13133.6	13217.6	12965.6	11471.4	11412.5	10931.3	11953.8	12750.8	14117.8
57.5°	13925.7	13920.9	14137.0	14497.0	14617.0	13223.6	13174.4	12706.3	13959.3	14558.2	16255.3
60°	14525.8	14534.2	15069.5	15886.8	16381.3	15405.6	15384.0	15028.7	15907.2	16245.7	17931.9
62.5°	14609.8	14761.1	15682.8	17089.4	18032.8	17954.7	18002.8	17120.6	17649.9	17592.3	19183.7
65°	13643.7	13842.9	15511.2	17453.1	19674.6	20742.8	20787.2	19224.5	19024.1	18743.3	19631.4
67.5°	11663.4	11958.6	13770.9	16662.1	20215.9	22803.5	22865.9	20855.6	20164.3	19133.3	18553.6
70°	8487.7	8815.3	10639.6	14230.6	19250.9	23462.4	23533.2	21576.9	20207.5	18023.2	15838.8
72.5°	5127.2	5384.0	6887.9	10476.4	16248.1	22262.2	22388.2	20662.4	18449.2	15266.3	11695.8
75°	2251.5	2419.6	3330.5	6036.9	11632.2	18419.2	18576.4	17685.9	14990.3	11094.5	6913.1
77.5°	958.9	1007.0	1365.8	2622.4	6575.8	12586.3	12802.4	12922.4	10170.4	6036.9	2921.2
80°	597.7	616.9	772.9	1187.0	3077.3	7069.1	7301.9	7603.2	5050.4	2219.1	1020.2
82.5°	363.7	385.3	513.7	717.7	1602.2	3204.5	3316.1	3528.5	1959.9	958.9	528.1
85°	218.4	234.0	314.4	453.7	912.1	1260.2	1259.0	1392.2	922.9	616.9	278.4
87.5°	104.4	116.4	168.0	235.2	459.7	472.9	442.9	501.7	560.5	404.5	140.4
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°	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9	3572.9
2.5°	3570.5	3565.7	3550.1	3538.1	3535.7	3528.5	3522.5	3526.1	3530.9	3532.1	3532.1
5°	3569.3	3556.1	3535.7	3527.3	3538.1	3552.5	3570.5	3594.5	3609.0	3619.8	3627.0
7.5°	3627.0	3601.8	3578.9	3574.1	3595.8	3634.2	3675.0	3725.4	3760.2	3784.2	3789.0
10°	3723.0	3691.8	3669.0	3673.8	3712.2	3767.4	3825.0	3889.8	3942.6	3975.0	3977.4
12.5°	3833.4	3803.4	3781.8	3802.2	3865.8	3933.0	3993.0	4049.4	4097.4	4129.8	4129.8
15°	3960.6	3939.0	3913.8	3960.6	4047.0	4107.0	4132.2	4159.8	4186.2	4210.2	4205.4
17.5°	4083.0	4062.6	4049.4	4104.6	4194.6	4222.2	4205.4	4185.0	4185.0	4198.2	4200.6
20°	4188.6	4170.6	4179.0	4233.0	4279.9	4251.1	4188.6	4123.8	4097.4	4104.6	4111.8
22.5°	4281.1	4272.7	4297.9	4323.1	4289.5	4188.6	4073.4	3985.8	3953.4	3951.0	3953.4
25°	4389.1	4387.9	4419.1	4373.5	4224.6	4038.6	3883.8	3798.6	3780.6	3795.0	3819.0
27.5°	4523.5	4536.7	4552.3	4385.5	4092.6	3811.8	3654.6	3595.8	3613.8	3648.6	3671.4
30°	4695.1	4731.1	4697.5	4355.5	3903.0	3552.5	3402.5	3385.7	3434.9	3484.1	3508.1
32.5°	4861.9	4918.4	4836.7	4277.5	3658.2	3277.7	3161.3	3156.5	3216.5	3264.5	3298.1
35°	4996.4	5108.0	4941.2	4122.6	3374.9	3024.5	2939.2	2906.8	2928.4	2984.9	3023.3
37.5°	5171.6	5357.6	5013.2	3886.2	3067.7	2815.6	2716.0	2641.6	2622.4	2645.2	2664.4
40°	5492.0	5738.1	5046.8	3556.1	2767.6	2606.8	2506.0	2396.8	2321.2	2265.9	2267.1
42.5°	6015.3	6233.8	5025.2	3155.3	2490.4	2402.8	2288.8	2162.7	2040.3	1915.5	1905.9
45°	6865.1	6970.7	4960.4	2730.4	2246.7	2189.1	2082.3	1956.3	1793.1	1651.5	1638.3
47.5°	8224.9	7990.8	4859.5	2359.6	2031.9	2007.9	1909.5	1764.3	1591.4	1477.4	1467.8
50°	10079.1	9463.4	4810.3	2064.3	1842.3	1849.5	1769.1	1615.4	1452.2	1368.2	1358.6
52.5°	12297.1	11178.5	4905.2	1836.3	1689.9	1715.1	1655.1	1511.0	1374.2	1308.2	1298.6
55°	14597.8	12954.8	5007.2	1670.7	1545.8	1595.0	1574.6	1455.8	1332.2	1271.0	1262.6
57.5°	16567.3	14281.0	4803.1	1536.2	1417.4	1494.2	1512.2	1421.0	1310.6	1255.4	1245.8
60°	17807.1	14815.1	4267.9	1410.2	1315.4	1413.8	1476.2	1411.4	1319.0	1314.2	1307.0
62.5°	18395.2	14768.3	3464.9	1310.6	1251.8	1379.0	1502.6	1465.4	1415.0	1458.2	1461.8
65°	18131.2	14062.6	2580.4	1244.6	1206.2	1392.2	1581.8	1567.4	1442.6	1485.8	1491.8
67.5°	16393.3	12378.7	1910.7	1187.0	1155.8	1429.4	1725.9	1601.0	1388.6	1419.8	1400.6
70°	13250.0	9813.9	1473.8	1122.2	1104.2	1424.6	1790.7	1580.6	1329.8	1337.0	1285.4
72.5°	9137.0	6692.2	1199.0	1062.2	1029.8	1298.6	1745.1	1530.2	1280.6	1225.4	1157.0
75°	4968.8	3592.1	1019.0	999.8	898.9	1140.2	1661.1	1494.2	1236.2	1163.0	1124.6
77.5°	1955.1	1490.6	884.5	914.5	786.1	1007.0	1567.4	1425.8	1175.0	1079.0	1059.8
80°	798.1	760.9	733.3	790.9	675.7	880.9	1454.6	1345.4	1101.8	1001.0	962.5
82.5°	452.5	472.9	570.1	624.1	548.5	811.3	1400.6	1280.6	1014.2	896.5	850.9
85°	231.6	277.2	397.3	447.7	403.3	690.1	1290.2	1121.0	813.7	686.5	690.1
87.5°	111.6	154.8	250.8	280.8	261.6	499.3	963.7	812.5	633.7	501.7	486.1
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)