

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: P319001

Luminaire Tested: **GAN-SA7B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319001
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-SA7B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36554 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

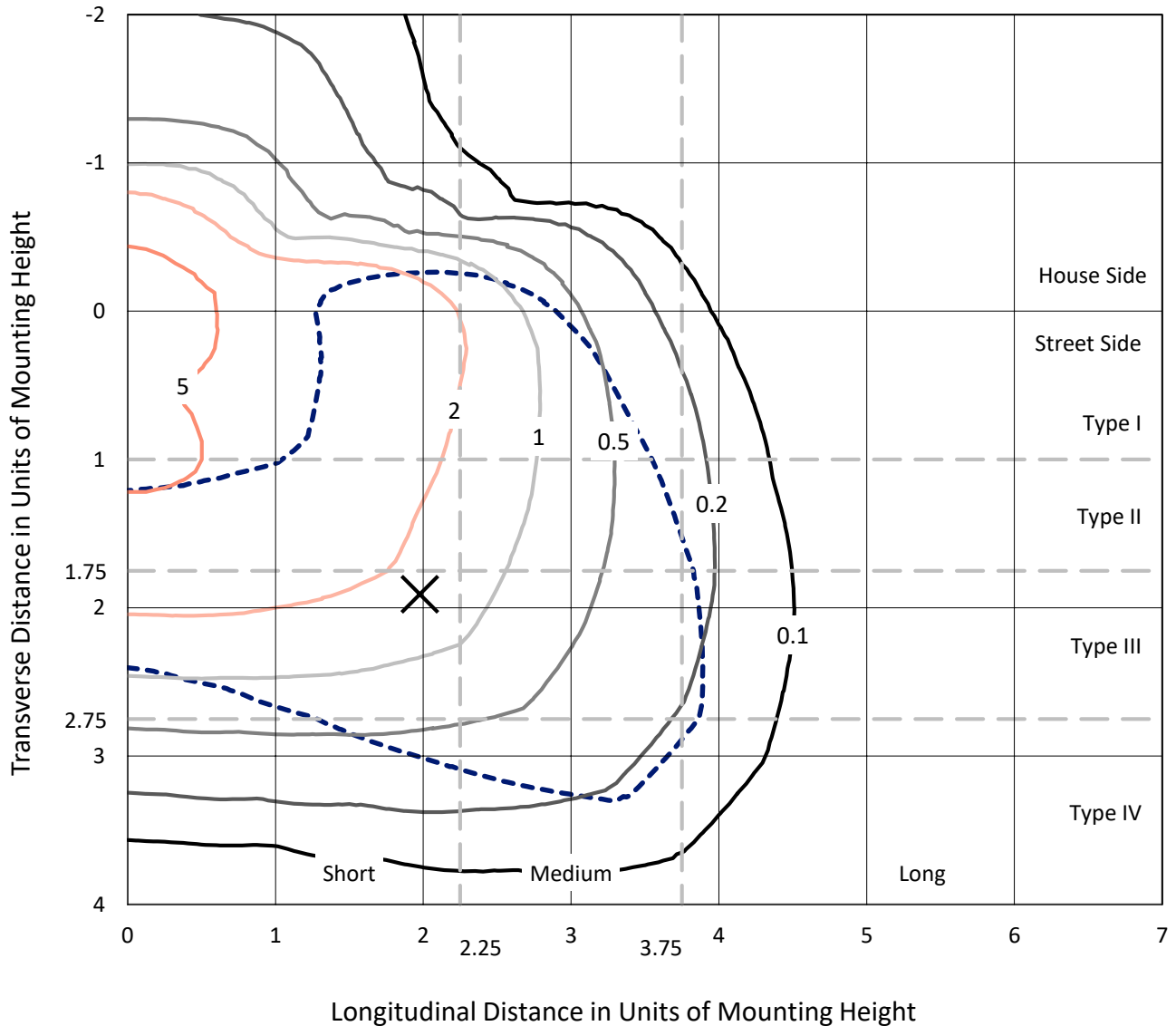
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

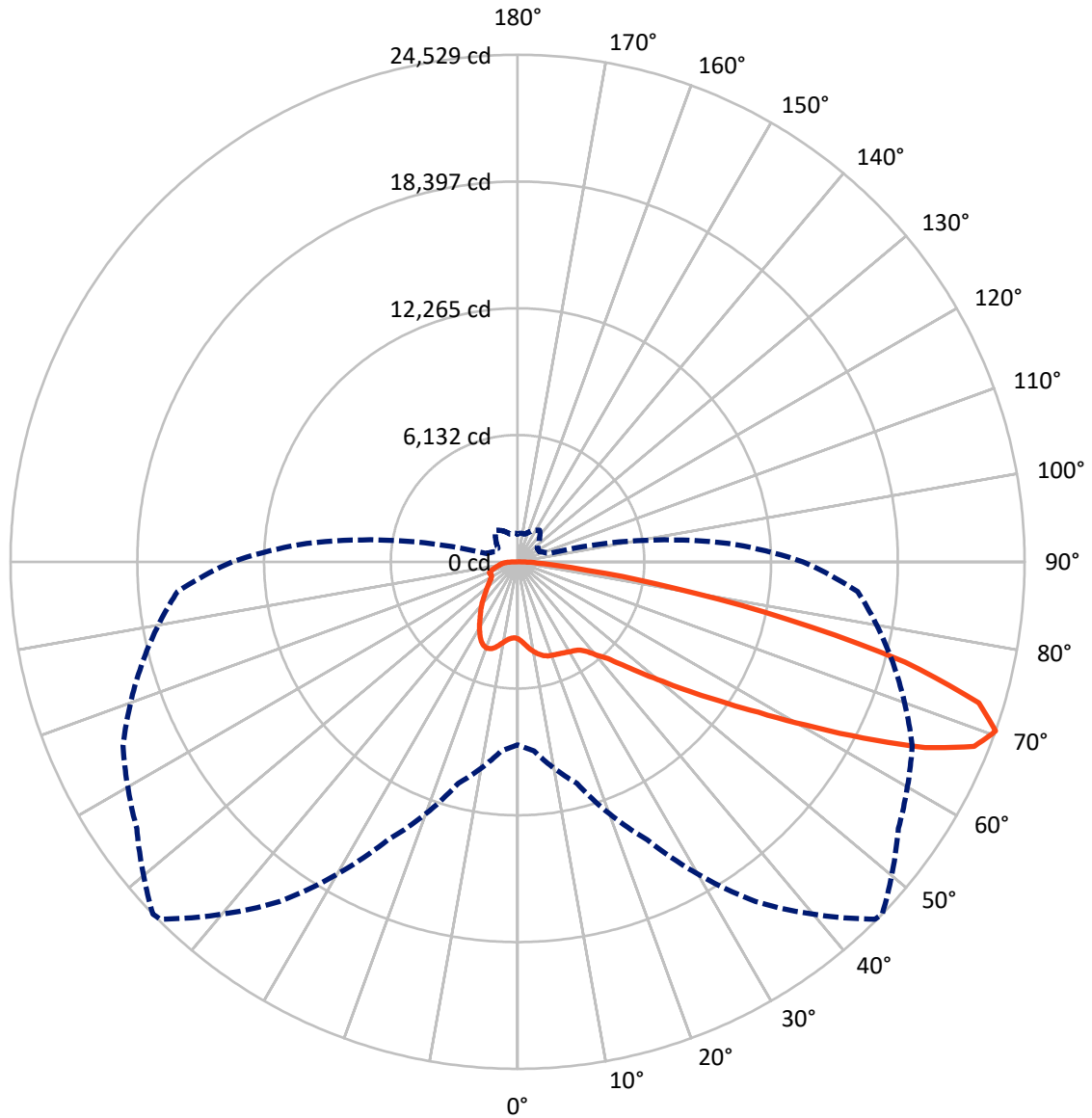
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	8378.1	0.0	8378.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28175.9	0.0	28175.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	36554.0	0.0	36554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.6	1.0
10°-20°	1264.9	3.5
20°-30°	2109.0	5.8
30°-40°	2992.8	8.2
40°-50°	4402.3	12.0
50°-60°	7455.3	20.4
60°-70°	10582.7	29.0
70°-80°	6429.1	17.6
80°-90°	938.2	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°	36554.0	100.0
0°-180°	36554.0	100.0

Coefficient of Utilization

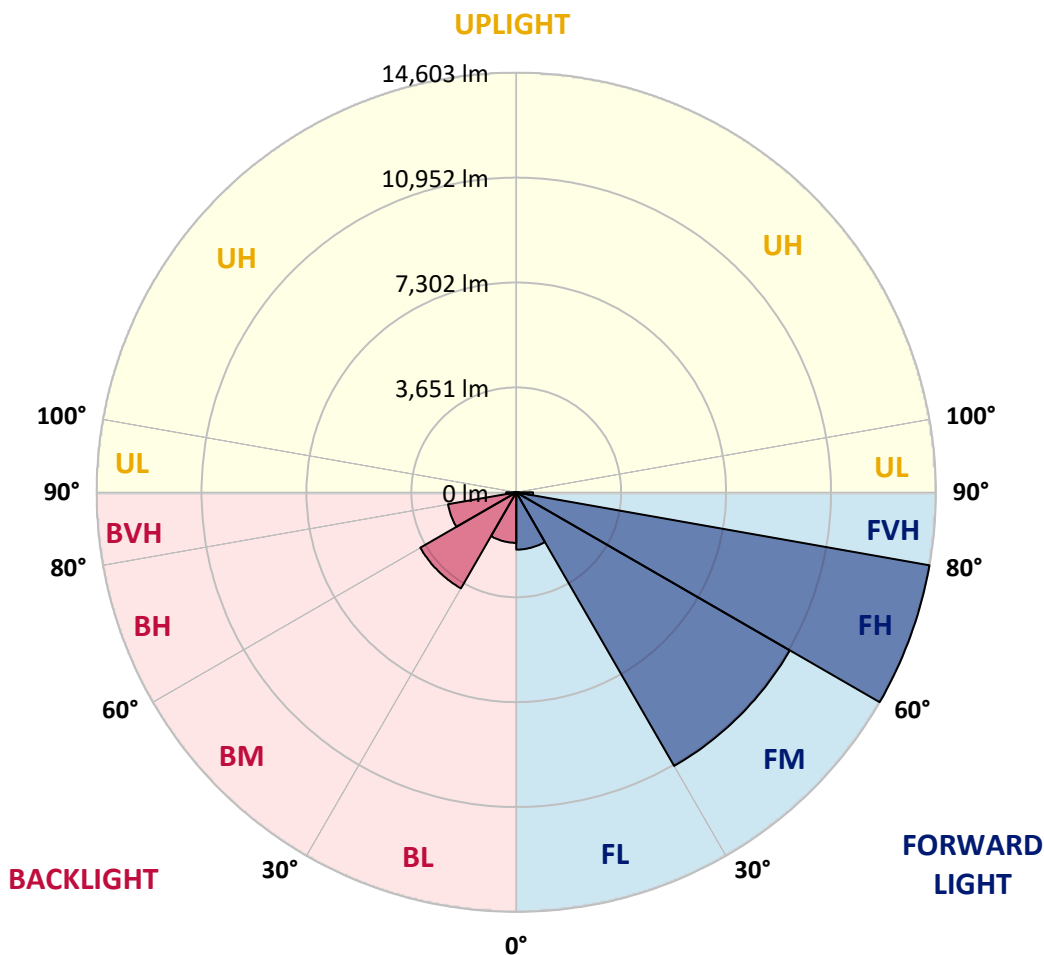


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1994.6	5.5			
FM (30°-60°)	10993.8	30.1			
FH (60°-80°)	14603.1	39.9			G5
FVH (80°-90°)	584.4	1.6			G4/750
BL (0°-30°)	1759.0	4.8	B3/2500		
BM (30°-60°)	3856.6	10.6	B3/5000		
BH (60°-80°)	2408.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	353.8	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1
2.5°	3910.5	3913.0	3918.0	3905.5	3870.5	3860.5	3856.7	3820.5	3796.7	3761.7	3731.6
5°	4223.3	4225.8	4218.3	4183.2	4105.7	4048.1	4043.1	3960.6	3885.5	3805.5	3745.4
7.5°	4549.8	4553.5	4529.8	4463.5	4354.6	4254.5	4248.3	4135.7	4021.9	3900.5	3810.5
10°	4838.8	4823.7	4785.0	4692.4	4563.5	4440.9	4435.9	4318.3	4187.0	4040.6	3920.5
12.5°	5031.4	5018.9	4968.9	4856.3	4714.9	4602.3	4592.3	4483.5	4355.9	4195.8	4051.9
15°	5137.7	5146.5	5078.9	4951.3	4813.7	4718.7	4709.9	4632.3	4518.5	4357.1	4192.0
17.5°	5151.5	5159.0	5093.9	4967.6	4855.0	4790.0	4786.2	4734.9	4652.4	4497.2	4324.6
20°	5071.4	5076.4	5022.6	4918.8	4845.0	4825.0	4823.7	4801.2	4739.9	4602.3	4434.7
22.5°	4955.1	4958.8	4920.1	4845.0	4820.0	4851.3	4860.0	4851.3	4807.5	4678.6	4521.0
25°	4926.3	4923.8	4883.8	4807.5	4828.7	4895.0	4906.3	4910.1	4880.0	4767.4	4631.1
27.5°	5065.2	5056.4	4980.1	4857.5	4871.3	4951.3	4966.4	5002.6	4983.9	4885.0	4756.2
30°	5466.7	5451.7	5295.4	5047.7	4980.1	5021.4	5040.2	5097.7	5101.5	5018.9	4922.6
32.5°	6144.8	6126.0	5845.8	5402.9	5164.0	5092.7	5110.2	5196.5	5242.8	5179.0	5075.2
35°	7001.7	6980.4	6612.6	6007.2	5471.7	5229.1	5241.6	5310.4	5402.9	5312.9	5175.3
37.5°	7894.9	7843.6	7489.6	6717.7	5960.9	5520.5	5520.5	5529.3	5573.1	5385.4	5292.9
40°	8783.1	8731.8	8411.5	7553.4	6593.9	5979.6	5950.9	5757.0	5721.9	5560.6	5529.3
42.5°	9608.7	9593.7	9404.8	8497.8	7336.9	6431.2	6391.2	6062.2	6069.7	5969.6	5970.9
45°	10486.9	10486.9	10333.0	9451.1	8202.6	7156.8	7116.8	6632.6	6707.7	6661.4	6772.8
47.5°	11203.7	11226.2	11204.9	10444.3	9209.6	8078.8	8006.2	7423.3	7633.4	7792.3	8116.3
50°	11935.5	11970.5	11974.3	11533.9	10426.8	9174.6	9092.0	8472.8	8941.9	9397.3	10034.0
52.5°	12997.6	13076.4	12762.4	12621.0	11918.0	10475.6	10394.3	9822.6	10605.7	11245.0	12342.1
55°	13982.1	13913.3	13689.4	13776.9	13514.2	11956.8	11895.5	11393.8	12459.7	13290.3	14715.2
57.5°	14515.0	14510.0	14735.2	15110.5	15235.6	13783.2	13731.9	13244.0	14550.0	15174.3	16943.1
60°	15140.5	15149.2	15707.2	16559.1	17074.5	16057.4	16034.9	15664.6	16580.4	16933.1	18690.7
62.5°	15228.1	15385.7	16346.4	17812.6	18795.8	18714.5	18764.5	17845.1	18396.8	18336.7	19995.5
65°	14221.0	14428.7	16167.5	18191.6	20507.1	21620.5	21666.8	20038.0	19829.1	19536.4	20462.1
67.5°	12156.9	12464.7	14353.6	17367.2	21071.3	23768.4	23833.5	21738.1	21017.5	19943.0	19338.7
70°	8846.9	9188.4	11089.8	14832.7	20065.6	24455.2	24529.0	22489.9	21062.6	18785.8	16509.0
72.5°	5344.1	5611.9	7179.3	10919.7	16935.6	23204.2	23335.6	21536.7	19229.9	15912.3	12190.7
75°	2346.8	2522.0	3471.4	6292.4	12124.4	19198.6	19362.5	18434.3	15624.6	11564.0	7205.6
77.5°	999.5	1049.6	1423.6	2733.4	6854.1	13118.9	13344.1	13469.2	10600.7	6292.4	3044.9
80°	623.0	643.0	805.6	1237.2	3207.5	7368.2	7610.9	7924.9	5264.1	2313.0	1063.3
82.5°	379.0	401.6	535.4	748.1	1670.0	3340.1	3456.4	3677.9	2042.8	999.5	550.4
85°	227.7	243.9	327.8	472.9	950.7	1313.5	1312.3	1451.1	962.0	643.0	290.2
87.5°	108.8	121.3	175.1	245.2	479.1	492.9	461.6	522.9	584.2	421.6	146.4
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°	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1	3724.1
2.5°	3721.6	3716.6	3700.4	3687.9	3685.4	3677.9	3671.6	3675.3	3680.4	3681.6	3681.6
5°	3720.4	3706.6	3685.4	3676.6	3687.9	3702.9	3721.6	3746.7	3761.7	3772.9	3780.4
7.5°	3780.4	3754.2	3730.4	3725.4	3747.9	3787.9	3830.5	3883.0	3919.3	3944.3	3949.3
10°	3880.5	3848.0	3824.2	3829.2	3869.2	3926.8	3986.8	4054.4	4109.4	4143.2	4145.7
12.5°	3995.6	3964.3	3941.8	3963.1	4029.4	4099.4	4162.0	4220.8	4270.8	4304.6	4304.6
15°	4128.2	4105.7	4079.4	4128.2	4218.3	4280.8	4307.1	4335.9	4363.4	4388.4	4383.4
17.5°	4255.8	4234.5	4220.8	4278.3	4372.1	4400.9	4383.4	4362.1	4362.1	4375.9	4378.4
20°	4365.9	4347.1	4355.9	4412.2	4461.0	4430.9	4365.9	4298.3	4270.8	4278.3	4285.8
22.5°	4462.2	4453.5	4479.7	4506.0	4471.0	4365.9	4245.8	4154.5	4120.7	4118.2	4120.7
25°	4574.8	4573.5	4606.1	4558.5	4403.4	4209.5	4048.1	3959.3	3940.6	3955.6	3980.6
27.5°	4714.9	4728.7	4744.9	4571.0	4265.8	3973.1	3809.2	3747.9	3766.7	3802.9	3826.7
30°	4893.8	4931.3	4896.3	4539.8	4068.2	3702.9	3546.5	3529.0	3580.3	3631.6	3656.6
32.5°	5067.7	5126.5	5041.4	4458.5	3813.0	3416.4	3295.1	3290.1	3352.6	3402.6	3437.7
35°	5207.8	5324.1	5150.2	4297.1	3517.7	3152.4	3063.6	3029.8	3052.4	3111.2	3151.2
37.5°	5390.4	5584.3	5225.3	4050.6	3197.5	2934.8	2830.9	2753.4	2733.4	2757.1	2777.2
40°	5724.4	5980.9	5260.3	3706.6	2884.7	2717.1	2612.0	2498.2	2419.4	2361.8	2363.1
42.5°	6269.9	6497.5	5237.8	3288.8	2595.8	2504.4	2385.6	2254.2	2126.6	1996.5	1986.5
45°	7155.5	7265.6	5170.3	2846.0	2341.8	2281.8	2170.4	2039.1	1868.9	1721.3	1707.6
47.5°	8572.9	8329.0	5065.2	2459.4	2117.9	2092.9	1990.3	1838.9	1658.8	1539.9	1529.9
50°	10505.6	9863.9	5013.9	2151.7	1920.2	1927.7	1843.9	1683.8	1513.7	1426.1	1416.1
52.5°	12817.4	11651.5	5112.7	1914.0	1761.4	1787.6	1725.1	1575.0	1432.4	1363.6	1353.5
55°	15215.5	13503.0	5219.0	1741.3	1611.2	1662.5	1641.3	1517.4	1388.6	1324.8	1316.0
57.5°	17268.4	14885.3	5006.4	1601.2	1477.4	1557.5	1576.2	1481.1	1366.1	1308.5	1298.5
60°	18560.6	15442.0	4448.4	1469.9	1371.1	1473.6	1538.7	1471.1	1374.8	1369.8	1362.3
62.5°	19173.6	15393.2	3611.5	1366.1	1304.8	1437.4	1566.2	1527.4	1474.9	1519.9	1523.7
65°	18898.4	14657.6	2689.6	1297.3	1257.2	1451.1	1648.8	1633.8	1503.7	1548.7	1555.0
67.5°	17087.0	12902.5	1991.5	1237.2	1204.7	1489.9	1798.9	1668.8	1447.4	1479.9	1459.9
70°	13810.7	10229.2	1536.2	1169.7	1150.9	1484.9	1866.4	1647.5	1386.1	1393.6	1339.8
72.5°	9523.6	6975.4	1249.7	1107.1	1073.3	1353.5	1818.9	1595.0	1334.8	1277.2	1205.9
75°	5179.0	3744.2	1062.1	1042.1	937.0	1188.4	1731.3	1557.5	1288.5	1212.2	1172.2
77.5°	2037.8	1553.7	922.0	953.2	819.4	1049.6	1633.8	1486.2	1224.7	1124.6	1104.6
80°	831.9	793.1	764.3	824.4	704.3	918.2	1516.2	1402.3	1148.4	1043.3	1003.3
82.5°	471.6	492.9	594.2	650.5	571.7	845.7	1459.9	1334.8	1057.1	934.5	886.9
85°	241.4	289.0	414.1	466.6	420.3	719.3	1344.8	1168.4	848.2	715.6	719.3
87.5°	116.3	161.4	261.5	292.7	272.7	520.4	1004.5	846.9	660.5	522.9	506.6
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)