

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: P323588

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16060 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

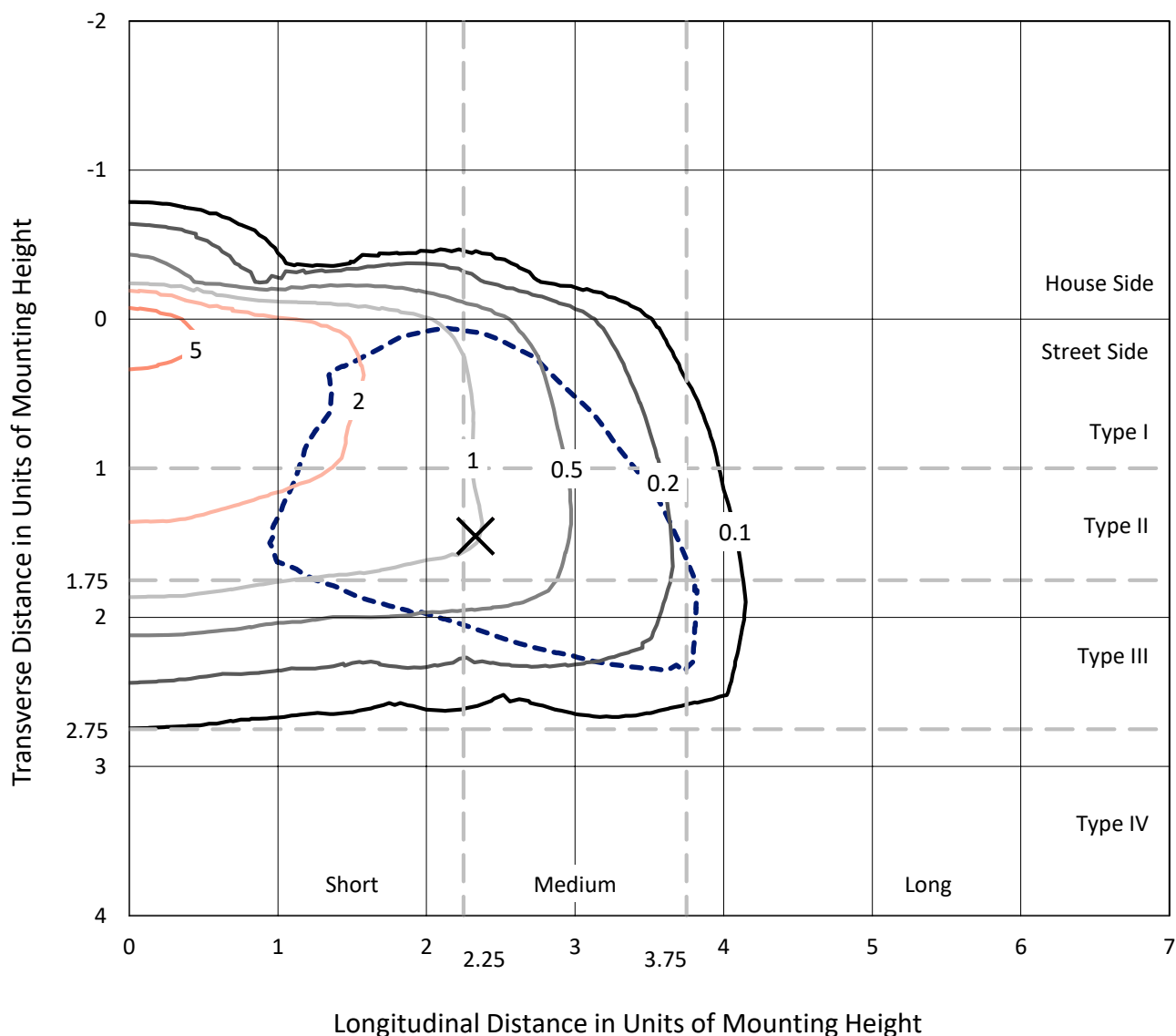
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323588
 CATALOG NUMBER: GAN-SA4A-760-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

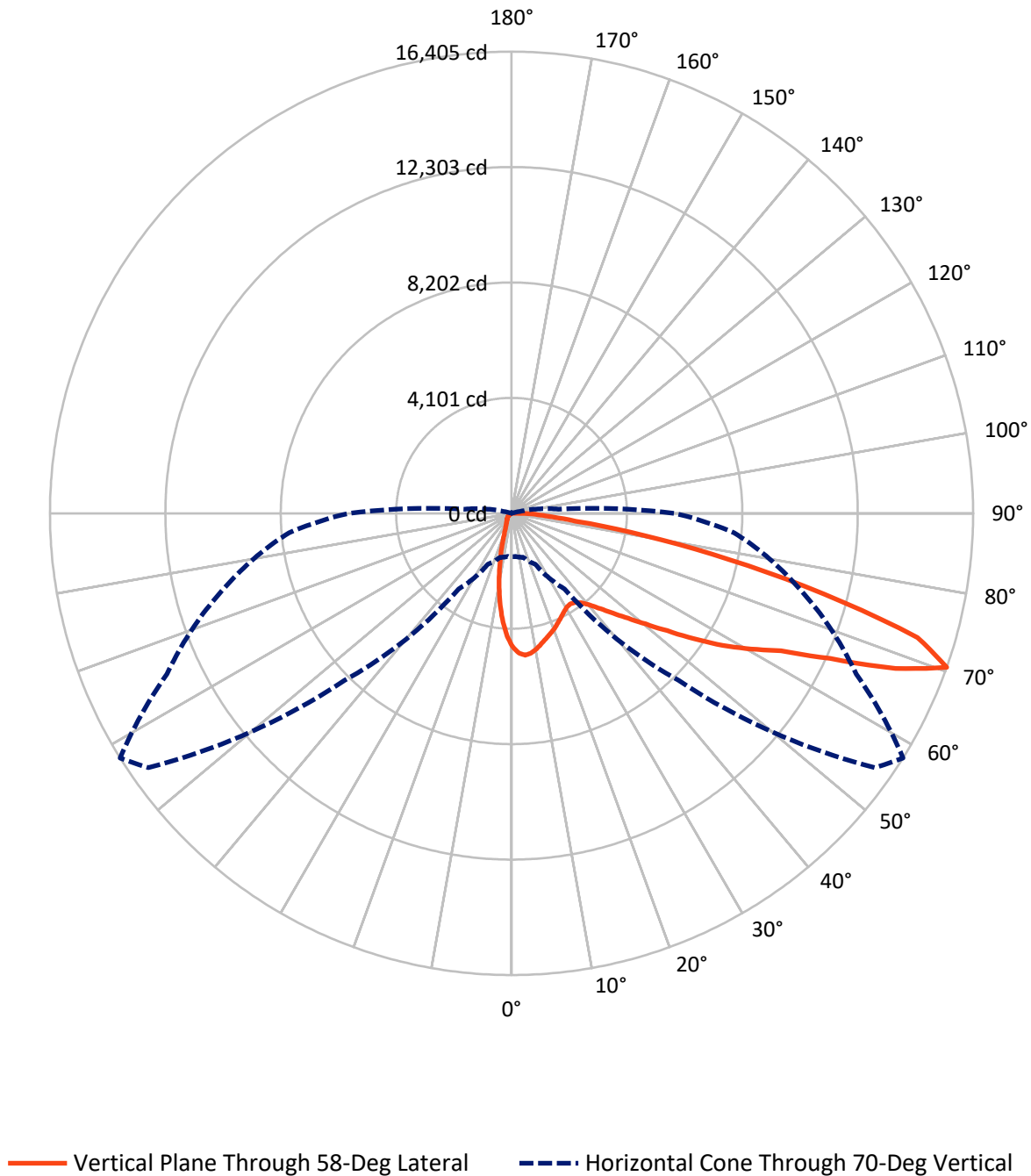
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P323588
CATALOG NUMBER: GAN-SA4A-760-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323588

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1374.4	0.0	1374.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	14685.6	0.0	14685.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	16060.0	0.0	16060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	2.4
10°-20°	814.2	5.1
20°-30°	1070.4	6.7
30°-40°	1417.6	8.8
40°-50°	2118.9	13.2
50°-60°	3394.4	21.1
60°-70°	4278.6	26.6
70°-80°	2307.9	14.4
80°-90°	270.1	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°	16060.0	100.0
0°-180°	16060.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323588

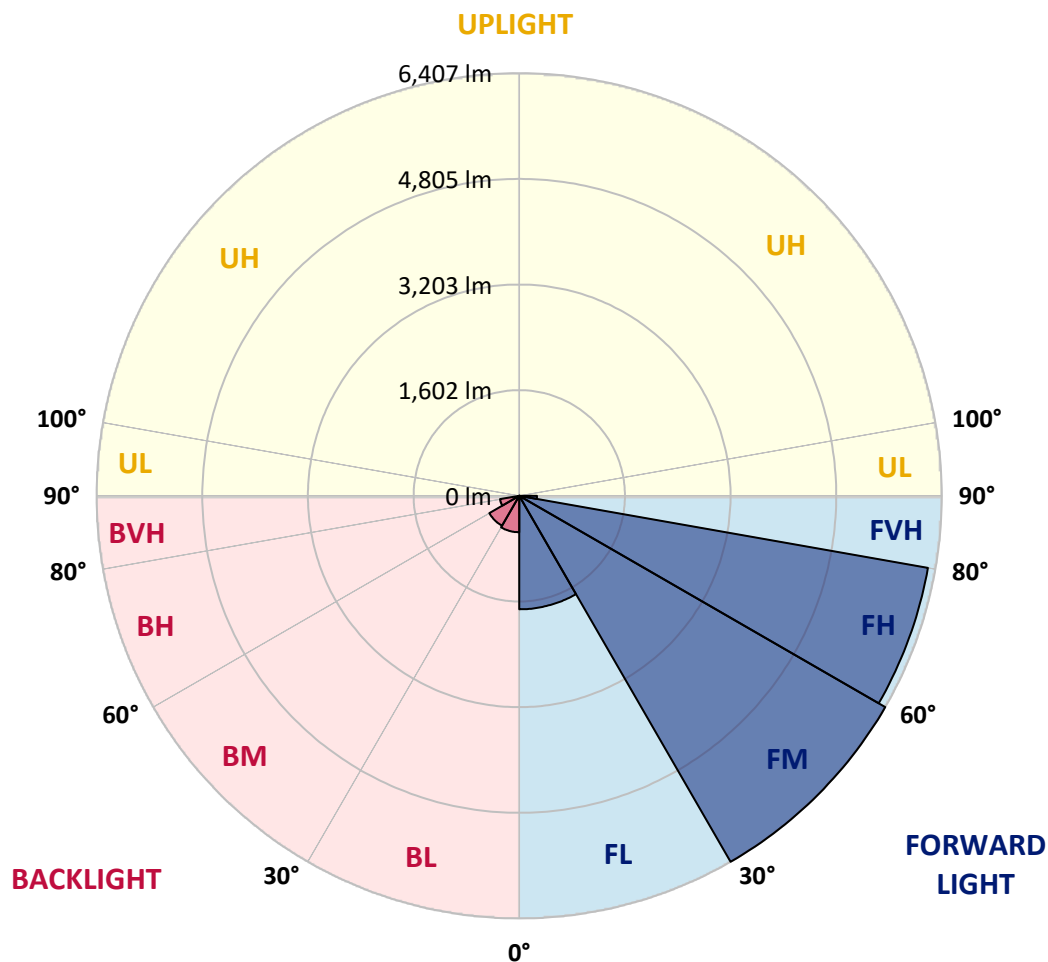
CATALOG NUMBER: GAN-SA4A-760-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.4	10.7			
FM	(30°-60°)	6406.6	39.9			
FH	(60°-80°)	6290.9	39.2			G3/7500
FVH	(80°-90°)	267.8	1.7			G3/500
BL	(0°-30°)	552.2	3.4	B2/1000		
BM	(30°-60°)	524.3	3.3	B1/1000		
BH	(60°-80°)	295.6	1.8	B1/500		G1/500
BVH	(80°-90°)	2.3	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: P323588

CATALOG NUMBER: GAN-SA4A-760-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0
2.5°	5137.4	5124.7	5120.0	5112.0	5081.3	5051.2	4991.8	4975.1	4937.7	4848.9	4754.7
5°	5141.4	5140.7	5154.7	5151.4	5140.7	5126.7	5084.0	5061.9	4998.5	4871.6	4699.3
7.5°	4893.6	4906.3	4937.7	4963.1	4992.5	5030.5	5035.9	5014.5	4962.4	4825.5	4597.1
10°	4561.1	4581.1	4625.2	4675.3	4752.1	4828.2	4896.3	4893.6	4875.6	4740.7	4474.3
12.5°	4227.8	4251.2	4302.0	4376.1	4484.9	4609.2	4730.7	4747.4	4777.4	4664.6	4360.7
15°	3936.0	3956.0	4006.1	4097.0	4231.8	4398.8	4577.1	4607.8	4685.3	4605.1	4265.9
17.5°	3688.3	3700.9	3737.7	3838.5	3994.8	4197.1	4428.8	4488.9	4604.5	4558.4	4183.8
20°	3515.3	3517.3	3541.3	3612.1	3768.4	3994.8	4275.3	4361.4	4519.0	4518.3	4099.0
22.5°	3429.8	3423.1	3427.8	3468.6	3583.4	3801.8	4121.7	4223.8	4442.2	4484.3	4012.8
25°	3413.8	3408.4	3395.1	3400.4	3469.9	3632.8	3966.7	4084.9	4374.8	4463.6	3938.0
27.5°	3463.9	3469.2	3446.5	3422.5	3427.8	3523.3	3829.2	3966.1	4320.0	4463.6	3885.3
30°	3564.7	3567.4	3550.7	3519.3	3477.2	3492.6	3733.7	3870.6	4292.6	4494.3	3851.9
32.5°	3676.2	3690.9	3688.9	3663.5	3603.4	3541.3	3711.0	3835.8	4290.6	4562.4	3848.5
35°	3814.5	3831.2	3859.2	3853.9	3791.1	3688.9	3788.4	3886.6	4330.0	4674.6	3884.6
37.5°	3961.4	3986.8	4046.9	4075.6	4034.8	3919.3	3962.1	4032.2	4435.5	4856.2	3976.1
40°	4103.6	4132.3	4241.9	4354.7	4324.0	4205.1	4225.2	4281.3	4623.2	5117.3	4149.7
42.5°	4243.2	4285.9	4446.9	4632.5	4669.3	4574.4	4585.1	4629.9	4901.6	5476.6	4433.5
45°	4410.1	4458.2	4696.6	4925.7	5023.9	4982.5	5027.9	5057.2	5265.6	5951.4	4816.2
47.5°	4655.2	4710.7	5003.2	5264.3	5436.6	5463.3	5554.8	5574.1	5725.7	6504.4	5315.0
50°	5133.4	5148.7	5413.2	5650.3	5898.7	6058.9	6163.1	6177.8	6282.7	7108.7	5938.1
52.5°	5735.1	5745.1	5894.7	6053.6	6336.1	6663.3	6907.1	6927.8	6949.8	7697.7	6553.1
55°	6332.7	6331.4	6430.2	6523.7	6846.9	7322.4	7851.3	7864.0	7705.7	8256.7	7023.2
57.5°	6706.0	6742.1	6892.4	7012.6	7464.0	8073.7	8807.6	8854.4	8499.8	8670.7	7488.0
60°	6587.2	6604.5	6937.8	7382.5	8232.6	9141.5	9775.2	9787.3	9096.8	9084.1	8075.7
62.5°	5612.2	5621.5	6145.1	7062.0	8622.0	10526.5	10942.6	10746.9	9783.3	9657.7	8778.9
65°	3846.5	3907.3	4344.7	5478.0	7906.7	11395.3	12749.6	12425.7	10829.7	10484.5	9414.6
67.5°	2265.2	2252.5	2468.9	3303.6	5807.2	10818.4	15035.5	14713.6	12256.8	11038.1	9228.3
70°	1547.3	1538.6	1621.4	2000.1	3278.2	8392.2	15754.7	16404.5	13516.9	10665.4	7942.1
72.5°	1104.5	1109.2	1231.4	1554.0	2058.2	4889.6	13548.3	15086.3	13122.3	9297.8	6036.9
75°	749.9	762.6	937.6	1274.8	1804.4	2487.6	9614.3	11468.1	10685.5	6757.5	3469.9
77.5°	403.4	417.4	623.7	1027.1	1631.4	1728.3	6184.5	7892.7	6712.1	3037.8	1005.7
80°	168.3	176.3	291.8	746.6	1409.7	1517.9	3638.8	4786.1	2860.2	599.0	224.4
82.5°	72.8	76.8	121.5	445.4	1053.8	1281.5	1926.6	2302.6	866.8	131.6	112.9
85°	14.0	14.7	50.1	235.7	672.5	723.2	1248.8	1224.1	389.3	56.8	82.1
87.5°	0.0	0.0	12.0	74.1	197.7	394.0	762.0	752.6	132.2	27.4	30.7
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: P323588

CATALOG NUMBER: GAN-SA4A-760-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0	4744.0
2.5°	4706.7	4660.6	4563.7	4444.2	4352.7	4251.9	4171.7	4070.2	4026.2	4028.2	4004.1
5°	4601.1	4506.3	4291.9	4021.5	3813.1	3598.1	3413.1	3228.8	3120.0	3084.6	3051.2
7.5°	4450.2	4300.0	3958.0	3541.3	3188.7	2844.2	2544.3	2280.5	2113.6	2032.1	2002.1
10°	4279.9	4068.9	3574.1	3025.1	2521.6	2055.5	1666.8	1328.9	1194.0	1102.5	1079.2
12.5°	4130.3	3844.5	3198.8	2495.6	1897.9	1335.6	965.0	754.6	663.1	627.1	621.1
15°	3989.4	3634.8	2837.5	2016.1	1314.2	822.1	613.7	542.3	520.9	514.9	514.9
17.5°	3856.5	3435.2	2484.2	1544.0	869.5	576.3	508.2	492.2	485.5	484.8	485.5
20°	3717.6	3235.5	2137.0	1131.3	607.0	488.2	469.5	460.8	458.8	458.8	458.8
22.5°	3584.7	3035.8	1799.1	808.0	486.8	445.4	436.1	430.1	428.1	427.4	426.1
25°	3457.2	2846.2	1469.2	571.0	427.4	408.0	400.0	392.0	386.0	382.6	380.6
27.5°	3352.4	2677.2	1162.0	458.1	386.0	369.3	359.3	347.3	332.6	325.9	323.2
30°	3268.9	2522.9	895.5	386.7	347.3	330.6	315.2	294.5	273.1	261.8	261.1
32.5°	3203.4	2371.4	679.8	341.9	312.5	291.8	269.8	243.7	219.0	206.4	205.7
35°	3171.4	2237.8	519.5	309.2	281.8	255.8	228.4	199.7	175.6	163.6	162.3
37.5°	3192.7	2124.9	405.4	281.8	255.8	225.7	193.7	163.6	142.2	131.6	130.9
40°	3270.9	2052.8	329.2	258.4	233.7	197.0	162.3	134.2	116.2	107.5	106.8
42.5°	3437.2	2026.1	281.1	239.1	212.4	170.3	134.9	110.9	94.2	88.1	86.8
45°	3715.0	2065.5	248.4	220.4	190.3	144.9	111.5	90.8	76.1	71.5	70.8
47.5°	4084.9	2169.0	225.0	202.3	170.3	122.2	92.8	73.5	62.1	57.4	56.8
50°	4561.7	2333.3	205.7	184.3	151.6	103.5	76.8	58.1	48.1	44.7	44.7
52.5°	5080.6	2529.0	188.3	167.6	132.9	86.1	62.1	44.7	38.1	34.1	34.1
55°	5509.3	2699.9	169.6	154.9	110.2	71.5	47.4	34.1	28.0	26.0	26.0
57.5°	5937.4	2882.2	148.3	132.9	88.1	58.1	36.1	25.4	20.7	19.4	19.4
60°	6492.3	3105.3	127.5	108.2	69.5	44.1	26.7	18.0	15.4	14.7	14.7
62.5°	7102.7	3236.2	108.9	86.8	54.1	32.7	19.4	12.0	11.4	11.4	10.7
65°	7476.0	3051.2	91.5	69.5	42.1	24.7	12.7	8.7	10.0	9.3	8.0
67.5°	6999.9	2388.7	74.8	54.1	32.7	18.7	8.0	6.0	10.7	8.7	6.7
70°	5795.8	1672.2	58.1	38.1	26.0	16.0	5.3	4.0	11.4	8.7	5.3
72.5°	4337.4	1119.2	46.1	25.4	19.4	14.0	4.7	2.0	10.0	7.3	4.7
75°	2370.0	450.8	36.7	16.0	12.0	10.0	3.3	1.3	6.7	5.3	3.3
77.5°	623.7	118.9	26.7	10.7	6.7	4.0	2.0	0.7	3.3	2.7	1.3
80°	158.9	46.1	17.4	7.3	4.7	2.0	0.0	0.0	0.7	0.0	0.0
82.5°	84.8	19.4	10.7	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.1	12.7	6.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	4.0	2.0	0.0	0.0	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)