

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: P323269

Luminaire Tested: **GAN-SA5A-760-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19292 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

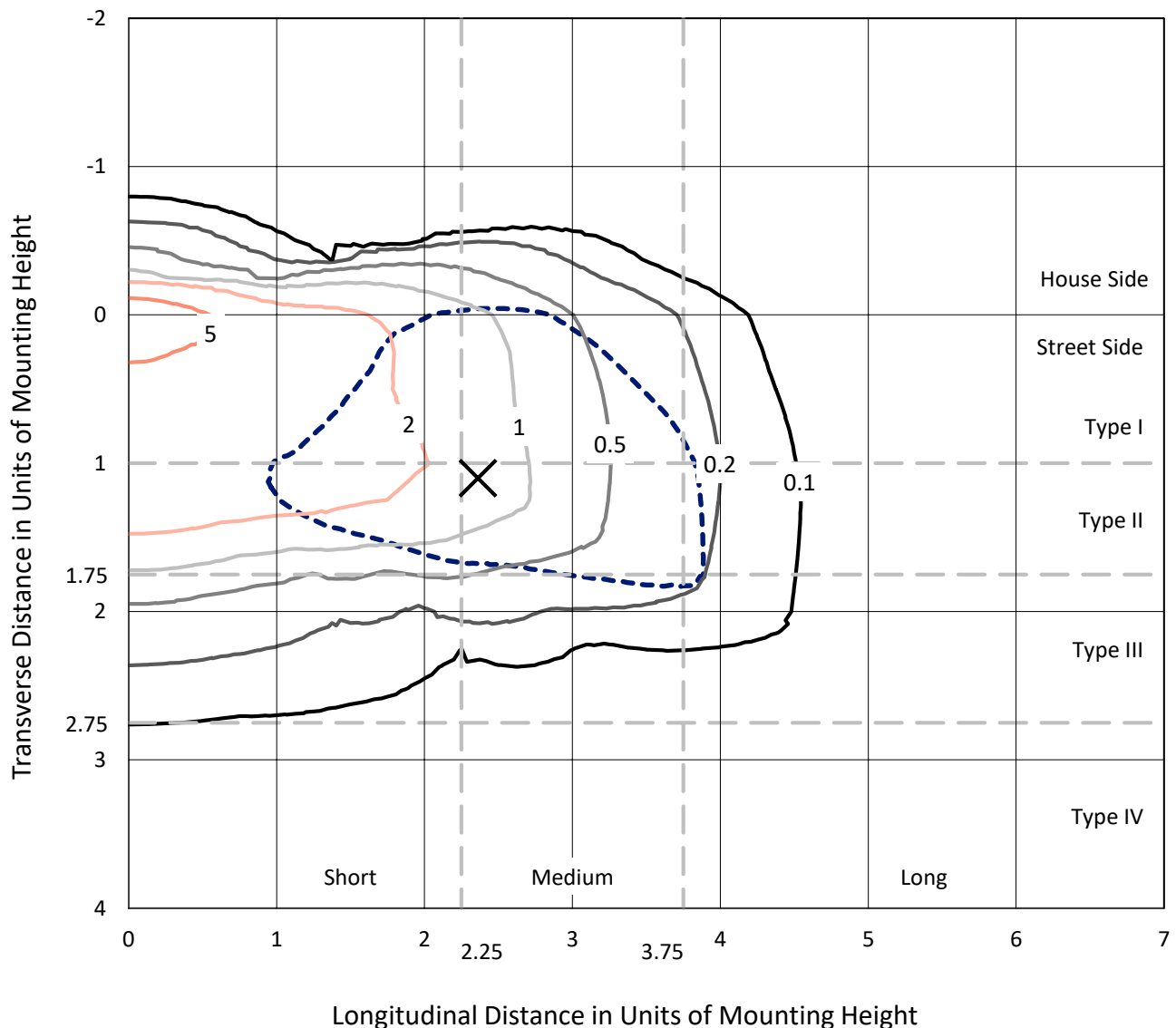
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323269
 CATALOG NUMBER: GAN-SA5A-760-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

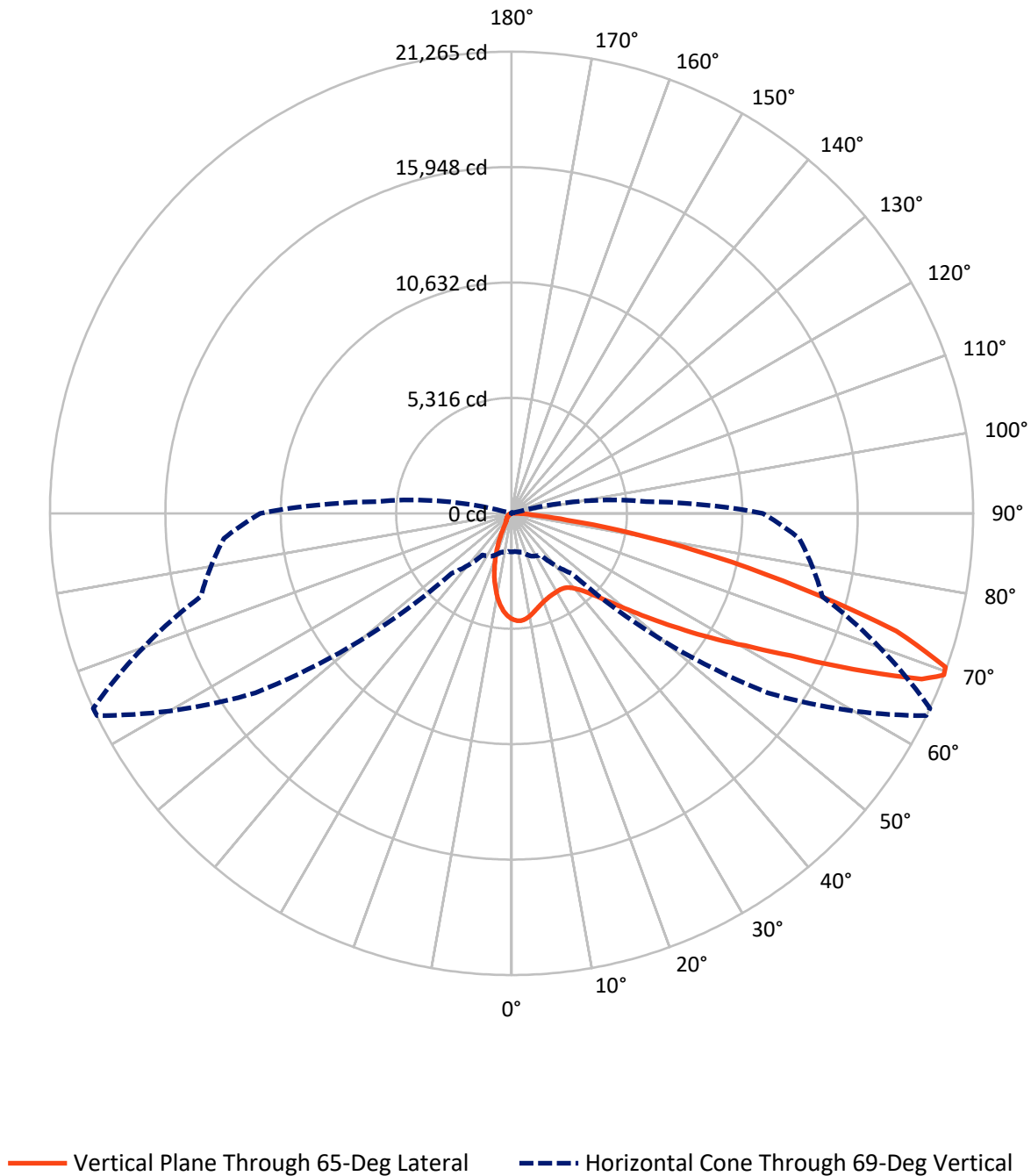
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P323269
CATALOG NUMBER: GAN-SA5A-760-U-SL2-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2274.1	0.0	2274.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	17017.9	0.0	17017.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	19292.0	0.0	19292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	2.1
10°-20°	892.4	4.6
20°-30°	1236.0	6.4
30°-40°	1723.4	8.9
40°-50°	2678.7	13.9
50°-60°	4300.3	22.3
60°-70°	4864.4	25.2
70°-80°	2856.9	14.8
80°-90°	332.3	1.7
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°	19292.0	100.0
0°-180°	19292.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323269

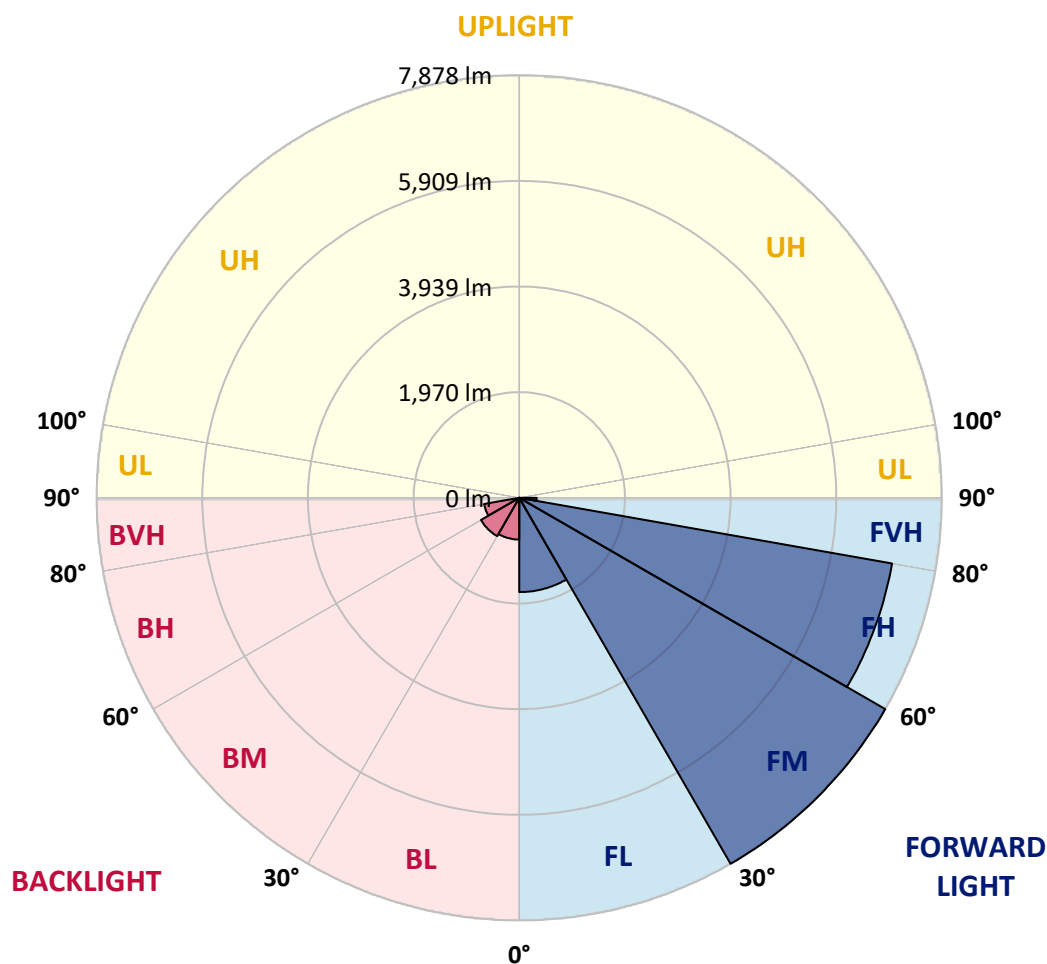
CATALOG NUMBER: GAN-SA5A-760-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.0	9.1			
FM	(30°-60°)	7878.3	40.8			
FH	(60°-80°)	7056.8	36.6			G3/7500
FVH	(80°-90°)	324.9	1.7			G3/500
BL	(0°-30°)	778.1	4.0	B2/1000		
BM	(30°-60°)	824.1	4.3	B1/1000		
BH	(60°-80°)	664.4	3.4	B2/1000		G2/1000
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P323269

CATALOG NUMBER: GAN-SA5A-760-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1
2.5°	4918.4	4906.1	4915.9	4937.2	4947.8	4947.8	4955.9	4946.1	4949.4	4925.7	4891.4
5°	4610.6	4591.9	4618.8	4678.4	4751.9	4814.7	4907.8	4956.8	4961.7	4962.5	4922.5
7.5°	4279.2	4262.1	4302.1	4372.3	4467.0	4583.7	4746.1	4888.2	4896.3	4973.1	4943.7
10°	4009.8	3997.6	4044.1	4119.2	4230.2	4360.8	4560.0	4757.6	4781.2	4951.0	4940.4
12.5°	3795.9	3786.1	3830.2	3916.8	4030.2	4174.7	4382.9	4612.3	4644.1	4901.2	4924.1
15°	3640.0	3638.4	3675.1	3758.4	3884.1	4018.8	4231.9	4477.6	4514.3	4847.4	4921.7
17.5°	3558.4	3560.8	3587.8	3658.8	3766.5	3900.4	4104.5	4364.1	4404.1	4799.2	4933.9
20°	3550.2	3552.7	3567.4	3607.4	3694.7	3813.1	4000.8	4268.6	4310.2	4763.3	4953.5
22.5°	3622.1	3620.4	3624.5	3620.4	3669.4	3759.2	3932.3	4195.1	4243.3	4739.6	4969.0
25°	3760.0	3757.6	3755.9	3725.7	3693.1	3741.2	3903.7	4153.5	4199.2	4722.5	4978.0
27.5°	3951.9	3950.2	3947.8	3898.0	3800.0	3769.8	3907.0	4138.0	4176.3	4708.6	4976.3
30°	4204.1	4215.5	4212.3	4142.9	3990.2	3857.2	3941.2	4129.8	4163.3	4681.7	4959.2
32.5°	4500.4	4523.3	4541.2	4467.0	4275.9	4030.2	4020.4	4138.8	4163.3	4661.2	4928.2
35°	4808.2	4837.6	4903.7	4877.6	4626.1	4290.6	4156.8	4192.7	4213.1	4672.7	4913.5
37.5°	5111.0	5146.1	5289.8	5365.7	5084.9	4635.1	4369.0	4325.7	4336.3	4742.1	4929.8
40°	5462.9	5515.9	5733.9	5856.4	5632.7	5096.3	4686.5	4554.3	4558.4	4894.7	5005.7
42.5°	5924.9	5979.6	6215.5	6407.4	6249.8	5679.2	5117.6	4903.7	4899.6	5180.4	5184.5
45°	6488.2	6545.3	6789.4	7002.5	6931.5	6369.8	5669.4	5413.9	5409.0	5631.0	5523.3
47.5°	7126.6	7182.9	7400.8	7620.4	7697.2	7176.4	6372.3	6110.2	6098.8	6257.2	6046.6
50°	7674.3	7711.1	7911.9	8207.4	8553.5	8167.4	7246.6	6994.3	6982.1	7089.0	6814.7
52.5°	7873.5	7894.7	8098.8	8512.7	9376.4	9509.4	8395.1	8070.2	8061.3	8107.8	7837.6
55°	7470.2	7508.6	7759.2	8373.1	9822.1	11026.2	9844.9	9402.5	9334.7	9234.3	8907.0
57.5°	6371.5	6432.7	6702.1	7518.4	9613.9	12229.4	11975.6	10909.4	10809.8	10196.0	9776.4
60°	4773.9	4849.0	5072.7	5953.5	8502.9	12658.0	14303.7	12588.6	12364.1	10961.7	10575.6
62.5°	3275.9	3313.5	3465.3	4039.2	6262.1	11956.0	16251.5	14837.6	14427.8	11794.3	11440.0
65°	2502.1	2515.1	2577.2	2774.7	3729.0	9711.9	17026.2	17805.0	17309.5	12790.3	12337.2
67.5°	2016.3	2005.7	2091.4	2373.9	2497.2	5924.9	16122.5	20612.3	20380.5	14121.7	13240.1
69°	1778.0	1763.3	1850.6	2178.8	2345.3	3916.8	14413.1	21249.9	21264.6	14824.6	13302.1
70°	1600.0	1609.8	1696.3	2062.9	2293.9	3074.3	12780.5	21087.4	21203.4	15087.4	12929.8
72.5°	1068.6	1094.7	1268.6	1712.7	2205.7	2326.5	7716.8	18095.6	18541.3	14495.6	11093.1
75°	602.5	622.0	828.6	1291.4	2078.4	2215.5	4075.9	13331.5	13762.5	12121.7	8554.3
77.5°	295.5	306.1	468.6	833.5	1738.0	2111.0	2311.8	9055.5	9547.8	7911.9	4838.4
80°	124.9	130.6	234.3	514.3	1242.5	2014.7	1716.7	5573.1	5634.3	3099.6	1289.0
82.5°	48.2	49.8	98.8	320.8	789.4	1570.6	1435.9	2642.5	2578.8	583.7	293.9
85°	5.7	6.5	35.9	192.7	439.2	808.2	1166.5	1138.8	1053.9	115.9	151.0
87.5°	0.0	0.0	2.4	58.8	130.6	378.8	606.5	472.7	426.1	37.6	78.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323269

CATALOG NUMBER: GAN-SA5A-760-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1	4875.1
2.5°	4862.9	4854.7	4810.6	4747.0	4686.5	4611.4	4539.6	4496.3	4462.1	4439.2	4466.1
5°	4875.9	4840.0	4706.1	4534.7	4366.5	4177.2	4000.8	3851.4	3792.7	3727.4	3756.8
7.5°	4871.9	4804.1	4563.3	4258.0	3949.4	3630.2	3328.2	3095.5	2974.7	2856.3	2886.5
10°	4851.4	4737.2	4372.3	3920.0	3458.0	2999.2	2570.6	2244.9	2062.9	1898.0	1921.6
12.5°	4806.6	4647.4	4147.0	3533.1	2915.1	2310.2	1808.2	1391.0	1167.4	1068.6	1080.8
15°	4779.6	4560.0	3908.6	3141.2	2335.5	1609.0	1105.3	822.0	720.0	687.3	691.4
17.5°	4766.6	4475.9	3662.1	2693.1	1742.9	1024.5	714.3	630.2	608.2	602.5	604.1
20°	4753.5	4391.0	3408.2	2249.8	1200.8	689.0	586.9	562.5	554.3	546.9	548.6
22.5°	4731.4	4309.4	3135.5	1800.8	809.8	559.2	529.0	505.3	488.2	479.2	480.8
25°	4704.5	4223.7	2857.2	1341.2	591.0	498.8	470.2	436.7	416.3	400.0	400.8
27.5°	4661.2	4118.4	2569.8	976.3	496.3	446.5	408.2	371.4	337.1	318.4	318.4
30°	4600.8	3999.2	2250.6	698.8	444.9	395.1	348.6	302.9	266.1	249.0	247.3
32.5°	4533.9	3875.1	1928.2	529.8	404.1	346.9	293.9	245.7	213.1	199.2	198.4
35°	4476.8	3741.2	1606.5	444.1	363.3	300.4	242.4	201.6	175.5	164.1	163.3
37.5°	4440.0	3607.4	1293.1	396.7	326.5	257.1	203.3	166.5	147.8	138.8	138.0
40°	4434.3	3507.8	1006.5	360.8	292.2	218.8	169.8	141.2	124.1	114.3	113.5
42.5°	4508.6	3450.6	772.2	330.6	257.1	185.3	144.5	120.8	102.9	93.1	92.2
45°	4703.7	3468.6	594.3	303.7	222.0	156.7	122.4	100.4	84.1	76.7	75.1
47.5°	5059.6	3592.7	472.7	276.7	188.6	133.1	104.5	83.3	69.4	62.0	61.2
50°	5693.1	3884.1	395.1	247.3	157.6	113.5	86.5	67.8	56.3	49.8	49.0
52.5°	6533.9	4403.3	352.7	218.8	130.6	96.3	71.0	53.9	44.1	39.2	38.4
55°	7461.3	5031.9	324.9	187.8	106.9	80.0	56.3	42.4	34.3	30.2	28.6
57.5°	8366.6	5576.3	298.8	157.6	89.0	65.3	44.9	33.5	26.9	22.9	22.0
60°	9198.4	6076.8	268.6	126.5	72.7	51.4	35.1	26.1	21.2	17.1	17.1
62.5°	10089.0	6463.7	226.9	98.8	59.6	39.2	28.6	23.7	17.1	14.7	13.9
65°	11032.7	6751.0	178.0	76.7	46.5	29.4	23.7	24.5	13.9	10.6	9.8
67.5°	11729.8	6693.9	131.4	60.4	35.9	22.9	22.9	26.1	12.2	8.2	7.3
69°	11576.4	6229.4	110.2	52.2	31.0	19.6	21.2	26.1	11.4	7.3	6.5
70°	11131.5	5715.1	97.1	46.5	27.8	18.0	20.4	25.3	10.6	7.3	6.5
72.5°	9270.2	4304.5	75.9	35.1	22.0	14.7	17.1	22.0	10.6	7.3	5.7
75°	6973.1	2755.1	58.0	25.3	16.3	11.4	13.1	16.3	10.6	6.5	5.7
77.5°	3794.3	993.5	41.6	17.1	11.4	9.0	9.0	12.2	9.8	4.9	3.3
80°	975.5	249.8	26.1	11.4	9.0	6.5	5.7	8.2	5.7	0.8	0.0
82.5°	240.8	56.3	13.9	8.2	6.5	2.4	2.4	4.1	2.4	0.0	0.0
85°	132.2	27.8	9.0	5.7	3.3	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	67.8	8.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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)