

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: P323960

Luminaire Tested: **GAN-SA6B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20393 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

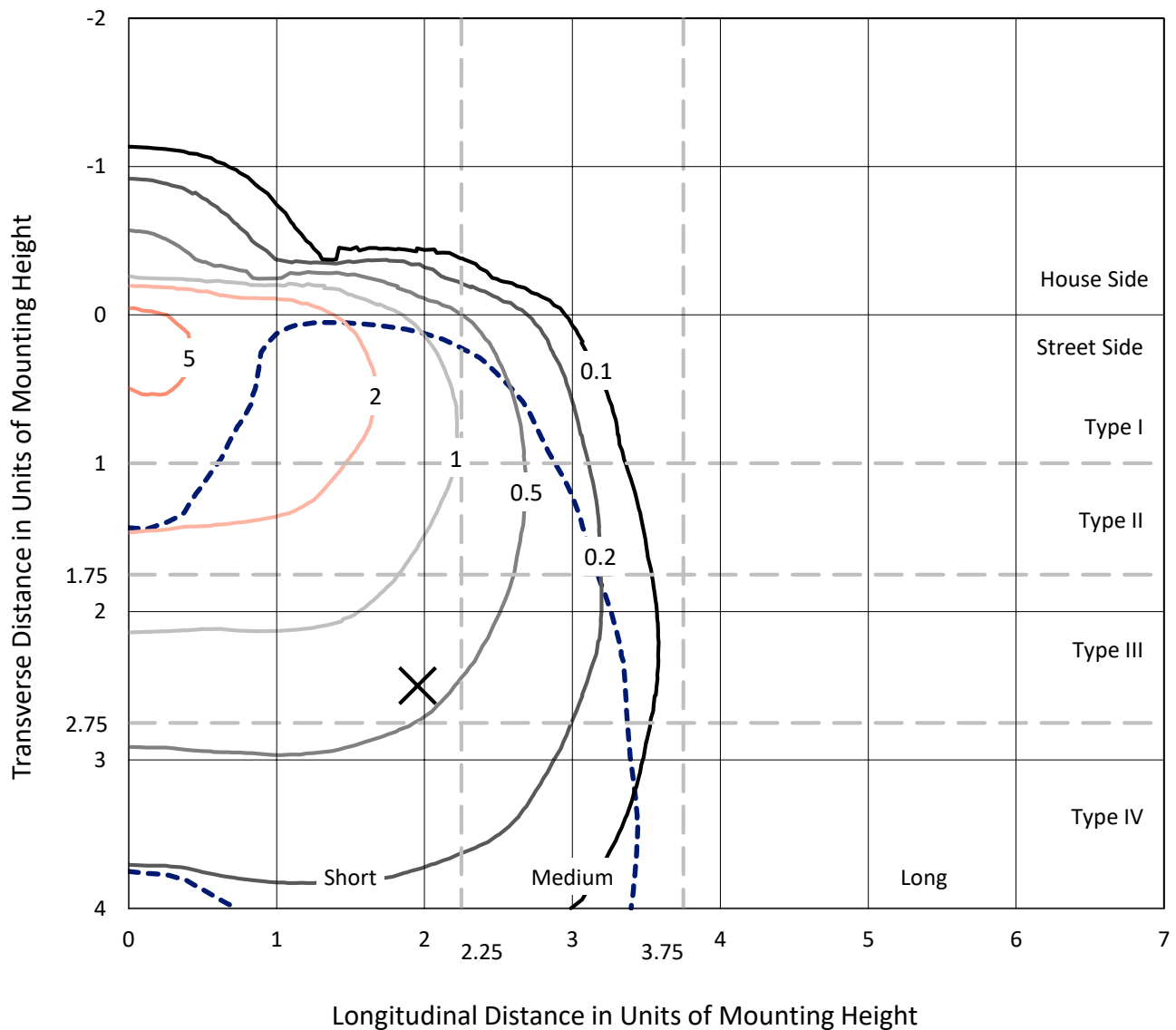
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323960
 CATALOG NUMBER: GAN-SA6B-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

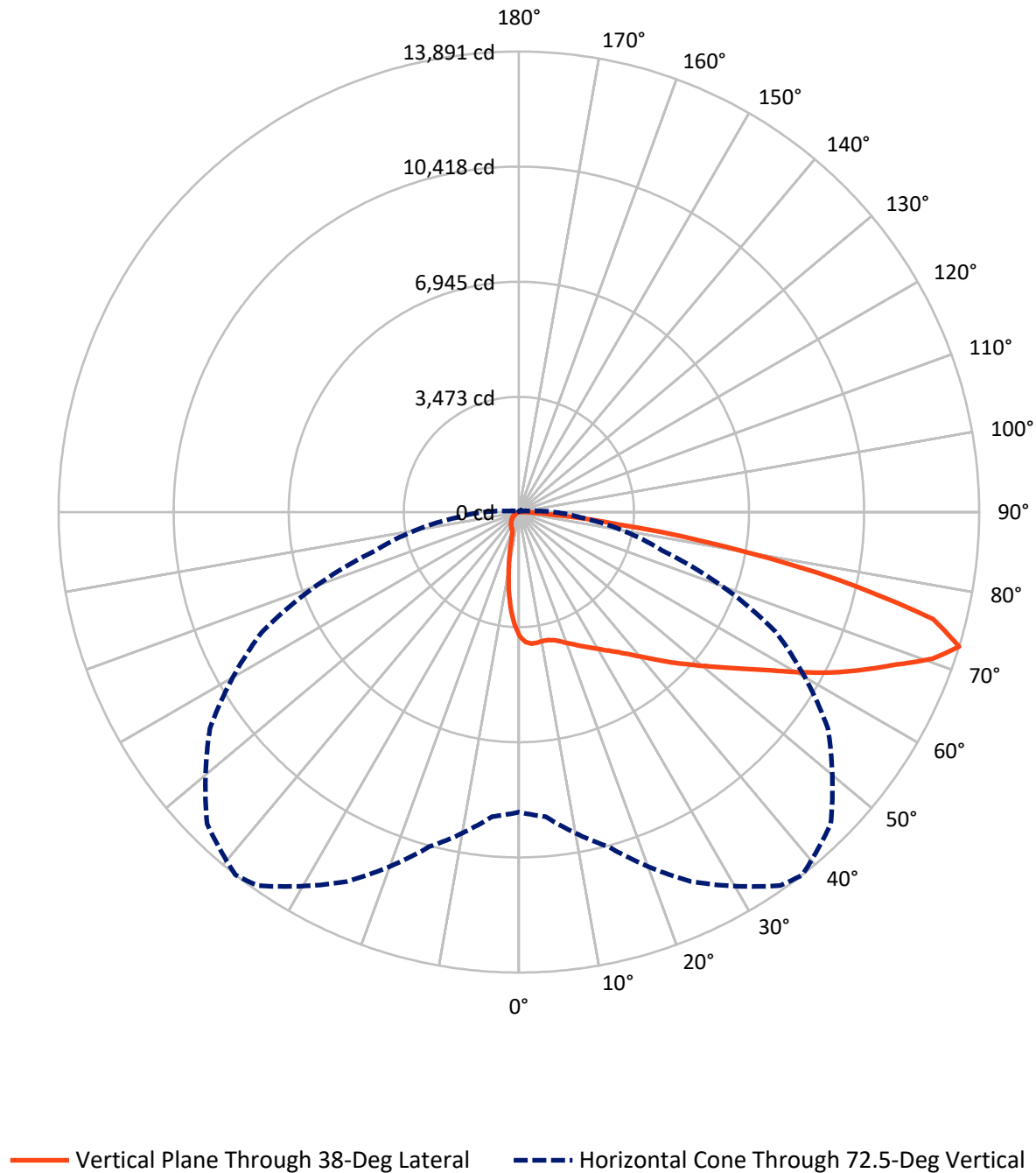
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P323960
CATALOG NUMBER: GAN-SA6B-827-U-SL4-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323960

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1716.1	0.0	1716.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18676.9	0.0	18676.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	20393.0	0.0	20393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.6	1.6
10°-20°	781.5	3.8
20°-30°	1242.9	6.1
30°-40°	1868.6	9.2
40°-50°	2850.7	14.0
50°-60°	4028.9	19.8
60°-70°	5053.6	24.8
70°-80°	3778.7	18.5
80°-90°	468.5	2.3
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°	20393.0	100.0
0°-180°	20393.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323960

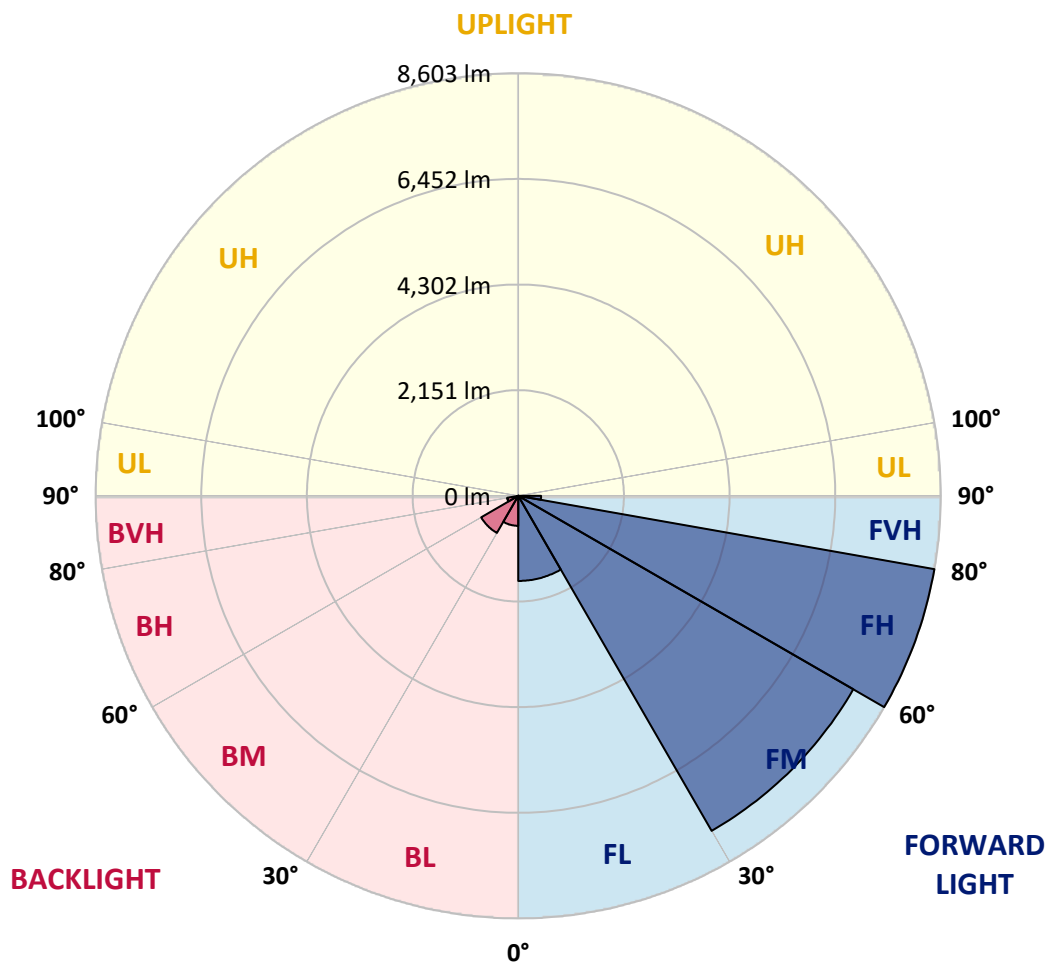
CATALOG NUMBER: GAN-SA6B-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1732.9	8.5			
FM	(30°-60°)	7876.7	38.6			
FH	(60°-80°)	8603.1	42.2			G4/12000
FVH	(80°-90°)	464.2	2.3			G3/500
BL	(0°-30°)	611.1	3.0	B2/1000		
BM	(30°-60°)	871.5	4.3	B1/1000		
BH	(60°-80°)	229.2	1.1	B1/500		G1/500
BVH	(80°-90°)	4.4	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-G4

Type IV Short





REPORT NUMBER: P323960

CATALOG NUMBER: GAN-SA6B-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2
2.5°	3980.6	3981.4	3972.1	3956.9	3937.4	3927.2	3910.3	3883.2	3854.4	3802.7	3746.8
5°	4061.9	4061.9	4050.0	4029.7	3998.4	3989.0	3956.9	3913.7	3854.4	3770.5	3676.5
7.5°	4053.4	4055.1	4039.0	4017.8	3986.5	3978.0	3939.1	3890.8	3817.1	3715.5	3595.2
10°	4009.4	4013.6	4000.9	3990.7	3961.9	3952.6	3916.2	3867.9	3794.2	3685.8	3547.8
12.5°	3964.5	3968.7	3972.9	3982.3	3964.5	3961.1	3932.3	3891.6	3821.3	3708.7	3552.9
15°	3935.7	3944.2	3974.6	4011.1	4015.3	4011.9	3993.3	3955.2	3884.0	3767.1	3589.3
17.5°	3935.7	3949.2	4012.8	4082.2	4106.8	4109.3	4093.2	4039.9	3955.2	3829.8	3623.2
20°	3968.7	3987.3	4086.4	4184.7	4225.3	4225.3	4194.0	4119.5	4020.4	3886.6	3646.0
22.5°	4053.4	4078.0	4202.5	4316.0	4359.1	4349.8	4307.5	4199.1	4088.1	3950.9	3674.8
25°	4220.3	4238.9	4368.5	4482.8	4509.1	4487.9	4434.5	4295.6	4174.5	4038.2	3727.3
27.5°	4435.4	4437.9	4571.7	4668.3	4652.2	4637.8	4570.9	4416.7	4299.0	4162.7	3818.0
30°	4671.7	4671.7	4789.4	4863.1	4813.9	4802.1	4735.2	4563.3	4458.2	4332.0	3946.7
32.5°	4900.3	4910.5	5006.2	5052.8	4997.7	4985.9	4920.7	4748.7	4670.0	4590.4	4147.4
35°	5121.4	5129.0	5219.6	5245.0	5192.5	5195.9	5149.3	5003.7	4974.0	4963.9	4449.8
37.5°	5335.7	5337.4	5429.7	5445.8	5419.5	5448.3	5452.5	5323.8	5378.9	5461.0	4875.8
40°	5531.3	5533.0	5624.5	5666.0	5710.8	5748.1	5781.1	5712.5	5894.6	6085.2	5383.1
42.5°	5688.0	5705.8	5821.8	5900.6	6019.1	6090.3	6180.0	6176.7	6508.7	6794.9	5996.3
45°	5826.0	5856.5	6018.3	6156.3	6359.6	6473.1	6613.7	6723.8	7199.8	7585.1	6617.1
47.5°	6008.1	6036.9	6221.5	6447.7	6718.7	6867.8	7100.7	7338.6	7959.4	8360.9	7223.5
50°	6264.7	6252.0	6434.1	6758.5	7106.6	7302.2	7634.2	7990.8	8713.2	9036.7	7580.0
52.5°	6538.3	6533.2	6667.9	7096.4	7563.9	7792.6	8231.3	8664.9	9434.0	9502.6	7743.5
55°	6877.1	6840.7	6954.1	7481.8	8106.8	8352.4	8869.0	9332.3	10008.2	9765.1	7825.6
57.5°	7231.9	7171.8	7280.2	7911.2	8719.1	9009.6	9575.4	9982.8	10390.1	9944.7	7824.8
60°	7598.7	7527.5	7656.2	8448.1	9479.7	9815.9	10341.0	10422.3	10746.7	10035.3	7767.2
62.5°	7905.2	7862.9	8054.3	9022.3	10329.2	10659.5	10919.5	10822.1	11047.4	10105.6	7632.5
65°	8229.6	8232.2	8541.3	9692.3	11232.0	11454.7	11476.7	11340.4	11298.9	10091.2	7176.9
67.5°	8668.3	8709.0	9224.8	10601.9	12110.3	12282.2	12280.5	11901.9	11482.7	9518.6	6166.5
70°	9132.4	9228.1	10012.4	11642.7	13069.0	13243.4	13153.7	12259.3	10811.9	7696.9	4364.2
72.5°	9054.5	9220.5	10450.3	12299.1	13757.5	13890.5	13307.0	11381.0	8545.5	4473.5	1858.2
75°	6985.5	7177.7	9582.2	11648.7	13035.1	12915.7	11433.6	8856.3	4670.0	1248.4	418.4
77.5°	3690.1	3792.6	6330.0	8874.1	10164.0	9914.2	8054.3	4913.0	1423.7	309.1	188.0
80°	1932.7	1956.4	2758.5	5035.0	6273.2	6274.9	4773.3	2158.0	586.9	158.4	126.2
82.5°	1034.9	1055.3	1457.6	2326.5	3286.9	2979.5	1827.7	1187.4	341.3	89.8	121.1
85°	249.0	253.2	826.6	1062.9	1292.4	923.2	542.9	996.8	92.3	52.5	98.2
87.5°	95.7	97.4	306.6	459.9	329.5	213.4	254.1	371.8	11.9	20.3	15.2
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: P323960

CATALOG NUMBER: GAN-SA6B-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2
2.5°	3712.9	3690.9	3636.7	3568.1	3507.1	3463.1	3397.0	3353.8	3325.0	3324.2	3313.2
5°	3618.9	3574.0	3457.2	3318.3	3192.1	3078.6	2944.8	2838.9	2760.1	2747.4	2720.3
7.5°	3518.1	3444.5	3264.9	3048.1	2836.4	2621.2	2371.4	2216.4	2083.4	2019.9	2013.2
10°	3456.3	3353.0	3098.1	2784.7	2452.7	2102.9	1776.0	1549.9	1386.4	1339.8	1305.1
12.5°	3443.6	3307.3	2969.3	2537.4	2063.1	1600.7	1239.1	998.5	868.1	826.6	815.6
15°	3456.3	3286.1	2860.9	2292.6	1668.5	1135.7	831.7	691.9	642.8	631.0	630.1
17.5°	3463.9	3260.7	2738.1	2020.8	1285.6	811.4	636.9	596.2	588.6	587.8	589.5
20°	3463.1	3221.7	2591.6	1717.6	956.2	637.7	575.9	567.4	565.7	566.6	565.7
22.5°	3457.2	3176.0	2430.7	1405.1	722.4	570.0	549.7	544.6	543.7	543.7	543.7
25°	3468.2	3139.6	2253.7	1106.1	595.4	538.6	525.9	521.7	520.9	520.9	519.2
27.5°	3508.0	3119.2	2059.7	851.2	537.8	510.7	500.5	499.7	497.1	496.3	498.0
30°	3572.4	3119.2	1847.2	662.3	503.1	481.9	474.3	472.6	471.7	470.9	471.7
32.5°	3685.8	3143.0	1615.1	550.5	470.0	449.7	444.6	447.2	444.6	444.6	444.6
35°	3890.8	3214.1	1372.0	480.2	435.3	418.4	413.3	416.7	415.0	415.0	414.1
37.5°	4189.8	3346.2	1127.3	437.9	404.8	387.0	380.3	385.4	383.7	383.7	382.8
40°	4553.9	3538.5	894.4	405.7	375.2	356.6	350.6	353.2	348.9	348.9	350.6
42.5°	5003.7	3782.4	691.1	374.3	345.5	327.8	324.4	321.8	314.2	310.0	310.8
45°	5503.4	4036.5	538.6	343.9	317.6	303.2	298.1	291.3	278.6	270.2	271.0
47.5°	5949.7	4232.1	437.9	314.2	292.2	281.2	273.6	260.9	242.2	232.1	232.9
50°	6184.3	4261.8	372.6	284.6	268.5	257.5	246.5	227.0	205.0	193.9	193.1
52.5°	6244.4	4122.9	324.4	257.5	244.8	232.1	217.7	191.4	166.8	155.0	153.3
55°	6266.4	3911.1	281.2	232.1	219.4	205.0	186.3	156.7	133.8	122.0	121.1
57.5°	6193.6	3595.2	247.3	209.2	193.9	176.2	153.3	125.3	103.3	94.0	94.0
60°	6031.8	3167.5	221.0	184.6	167.7	147.4	123.7	97.4	77.1	69.4	69.4
62.5°	5709.2	2613.6	196.5	159.2	143.1	122.0	99.9	73.7	54.2	50.0	50.8
65°	5100.2	1982.7	171.9	136.4	122.0	100.8	77.9	52.5	36.4	36.4	38.1
67.5°	4159.3	1377.1	146.5	116.0	105.0	82.2	59.3	36.4	25.4	28.8	32.2
70°	2753.4	772.4	125.3	95.7	89.8	65.2	44.0	24.6	20.3	27.1	33.0
72.5°	1039.2	300.7	105.0	77.1	77.9	50.0	31.3	18.6	18.6	29.6	39.0
75°	289.7	147.4	75.4	56.7	61.0	36.4	22.9	16.1	17.8	33.9	45.7
77.5°	170.2	108.4	49.1	33.0	41.5	25.4	15.2	12.7	15.2	28.8	44.0
80°	137.2	57.6	28.8	16.9	22.9	14.4	10.2	7.6	4.2	11.0	22.9
82.5°	137.2	34.7	13.6	11.9	11.9	7.6	5.1	3.4	0.8	0.0	5.9
85°	92.3	14.4	8.5	7.6	5.9	2.5	1.7	0.8	0.0	0.0	0.0
87.5°	15.2	5.9	3.4	1.7	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)