

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: P321688

Luminaire Tested: **GAN-SA4C-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321688
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-SA4C-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 21943 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

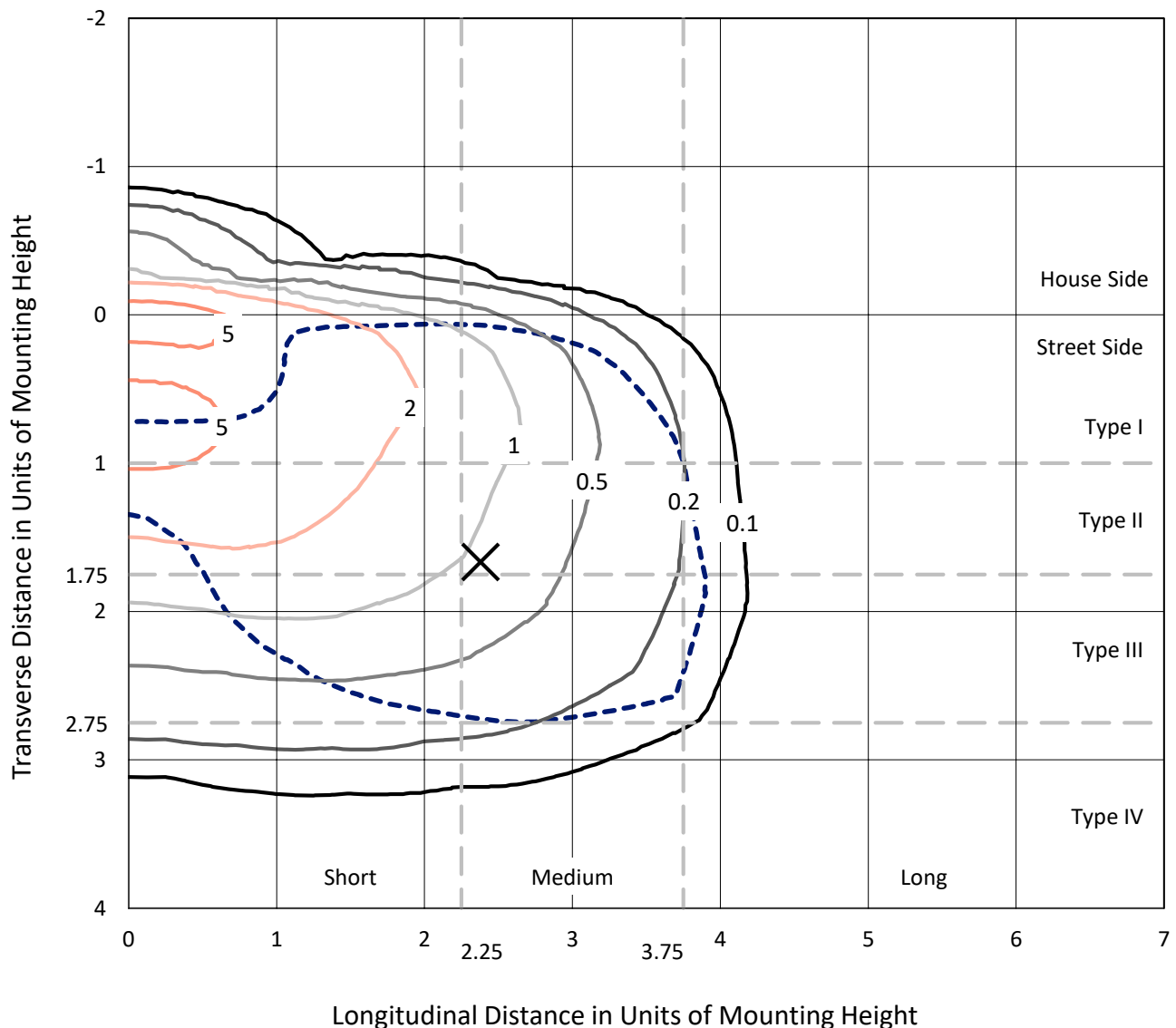
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

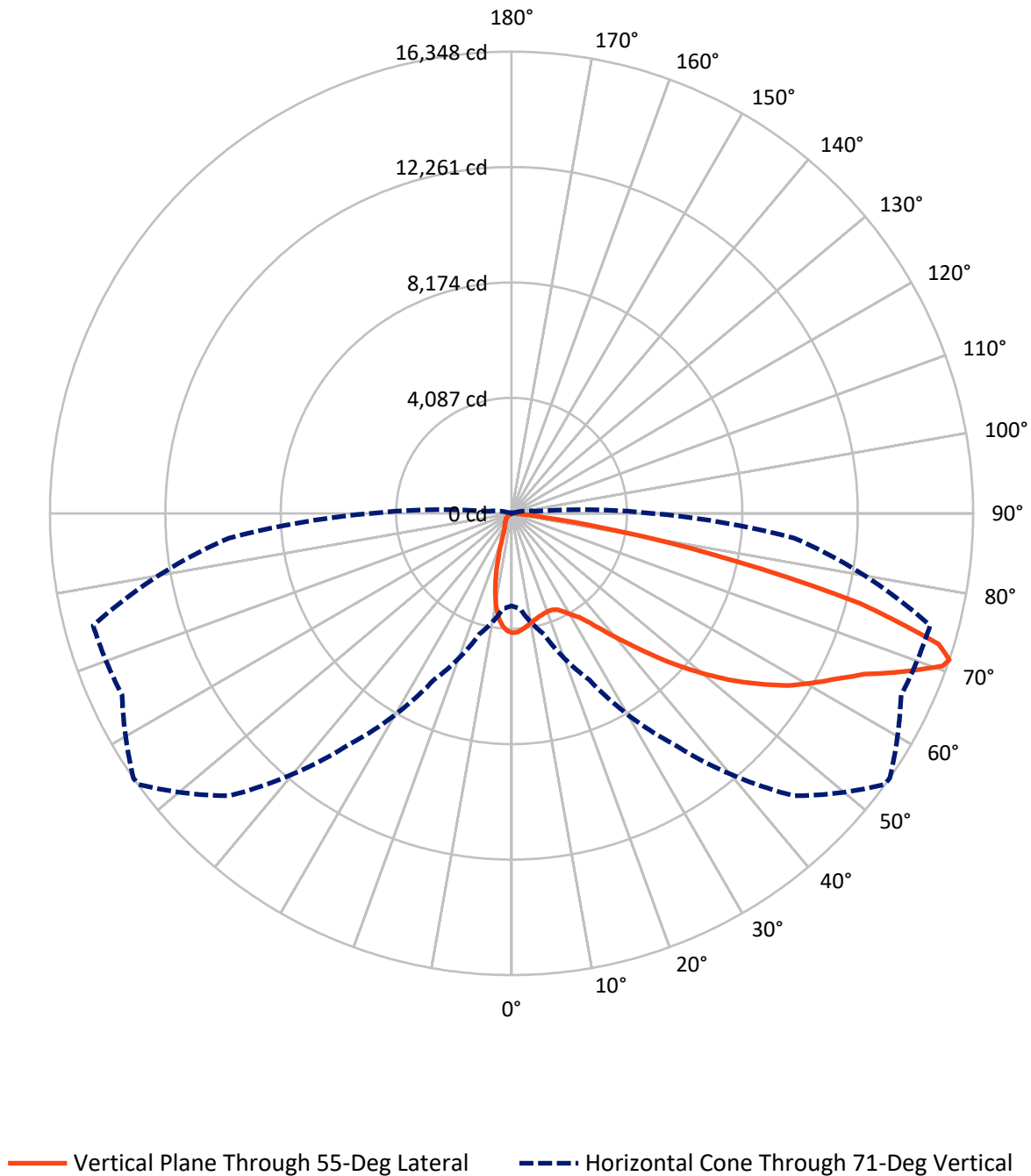
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1737.3	0.0	1737.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20205.7	0.0	20205.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	21943.0	0.0	21943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.8	1.6
10°-20°	814.6	3.7
20°-30°	1309.0	6.0
30°-40°	2224.1	10.1
40°-50°	3452.1	15.7
50°-60°	4641.3	21.2
60°-70°	5677.8	25.9
70°-80°	3319.7	15.1
80°-90°	143.5	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°	21943.0	100.0
0°-180°	21943.0	100.0

Coefficient of Utilization



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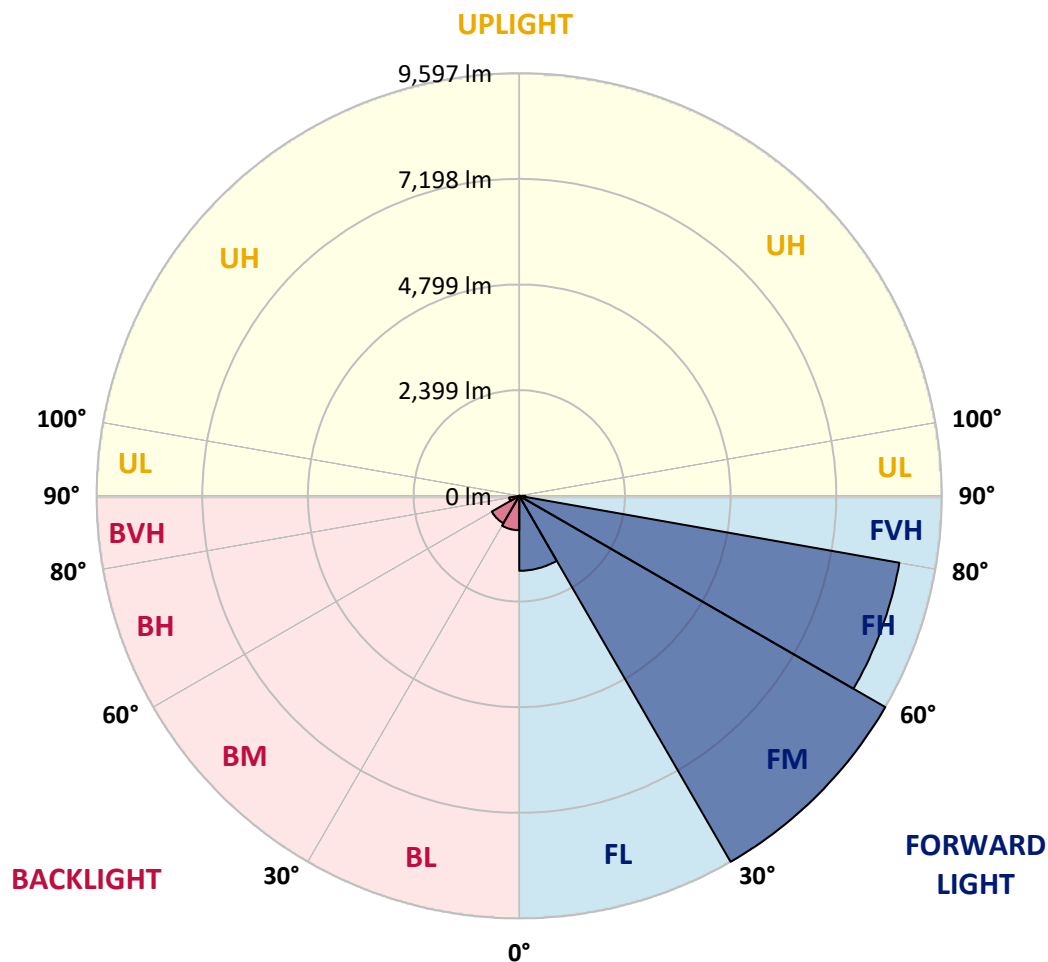
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1702.5	7.8			
FM	(30°-60°)	9597.2	43.7			
FH	(60°-80°)	8764.8	39.9			G4/12000
FVH	(80°-90°)	141.2	0.6			G2/225
BL	(0°-30°)	782.0	3.6	B2/1000		
BM	(30°-60°)	720.3	3.3	B1/1000		
BH	(60°-80°)	232.8	1.1	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8
2.5°	4107.6	4112.6	4130.3	4138.2	4156.9	4188.4	4204.2	4205.2	4230.8	4240.7	4248.5
5°	3817.0	3846.5	3876.1	3907.6	3964.8	4040.6	4115.5	4122.4	4205.2	4266.3	4298.8
7.5°	3566.7	3593.3	3628.8	3679.0	3759.8	3879.1	4004.2	4019.0	4175.6	4314.5	4387.5
10°	3309.6	3331.2	3382.5	3456.4	3567.7	3727.3	3895.8	3920.4	4149.0	4379.6	4507.7
12.5°	3034.7	3047.5	3109.6	3216.0	3379.5	3582.5	3804.2	3836.7	4132.3	4454.5	4649.5
15°	2825.8	2831.7	2890.8	3001.2	3188.4	3452.4	3733.2	3772.6	4136.2	4544.1	4804.2
17.5°	2772.6	2775.5	2807.1	2882.9	3048.5	3336.2	3677.1	3725.4	4148.0	4631.8	4959.9
20°	2988.4	2967.7	2935.2	2923.3	2994.3	3266.2	3643.6	3697.8	4163.8	4709.6	5099.8
22.5°	3580.5	3519.4	3384.4	3204.1	3094.8	3271.1	3652.4	3706.6	4214.1	4805.2	5261.4
25°	4459.4	4374.7	4145.1	3790.4	3449.5	3413.0	3726.3	3781.5	4311.6	4919.5	5416.1
27.5°	5459.4	5375.7	5094.9	4588.5	4007.1	3693.8	3895.8	3947.0	4456.4	5021.0	5534.3
30°	6417.1	6393.5	6062.4	5487.0	4708.7	4149.0	4114.5	4157.9	4563.8	5082.1	5627.9
32.5°	7229.0	7191.6	6925.5	6365.9	5511.7	4695.9	4371.7	4384.5	4644.6	5160.9	5750.1
35°	7981.8	7935.5	7701.9	7172.9	6335.4	5363.9	4767.8	4749.1	4821.0	5319.5	5927.5
37.5°	8639.0	8681.3	8422.2	7918.7	7074.3	6058.5	5301.8	5245.6	5096.9	5577.7	6184.6
40°	9188.7	9188.7	9053.8	8634.0	7872.4	6776.8	5905.8	5831.9	5511.7	5975.7	6510.7
42.5°	9386.8	9429.1	9479.4	9241.9	8586.7	7523.6	6578.7	6501.9	6095.9	6540.3	6922.6
45°	9398.6	9465.6	9722.8	9721.8	9232.1	8265.5	7337.4	7300.9	6844.8	7265.5	7433.0
47.5°	9232.1	9315.8	9739.5	9979.9	9743.5	8956.2	8167.0	8121.7	7724.6	8154.2	7967.0
50°	8974.9	9067.6	9560.2	10081.4	10091.3	9557.2	9040.9	8973.0	8693.1	9170.0	8518.7
52.5°	8514.8	8694.1	9399.6	10105.1	10319.8	10076.5	9872.5	9843.0	9777.0	10148.4	8958.2
55°	7530.5	7729.5	8996.6	10112.9	10531.7	10536.6	10651.9	10659.8	10792.8	11062.7	9285.3
57.5°	7065.5	7177.8	8293.1	10150.4	10846.0	11058.8	11446.0	11507.1	11713.0	11930.8	9658.7
60°	6772.8	6905.8	7946.3	10099.1	11339.6	11743.6	12182.0	12202.7	12423.4	12826.4	10164.2
62.5°	6539.3	6670.4	7727.6	9902.1	11894.3	12567.3	12901.3	12903.3	13068.8	13893.5	10738.6
65°	5962.9	6073.3	7285.2	9680.4	12260.8	13382.1	13736.8	13724.0	13859.0	15018.7	11405.6
67.5°	5129.4	5214.1	6381.7	8840.0	12122.9	14123.0	14998.0	14955.6	14792.0	15991.1	11667.7
70°	3965.8	3996.3	5029.9	7367.0	10830.2	14407.8	16216.8	16195.1	15364.5	15816.7	10707.1
71°	3278.0	3378.5	4432.8	6501.9	9964.2	14144.7	16335.0	16347.8	15220.6	15341.8	10045.9
72.5°	1903.6	1989.3	3213.0	4993.4	8459.6	13047.1	15722.1	15814.8	14548.7	13954.5	8580.8
75°	407.9	436.5	1191.2	2416.9	4653.5	9144.4	12409.6	12739.7	11857.9	9493.2	5171.7
77.5°	283.8	306.4	510.4	1096.6	1538.0	4518.5	7708.8	8081.3	7084.2	3567.7	1655.3
80°	224.6	250.3	398.1	541.9	415.8	1457.2	3611.1	3838.7	2362.7	796.1	278.8
82.5°	125.1	148.8	310.4	292.6	159.6	276.9	1010.9	1142.9	472.9	160.6	66.0
85°	36.5	44.3	200.0	212.8	68.0	53.2	172.4	213.8	89.7	42.4	29.6
87.5°	0.0	0.0	96.6	81.8	19.7	7.9	15.8	17.7	17.7	17.7	19.7
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°	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8	4231.8
2.5°	4248.5	4255.4	4230.8	4198.3	4163.8	4121.4	4077.1	4042.6	4041.6	4024.9	4008.1
5°	4300.8	4296.8	4228.8	4125.4	4003.2	3876.1	3754.9	3618.0	3572.6	3516.5	3497.8
7.5°	4397.3	4369.7	4225.9	3999.3	3731.3	3465.2	3190.3	2913.5	2795.2	2688.8	2670.1
10°	4518.5	4466.3	4207.2	3810.1	3318.4	2827.8	2413.0	2036.6	1871.1	1743.9	1738.0
12.5°	4644.6	4564.8	4154.9	3524.4	2777.5	2087.8	1610.0	1239.5	1101.5	1012.9	1020.8
15°	4776.6	4657.4	4042.6	3139.1	2161.7	1416.8	989.2	771.5	716.3	693.6	699.6
17.5°	4911.6	4721.5	3886.0	2675.0	1553.8	914.3	684.8	623.7	623.7	628.6	630.6
20°	5028.9	4756.0	3655.4	2154.8	1053.3	666.1	599.1	590.2	595.1	603.0	604.0
22.5°	5145.1	4757.9	3354.9	1627.7	737.0	583.3	570.5	566.5	569.5	578.4	579.3
25°	5239.7	4734.3	2978.5	1157.7	588.2	549.8	543.9	541.9	543.9	554.7	554.7
27.5°	5278.2	4648.6	2519.4	813.8	527.1	512.3	510.4	512.3	515.3	523.2	524.2
30°	5282.1	4498.8	2018.8	589.2	477.9	462.1	466.0	472.9	470.0	468.0	470.0
32.5°	5291.9	4325.4	1531.1	484.8	436.5	411.8	406.9	406.9	395.1	388.2	384.3
35°	5324.5	4121.4	1110.4	435.5	394.1	365.5	346.8	325.1	302.5	290.7	287.7
37.5°	5375.7	3907.6	795.1	403.0	356.7	324.2	288.7	250.3	217.7	208.9	208.9
40°	5469.3	3686.9	588.2	377.4	327.1	286.7	233.5	183.3	153.7	148.8	148.8
42.5°	5617.1	3454.4	469.0	354.7	301.5	248.3	178.3	133.0	111.3	108.4	107.4
45°	5770.8	3198.2	409.9	333.0	273.9	204.0	132.0	98.5	85.7	82.8	82.8
47.5°	5924.5	2925.3	381.3	312.3	247.3	158.6	98.5	77.8	71.9	71.9	72.9
50°	6054.6	2640.6	360.6	289.7	212.8	120.2	77.8	66.0	64.0	68.0	69.0
52.5°	6087.1	2360.7	335.0	261.1	170.5	91.6	64.0	58.1	58.1	58.1	58.1
55°	6067.4	2144.0	301.5	225.6	126.1	72.9	55.2	51.2	50.2	50.2	50.2
57.5°	6134.4	2015.9	241.4	175.4	90.6	59.1	48.3	45.3	43.4	42.4	42.4
60°	6269.3	1932.1	172.4	126.1	68.0	49.3	41.4	38.4	35.5	33.5	33.5
62.5°	6448.7	1859.2	128.1	93.6	52.2	39.4	34.5	31.5	27.6	25.6	25.6
65°	6586.6	1729.2	97.5	70.0	39.4	31.5	26.6	25.6	19.7	17.7	16.7
67.5°	6375.8	1443.4	78.8	51.2	29.6	24.6	20.7	19.7	11.8	9.9	9.9
70°	5468.3	1005.0	63.1	37.4	21.7	19.7	16.7	12.8	8.9	7.9	7.9
71°	4958.9	839.5	57.1	31.5	18.7	18.7	15.8	10.8	7.9	6.9	6.9
72.5°	4119.5	596.1	48.3	24.6	16.7	19.7	16.7	9.9	7.9	6.9	5.9
75°	2391.3	249.3	33.5	16.7	12.8	23.6	21.7	8.9	5.9	4.9	4.9
77.5°	719.3	91.6	18.7	10.8	9.9	20.7	24.6	7.9	3.0	1.0	1.0
80°	131.0	39.4	11.8	6.9	6.9	12.8	18.7	3.9	0.0	0.0	0.0
82.5°	46.3	19.7	6.9	3.9	3.0	5.9	8.9	0.0	0.0	0.0	0.0
85°	26.6	13.8	3.9	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.7	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)