

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: P319748

Luminaire Tested: **GAN-SA4A-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18799 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

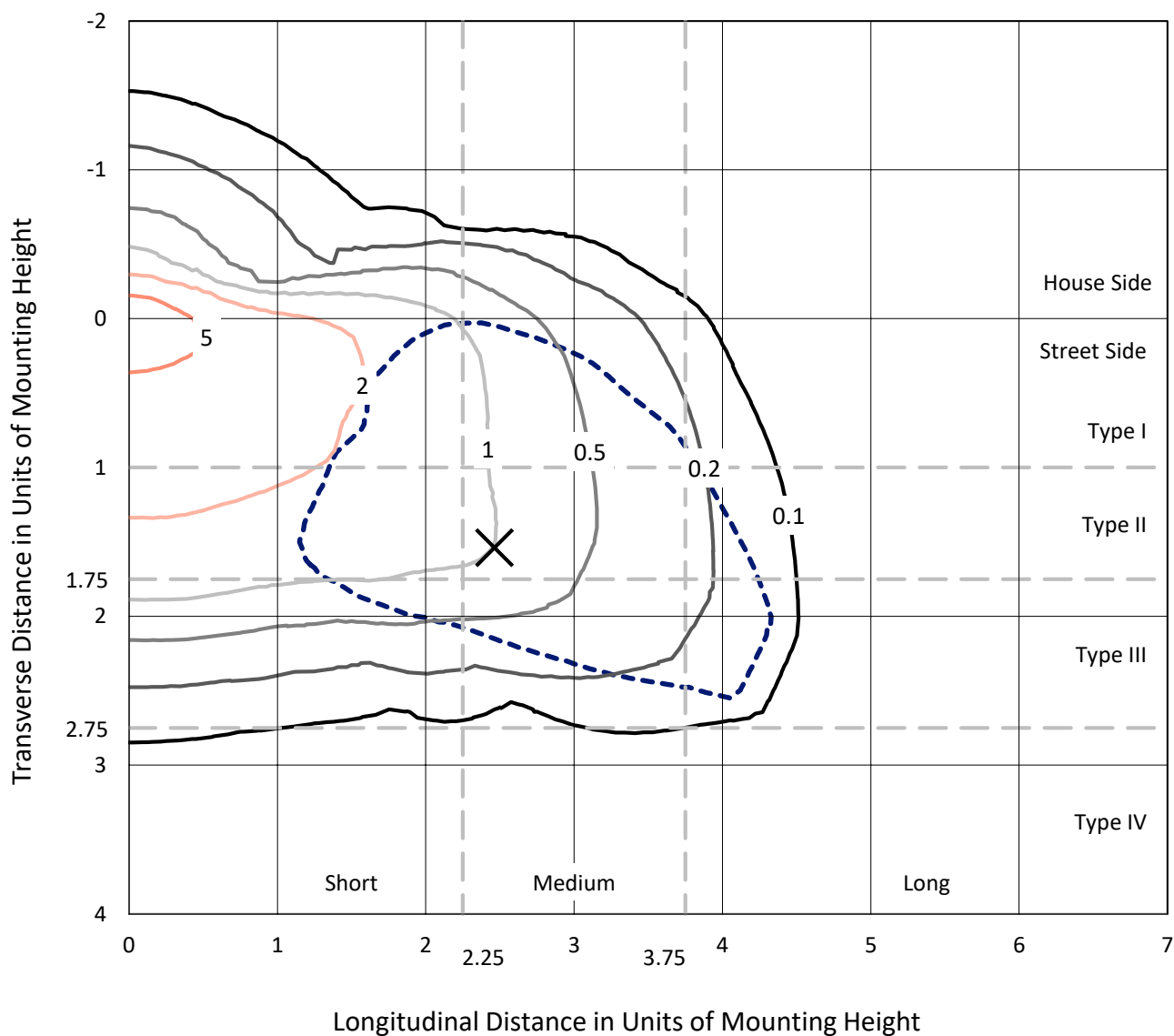
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

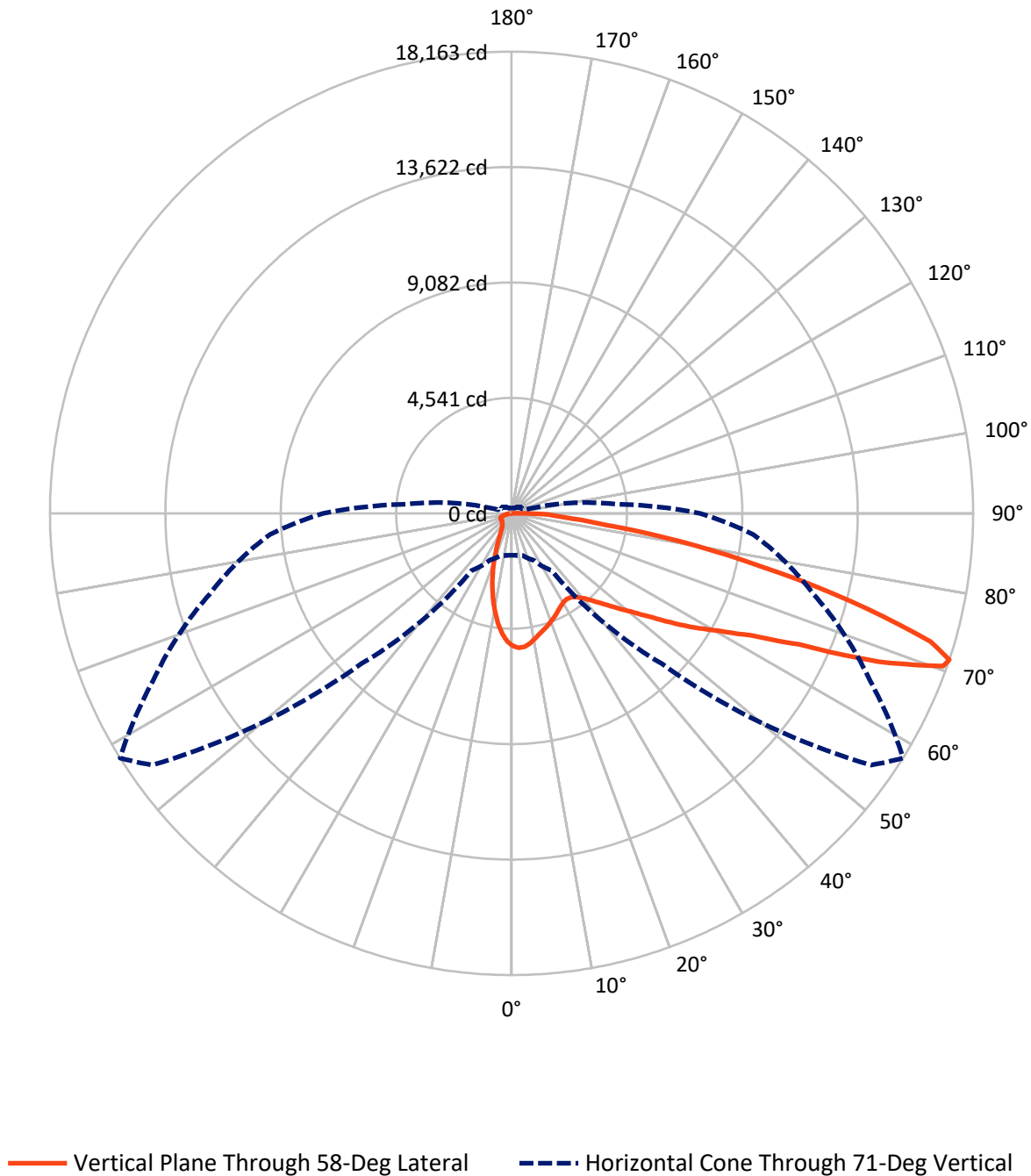
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2810.6	0.0	2810.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	15988.4	0.0	15988.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	18799.0	0.0	18799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.3	2.4
10°-20°	999.2	5.3
20°-30°	1269.8	6.8
30°-40°	1617.5	8.6
40°-50°	2293.7	12.2
50°-60°	3549.6	18.9
60°-70°	4832.4	25.7
70°-80°	3223.8	17.1
80°-90°	563.6	3.0
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°	18799.0	100.0
0°-180°	18799.0	100.0

Coefficient of Utilization



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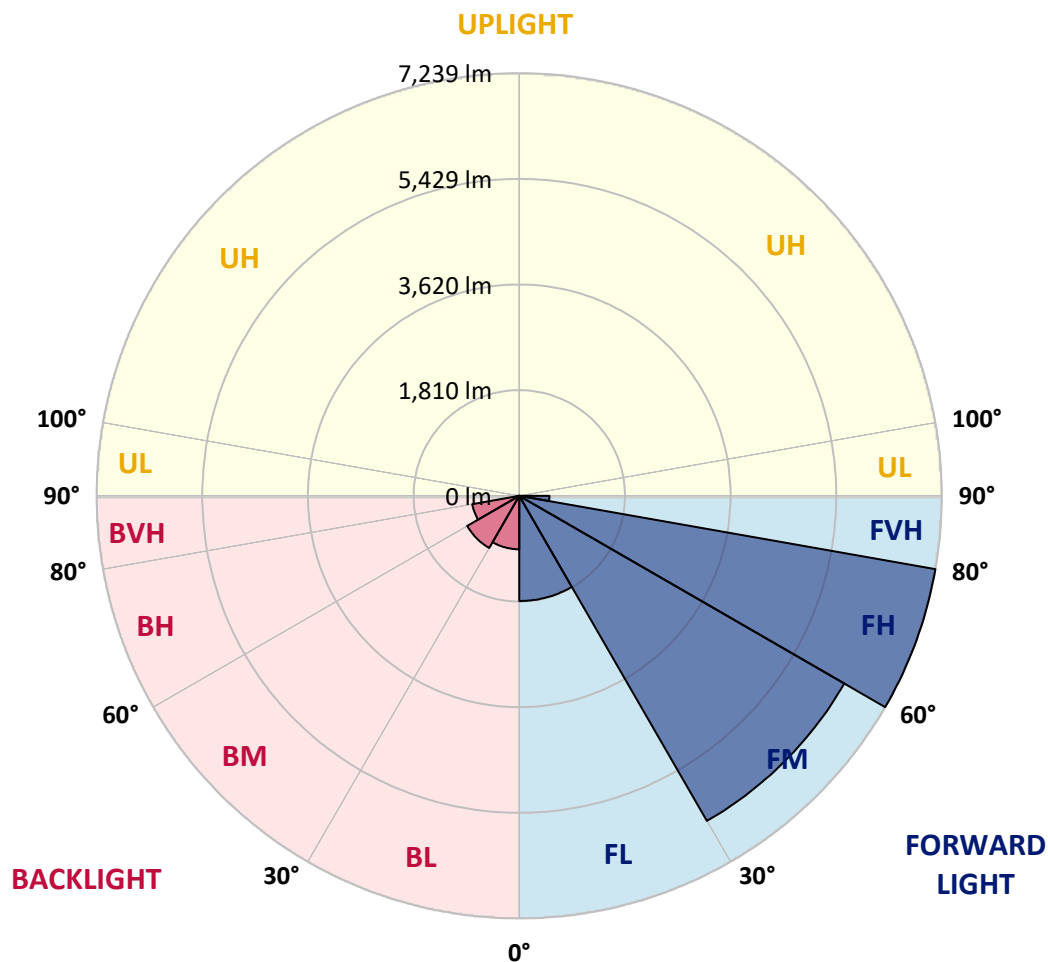
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1802.2	9.6			
FM	(30°-60°)	6430.2	34.2			
FH	(60°-80°)	7239.3	38.5			G3/7500
FVH	(80°-90°)	516.8	2.7			G4/750
BL	(0°-30°)	916.2	4.9	B2/1000		
BM	(30°-60°)	1030.7	5.5	B2/2500		
BH	(60°-80°)	816.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	46.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6
2.5°	5346.8	5339.5	5342.2	5336.9	5324.5	5312.0	5293.7	5297.0	5271.4	5233.5	5186.3
5°	5245.9	5243.3	5262.9	5274.1	5283.2	5276.0	5270.8	5277.3	5240.0	5187.6	5105.8
7.5°	5034.4	5005.6	5030.5	5067.8	5103.2	5130.0	5165.4	5169.9	5146.4	5091.4	4984.0
10°	4733.8	4706.3	4743.0	4801.3	4872.0	4936.2	5007.5	5020.6	5025.2	4975.5	4845.1
12.5°	4422.1	4401.2	4437.8	4519.7	4636.9	4735.8	4849.7	4869.4	4910.0	4876.6	4716.8
15°	4143.2	4135.3	4179.8	4260.4	4395.3	4546.5	4710.9	4746.9	4815.7	4804.5	4616.6
17.5°	3902.2	3900.2	3934.3	4018.7	4168.0	4359.3	4572.7	4633.6	4735.8	4748.9	4534.1
20°	3722.8	3718.8	3742.4	3804.6	3958.5	4175.2	4423.4	4507.2	4654.6	4700.4	4449.0
22.5°	3626.5	3625.8	3626.5	3656.0	3781.7	3983.4	4278.1	4380.2	4575.4	4661.8	4354.7
25°	3610.1	3608.2	3593.7	3590.5	3661.9	3822.9	4134.0	4246.6	4500.0	4634.9	4265.0
27.5°	3652.7	3655.3	3636.3	3605.5	3619.9	3717.5	4008.9	4129.4	4439.8	4629.7	4202.7
30°	3741.1	3739.8	3723.4	3691.3	3663.2	3678.2	3919.9	4040.3	4399.2	4652.6	4160.2
32.5°	3838.7	3845.9	3842.6	3824.9	3783.0	3722.8	3893.0	4010.9	4387.4	4707.6	4141.8
35°	3955.9	3963.7	3987.3	4001.1	3951.9	3855.0	3950.6	4052.8	4421.5	4811.1	4171.3
37.5°	4067.2	4087.5	4153.6	4211.9	4170.0	4062.0	4103.9	4176.6	4526.9	4974.1	4250.6
40°	4195.5	4213.2	4321.3	4445.0	4438.5	4326.5	4350.7	4399.2	4712.9	5207.9	4394.0
42.5°	4321.9	4357.3	4513.8	4689.3	4739.7	4640.8	4679.5	4705.0	4974.8	5517.7	4644.1
45°	4490.2	4528.2	4745.6	4957.1	5075.0	5019.3	5080.9	5090.7	5304.2	5939.4	5007.5
47.5°	4745.0	4788.2	5041.6	5263.6	5443.7	5449.6	5551.1	5547.1	5715.4	6422.0	5465.3
50°	5141.8	5204.0	5411.6	5619.2	5837.9	5959.7	6095.2	6076.2	6208.5	6936.0	5992.4
52.5°	5661.7	5690.5	5844.4	5997.7	6269.4	6542.5	6737.0	6719.9	6767.7	7464.5	6590.9
55°	6200.7	6222.3	6285.8	6369.6	6735.0	7180.3	7591.5	7564.7	7443.5	8013.2	7182.3
57.5°	6685.2	6729.1	6773.0	6807.7	7203.9	7846.9	8465.7	8467.7	8177.0	8605.2	7793.2
60°	6760.5	6799.2	7089.3	7363.0	8006.0	8736.2	9401.5	9381.9	8935.9	9247.6	8474.3
62.5°	5976.0	6063.1	6547.7	7275.9	8778.8	10362.8	10595.3	10571.0	9843.5	10039.3	9267.3
65°	4282.6	4381.5	4966.3	6060.5	8404.2	12155.1	12749.7	12423.6	11081.2	11013.1	10195.8
67.5°	2470.7	2494.3	2747.7	3626.5	6399.1	12248.7	16036.3	15579.9	13003.1	12117.8	10650.3
70°	1827.0	1826.3	1886.6	2231.7	3462.8	9996.8	17599.4	18008.7	15026.6	12481.2	10007.9
71°	1652.2	1654.1	1721.6	2031.3	2742.5	8367.5	17267.4	18163.2	15559.6	12301.8	9543.0
72.5°	1413.1	1419.7	1513.3	1821.8	2307.0	5770.4	15837.3	17236.0	15812.4	11859.1	8815.4
75°	1072.0	1087.0	1216.7	1535.6	2108.6	2926.5	11623.4	13763.4	14046.9	10464.3	6550.3
77.5°	764.9	781.9	928.6	1291.3	2004.5	2205.5	7784.1	10039.3	10337.3	6706.2	2954.6
80°	483.3	503.6	614.2	1027.4	1883.3	2094.2	4891.6	6748.1	5636.8	2145.9	751.8
82.5°	283.5	299.3	381.1	671.2	1538.2	2016.9	2878.0	3740.4	2193.7	648.3	341.8
85°	164.4	171.6	237.7	427.6	1117.2	1903.6	2114.5	2090.9	952.1	316.9	161.7
87.5°	76.6	85.1	140.8	223.3	620.1	1379.7	1671.1	1443.9	592.0	148.6	76.0
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°	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6	5208.6
2.5°	5163.4	5152.3	5105.8	5064.5	5021.3	4965.0	4902.8	4894.9	4856.9	4864.1	4851.0
5°	5061.2	5033.1	4921.1	4819.6	4699.8	4592.4	4475.8	4422.1	4344.8	4339.6	4320.0
7.5°	4915.2	4862.8	4689.3	4496.8	4304.2	4120.9	3939.5	3820.3	3698.5	3646.8	3642.2
10°	4750.8	4661.8	4406.4	4121.5	3843.9	3576.1	3316.8	3124.9	2952.0	2870.2	2866.9
12.5°	4595.0	4463.4	4113.0	3725.4	3345.6	2998.5	2642.9	2390.8	2174.1	2101.4	2070.6
15°	4462.7	4277.4	3827.5	3331.8	2870.8	2388.8	1984.2	1718.9	1518.6	1449.2	1436.1
17.5°	4334.4	4096.0	3534.8	2934.3	2377.1	1847.3	1442.0	1244.8	1138.1	1110.0	1109.3
20°	4206.7	3909.4	3229.0	2527.7	1899.7	1381.7	1108.6	1020.2	984.2	980.9	975.7
22.5°	4062.0	3711.6	2907.5	2119.7	1482.6	1086.4	942.3	907.0	902.4	914.2	914.2
25°	3926.4	3515.2	2581.4	1720.3	1153.2	906.3	841.5	834.3	846.7	867.7	869.6
27.5°	3800.0	3325.9	2263.1	1365.3	924.0	798.2	771.4	779.9	802.2	826.4	827.1
30°	3695.9	3147.2	1954.0	1075.9	780.6	717.7	713.1	730.1	754.4	773.4	777.9
32.5°	3615.4	2994.6	1655.4	865.0	686.9	657.5	661.4	675.8	690.9	701.3	708.5
35°	3578.0	2863.6	1379.7	729.5	627.3	611.0	616.2	624.1	630.6	638.5	644.4
37.5°	3584.6	2762.1	1133.5	645.0	587.4	578.9	578.9	578.9	578.9	582.8	583.5
40°	3645.5	2703.8	933.1	591.3	560.5	551.4	544.2	537.6	532.4	535.0	533.7
42.5°	3801.3	2698.6	786.5	557.3	538.9	523.9	509.5	500.3	493.7	496.4	497.7
45°	4065.9	2764.1	687.6	533.0	518.6	495.7	477.4	467.6	463.0	471.5	472.8
47.5°	4408.4	2906.8	627.3	515.4	499.6	469.5	449.9	440.7	442.0	454.5	457.7
50°	4849.7	3138.6	598.5	504.2	486.5	447.3	427.0	419.1	423.0	440.7	444.6
52.5°	5334.3	3472.6	601.8	501.0	478.0	430.9	409.3	400.1	406.7	423.0	426.3
55°	5893.5	3874.0	656.1	505.5	465.6	420.4	394.9	379.2	384.4	399.5	402.1
57.5°	6515.0	4333.7	765.5	504.2	449.9	410.6	379.8	356.2	360.2	369.3	371.9
60°	7162.0	4889.0	935.1	508.2	442.7	398.8	359.5	330.0	328.7	336.6	337.9
62.5°	7938.6	5531.4	1128.9	510.8	447.3	383.7	332.7	303.8	299.9	301.9	303.2
65°	8738.8	5996.3	1056.3	500.3	461.7	371.3	309.1	278.3	271.1	269.8	270.4
67.5°	8763.7	5498.0	740.6	479.3	467.6	364.7	291.4	256.7	244.9	240.3	239.7
70°	7859.4	4466.6	576.9	457.1	444.0	354.3	275.0	239.0	221.3	214.1	213.5
71°	7418.0	4111.7	546.8	445.9	426.3	343.8	267.8	231.2	212.8	205.0	203.7
72.5°	6725.8	3686.1	510.1	428.3	392.2	316.9	254.1	220.0	201.0	191.9	189.9
75°	4826.8	2410.5	438.1	381.8	324.8	252.8	222.6	197.8	181.4	170.3	168.9
77.5°	1859.7	959.3	331.3	317.6	248.8	197.8	183.4	170.9	159.1	148.0	147.3
80°	574.9	428.9	241.6	239.0	180.1	147.3	142.8	139.5	134.9	123.1	120.5
82.5°	307.1	246.2	166.3	154.5	117.9	98.2	103.5	104.8	105.4	93.0	91.7
85°	146.7	130.3	93.6	87.7	68.8	55.0	63.5	68.8	69.4	57.0	53.0
87.5°	70.1	68.1	43.9	33.4	25.5	18.3	22.3	27.5	30.1	21.6	19.0
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)