

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: P321670

Luminaire Tested: **GAN-SA6A-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21436 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

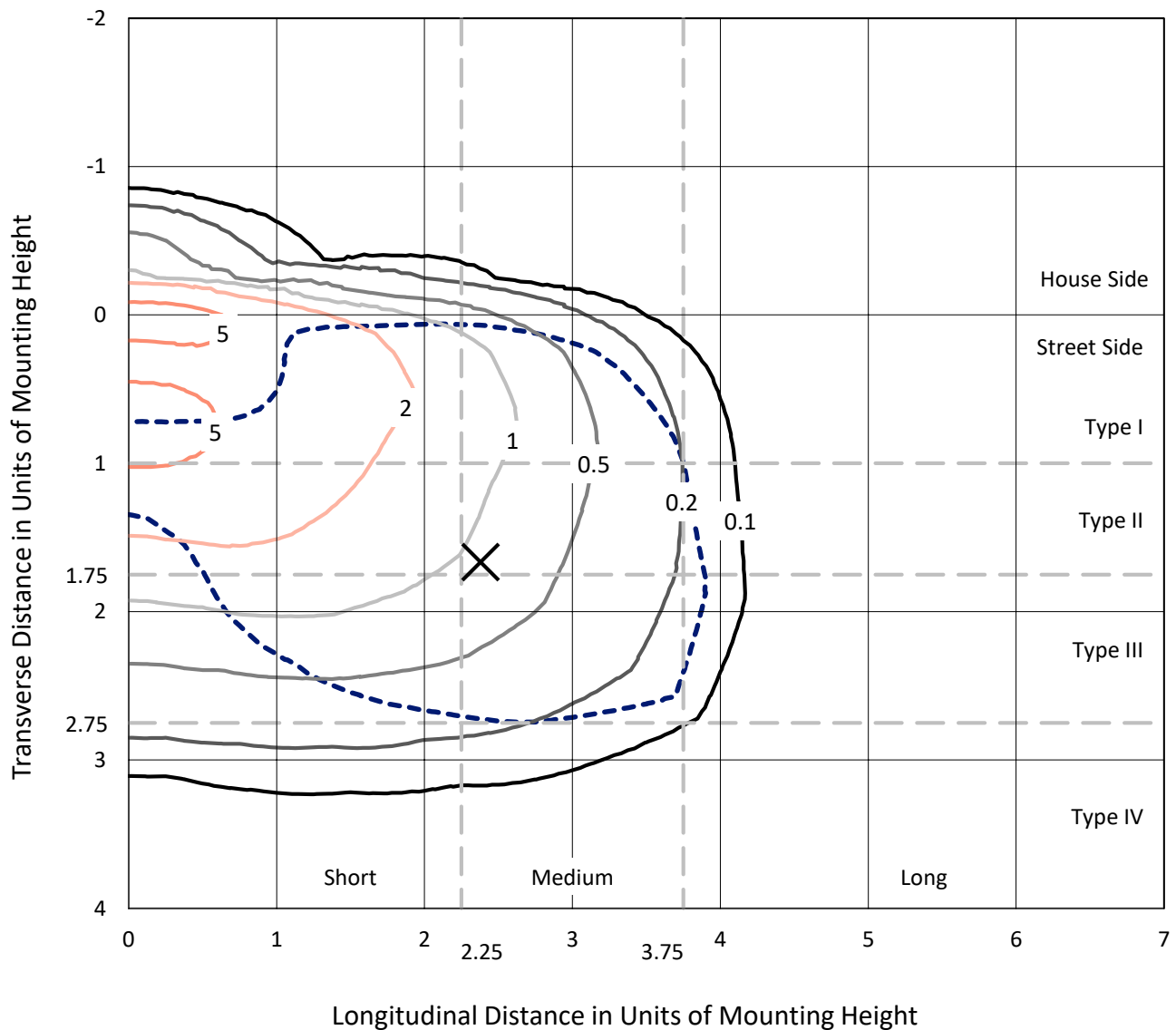
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321670
 CATALOG NUMBER: GAN-SA6A-760-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

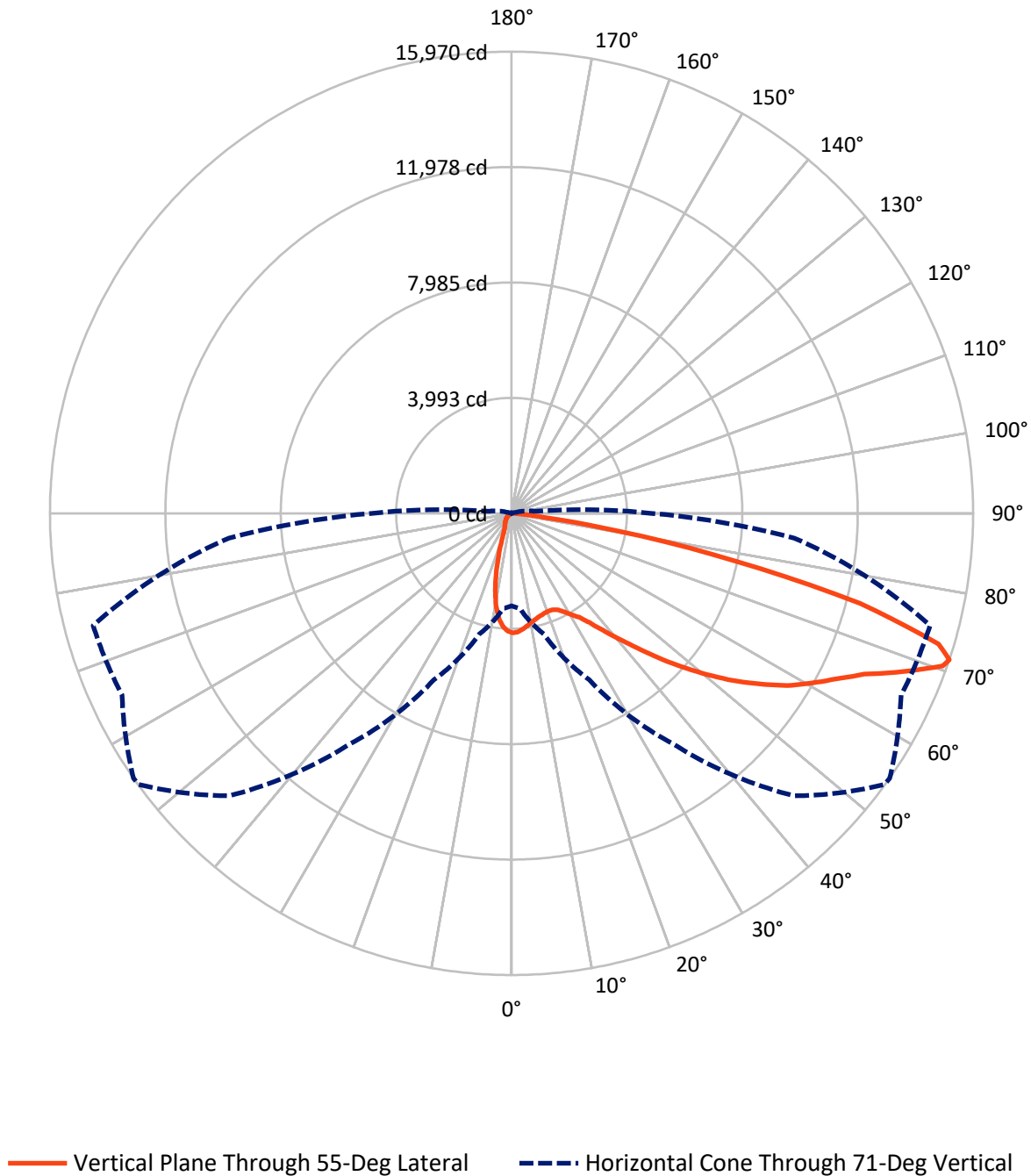
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P321670
CATALOG NUMBER: GAN-SA6A-760-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321670

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1697.2	0.0	1697.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	19738.9	0.0	19738.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	21436.0	0.0	21436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.6
10°-20°	795.7	3.7
20°-30°	1278.8	6.0
30°-40°	2172.7	10.1
40°-50°	3372.4	15.7
50°-60°	4534.1	21.2
60°-70°	5546.6	25.9
70°-80°	3243.0	15.1
80°-90°	140.2	0.7
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°	21436.0	100.0
0°-180°	21436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321670

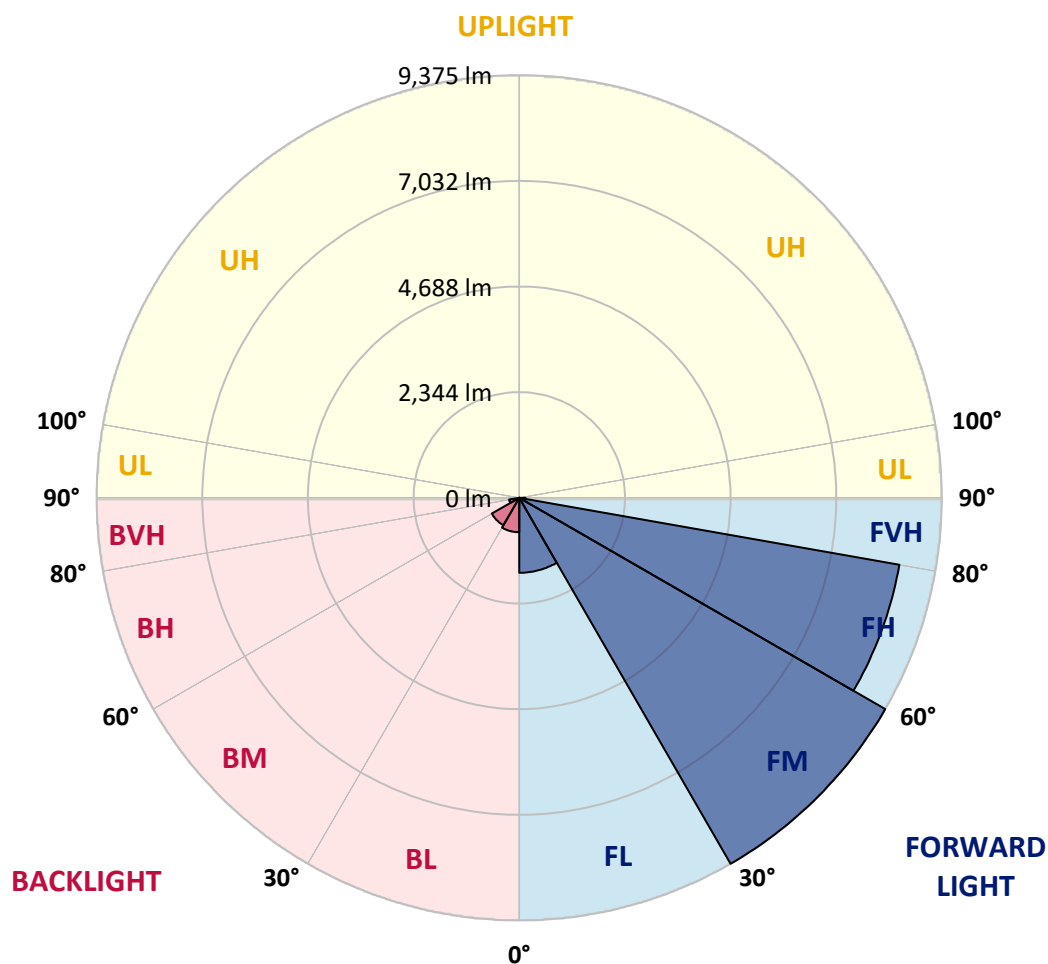
CATALOG NUMBER: GAN-SA6A-760-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1663.1	7.8			
FM	(30°-60°)	9375.5	43.7			
FH	(60°-80°)	8562.3	39.9			G4/12000
FVH	(80°-90°)	138.0	0.6			G2/225
BL	(0°-30°)	763.9	3.6	B2/1000		
BM	(30°-60°)	703.7	3.3	B1/1000		
BH	(60°-80°)	227.4	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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 III Medium



REPORT NUMBER: P321670

CATALOG NUMBER: GAN-SA6A-760-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0
2.5°	4012.7	4017.5	4034.9	4042.6	4060.9	4091.7	4107.1	4108.0	4133.0	4142.7	4150.4
5°	3728.8	3757.7	3786.5	3817.3	3873.2	3947.3	4020.4	4027.2	4108.0	4167.7	4199.5
7.5°	3484.3	3510.3	3544.9	3594.0	3673.0	3789.4	3911.7	3926.1	4079.1	4214.9	4286.1
10°	3233.1	3254.3	3304.3	3376.5	3485.3	3641.2	3805.8	3829.9	4053.2	4278.4	4403.5
12.5°	2964.6	2977.1	3037.7	3141.7	3301.4	3499.7	3716.3	3748.0	4036.8	4351.5	4542.1
15°	2760.5	2766.3	2824.0	2931.8	3114.7	3372.7	3647.0	3685.5	4040.6	4439.1	4693.2
17.5°	2708.5	2711.4	2742.2	2816.3	2978.0	3259.1	3592.1	3639.3	4052.2	4524.8	4845.3
20°	2919.3	2899.1	2867.3	2855.8	2925.1	3190.7	3559.4	3612.3	4067.6	4600.8	4982.0
22.5°	3497.8	3438.1	3306.2	3130.1	3023.3	3195.6	3568.0	3621.0	4116.7	4694.2	5139.8
25°	4356.4	4273.6	4049.3	3702.8	3369.8	3334.2	3640.2	3694.1	4212.0	4805.8	5291.0
27.5°	5333.3	5251.5	4977.2	4482.4	3914.6	3608.5	3805.8	3855.8	4353.5	4905.0	5406.5
30°	6268.9	6245.8	5922.4	5360.3	4599.9	4053.2	4019.5	4061.8	4458.4	4964.7	5497.9
32.5°	7062.0	7025.4	6765.5	6218.8	5384.3	4587.4	4270.7	4283.2	4537.3	5041.7	5617.2
35°	7797.3	7752.1	7524.0	7007.1	6189.0	5239.9	4657.6	4639.3	4709.6	5196.6	5790.5
37.5°	8439.3	8480.7	8227.6	7735.7	6910.9	5918.5	5179.3	5124.4	4979.1	5448.8	6041.7
40°	8976.4	8976.4	8844.6	8434.5	7690.5	6620.2	5769.3	5697.1	5384.3	5837.7	6360.3
42.5°	9169.9	9211.3	9260.4	9028.4	8388.3	7349.8	6426.7	6351.6	5955.1	6389.2	6762.6
45°	9181.4	9246.9	9498.1	9497.2	9018.8	8074.6	7167.9	7132.2	6686.6	7097.6	7261.2
47.5°	9018.8	9100.6	9514.5	9749.3	9518.3	8749.3	7978.3	7934.0	7546.1	7965.8	7782.9
50°	8767.6	8858.0	9339.3	9848.5	9858.1	9336.4	8832.1	8765.6	8492.3	8958.1	8321.9
52.5°	8318.1	8493.2	9182.4	9871.6	10081.4	9843.7	9644.4	9615.5	9551.1	9913.9	8751.2
55°	7356.5	7550.9	8788.7	9879.3	10288.3	10293.2	10405.8	10413.5	10543.4	10807.1	9070.8
57.5°	6902.2	7011.9	8101.5	9915.8	10595.4	10803.3	11181.6	11241.2	11442.4	11655.1	9435.6
60°	6616.3	6746.3	7762.7	9865.8	11077.6	11472.2	11900.6	11920.8	12136.4	12530.0	9929.3
62.5°	6388.2	6516.2	7549.0	9673.3	11619.5	12276.9	12603.2	12605.1	12766.8	13572.4	10490.5
65°	5825.2	5933.0	7116.8	9456.7	11977.6	13072.9	13419.4	13406.9	13538.8	14671.6	11142.1
67.5°	5010.9	5093.6	6234.2	8635.7	11842.8	13796.7	14651.4	14610.0	14450.3	15621.6	11398.1
70°	3874.1	3904.0	4913.6	7196.7	10580.0	14074.9	15842.1	15820.9	15009.5	15451.3	10459.7
71°	3202.3	3300.5	4330.4	6351.6	9733.9	13817.9	15957.6	15970.1	14869.0	14987.3	9813.8
72.5°	1859.6	1943.3	3138.8	4878.0	8264.2	12745.6	15358.9	15449.4	14212.5	13632.1	8382.6
75°	398.5	426.4	1163.7	2361.1	4546.0	8933.1	12122.9	12445.3	11583.9	9273.8	5052.3
77.5°	277.2	299.3	498.6	1071.3	1502.5	4414.1	7530.7	7894.6	6920.5	3485.3	1617.0
80°	219.5	244.5	388.9	529.4	406.2	1423.6	3527.6	3750.0	2308.1	777.7	272.4
82.5°	122.2	145.3	303.2	285.9	155.9	270.5	987.5	1116.5	462.0	156.9	64.5
85°	35.6	43.3	195.4	207.9	66.4	52.0	168.4	208.9	87.6	41.4	28.9
87.5°	0.0	0.0	94.3	79.9	19.3	7.7	15.4	17.3	17.3	17.3	19.3
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: P321670

CATALOG NUMBER: GAN-SA6A-760-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0	4134.0
2.5°	4150.4	4157.1	4133.0	4101.3	4067.6	4026.2	3982.9	3949.2	3948.2	3931.9	3915.5
5°	4201.4	4197.5	4131.1	4030.1	3910.7	3786.5	3668.2	3534.4	3490.1	3435.2	3416.9
7.5°	4295.7	4268.8	4128.2	3906.9	3645.1	3385.2	3116.6	2846.2	2730.7	2626.7	2608.4
10°	4414.1	4363.1	4109.9	3722.1	3241.8	2762.4	2357.2	1989.5	1827.8	1703.7	1697.9
12.5°	4537.3	4459.3	4058.9	3442.9	2713.3	2039.6	1572.8	1210.8	1076.1	989.5	997.2
15°	4666.3	4549.8	3949.2	3066.6	2111.8	1384.1	966.4	753.7	699.7	677.6	683.4
17.5°	4798.1	4612.4	3796.2	2613.2	1517.9	893.2	668.9	609.3	609.3	614.1	616.0
20°	4912.7	4646.1	3570.9	2105.0	1028.9	650.7	585.2	576.5	581.4	589.1	590.0
22.5°	5026.3	4648.0	3277.4	1590.1	720.0	569.8	557.3	553.4	556.3	565.0	566.0
25°	5118.7	4624.9	2909.7	1131.0	574.6	537.1	531.3	529.4	531.3	541.9	541.9
27.5°	5156.2	4541.2	2461.2	795.0	514.9	500.5	498.6	500.5	503.4	511.1	512.1
30°	5160.1	4394.9	1972.2	575.6	466.8	451.4	455.3	462.0	459.1	457.2	459.1
32.5°	5169.7	4225.4	1495.8	473.6	426.4	402.3	397.5	397.5	386.0	379.2	375.4
35°	5201.4	4026.2	1084.8	425.4	385.0	357.1	338.8	317.6	295.5	283.9	281.1
37.5°	5251.5	3817.3	776.8	393.7	348.4	316.7	282.0	244.5	212.7	204.1	204.1
40°	5342.9	3601.7	574.6	368.6	319.6	280.1	228.1	179.0	150.2	145.3	145.3
42.5°	5487.3	3374.6	458.2	346.5	294.5	242.6	174.2	129.9	108.8	105.9	104.9
45°	5637.5	3124.3	400.4	325.3	267.6	199.2	129.0	96.3	83.7	80.9	80.9
47.5°	5787.6	2857.7	372.5	305.1	241.6	155.0	96.3	76.0	70.3	70.3	71.2
50°	5914.7	2579.5	352.3	283.0	207.9	117.4	76.0	64.5	62.6	66.4	67.4
52.5°	5946.4	2306.2	327.3	255.1	166.5	89.5	62.6	56.8	56.8	56.8	56.8
55°	5927.2	2094.4	294.5	220.4	123.2	71.2	53.9	50.1	49.1	49.1	49.1
57.5°	5992.6	1969.3	235.8	171.3	88.6	57.8	47.2	44.3	42.4	41.4	41.4
60°	6124.5	1887.5	168.4	123.2	66.4	48.1	40.4	37.5	34.7	32.7	32.7
62.5°	6299.7	1816.3	125.1	91.4	51.0	38.5	33.7	30.8	27.0	25.0	25.0
65°	6434.4	1689.2	95.3	68.3	38.5	30.8	26.0	25.0	19.3	17.3	16.4
67.5°	6228.4	1410.1	77.0	50.1	28.9	24.1	20.2	19.3	11.6	9.6	9.6
70°	5342.0	981.8	61.6	36.6	21.2	19.3	16.4	12.5	8.7	7.7	7.7
71°	4844.3	820.1	55.8	30.8	18.3	18.3	15.4	10.6	7.7	6.7	6.7
72.5°	4024.3	582.3	47.2	24.1	16.4	19.3	16.4	9.6	7.7	6.7	5.8
75°	2336.0	243.5	32.7	16.4	12.5	23.1	21.2	8.7	5.8	4.8	4.8
77.5°	702.6	89.5	18.3	10.6	9.6	20.2	24.1	7.7	2.9	1.0	1.0
80°	128.0	38.5	11.6	6.7	6.7	12.5	18.3	3.9	0.0	0.0	0.0
82.5°	45.2	19.3	6.7	3.9	2.9	5.8	8.7	0.0	0.0	0.0	0.0
85°	26.0	13.5	3.9	1.9	0.0	1.0	1.9	0.0	0.0	0.0	0.0
87.5°	17.3	3.9	0.0	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)