

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: P322793

Luminaire Tested: **GAN-SA9A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25252 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

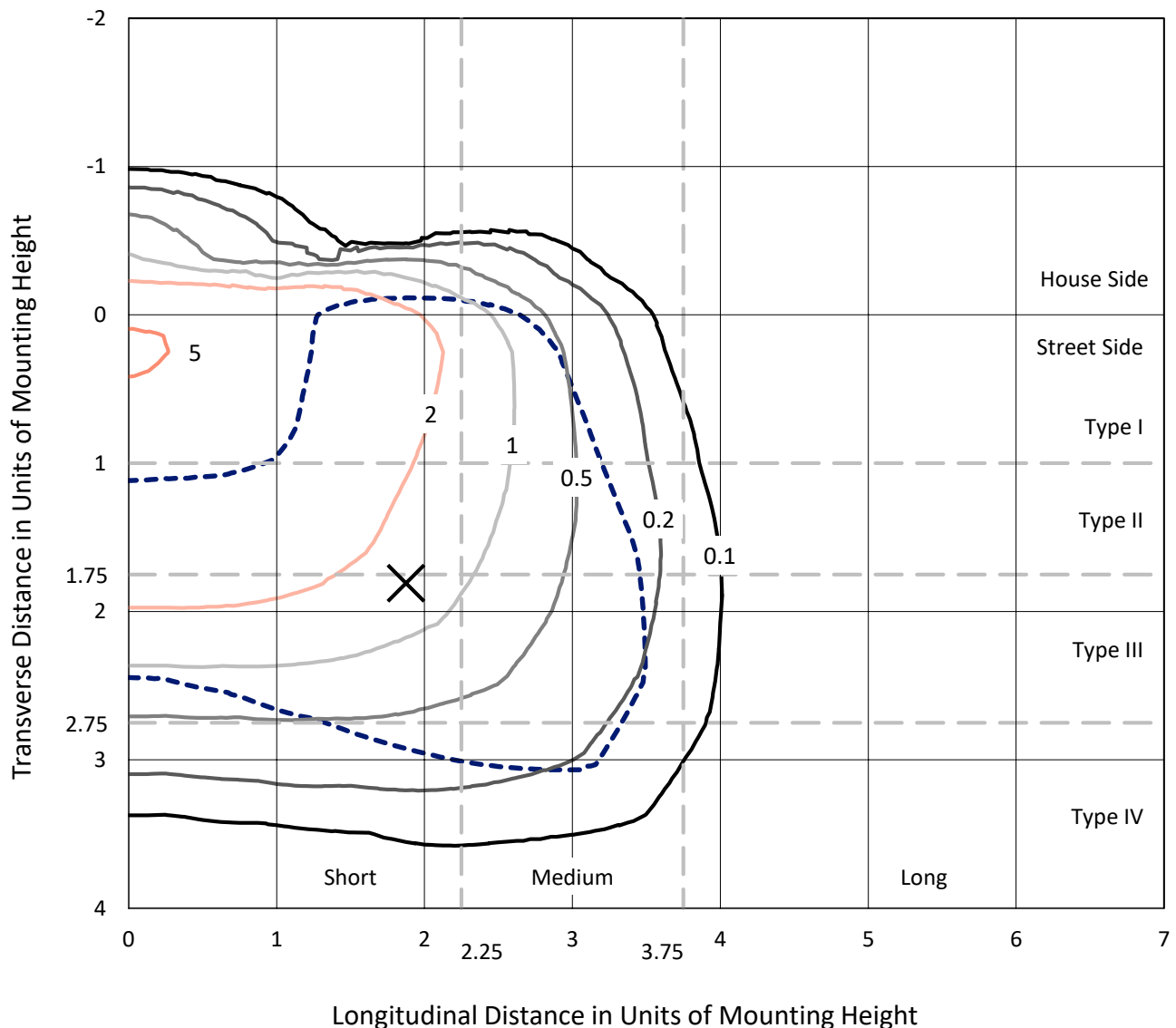
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

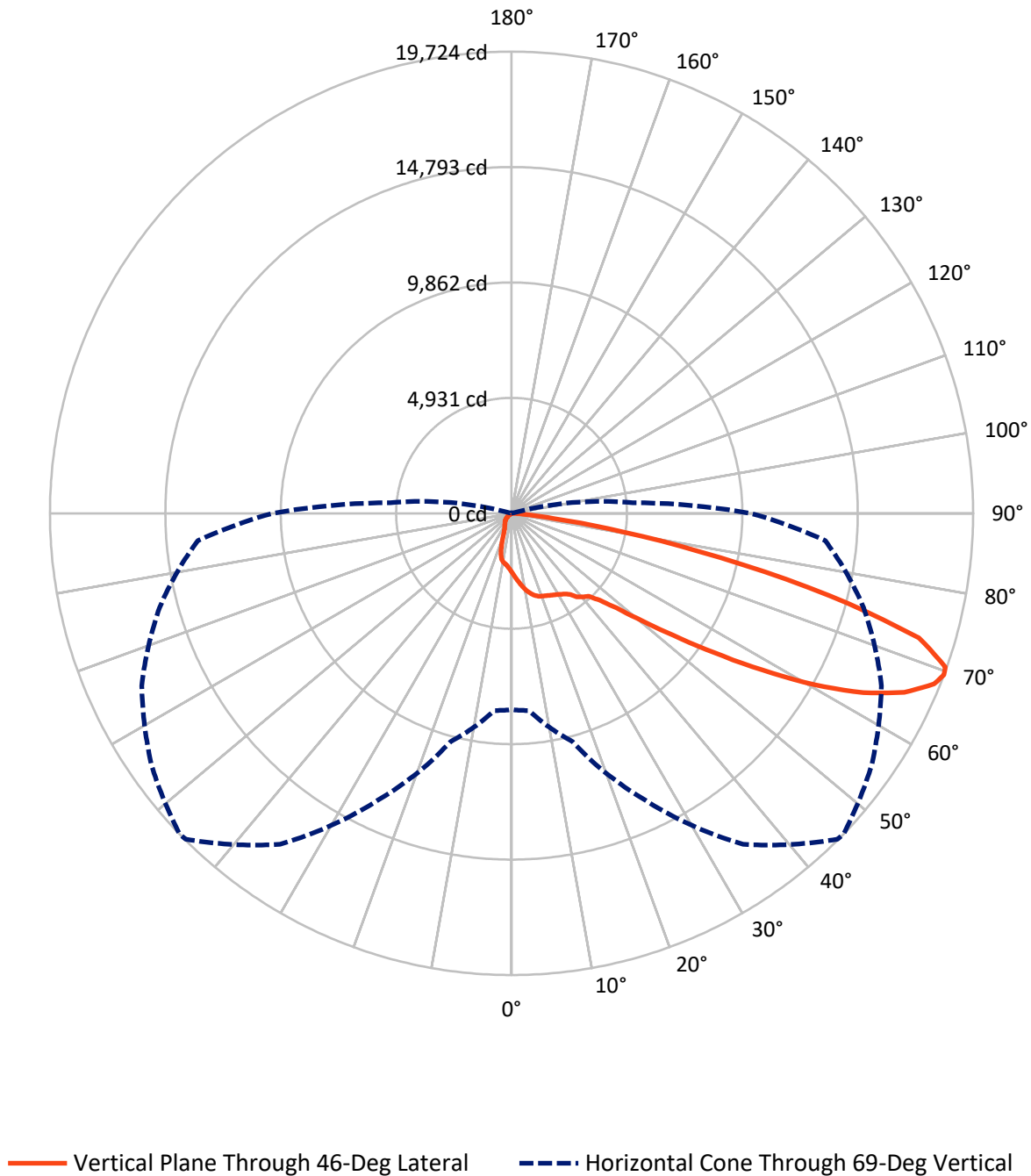
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.5	0.0	2591.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22660.5	0.0	22660.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	25252.0	0.0	25252.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.0
10°-20°	764.0	3.0
20°-30°	1201.5	4.8
30°-40°	1723.0	6.8
40°-50°	2978.0	11.8
50°-60°	5883.4	23.3
60°-70°	8222.5	32.6
70°-80°	3972.4	15.7
80°-90°	255.3	1.0
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°	25252.0	100.0
0°-180°	25252.0	100.0

Coefficient of Utilization



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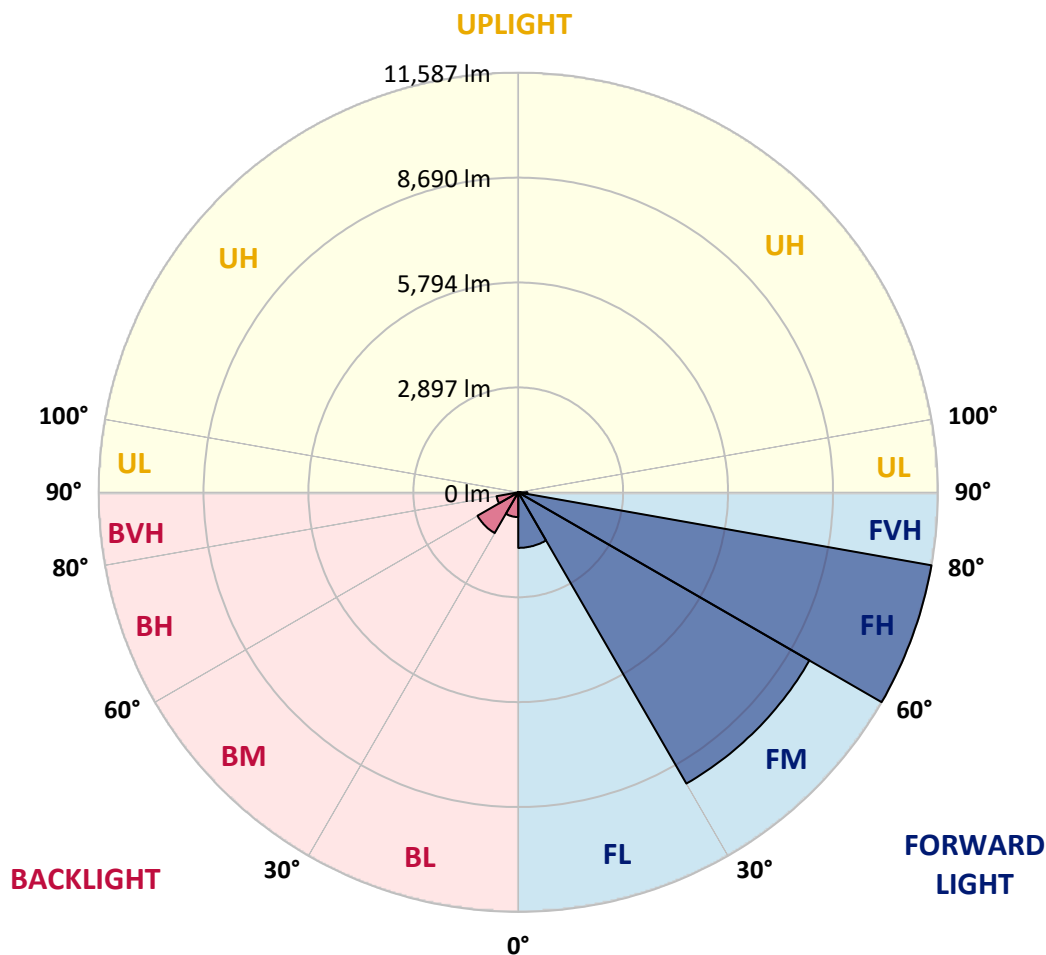
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1534.4	6.1			
FM	(30°-60°)	9285.7	36.8			
FH	(60°-80°)	11587.2	45.9			G4/12000
FVH	(80°-90°)	253.2	1.0			G3/500
BL	(0°-30°)	683.0	2.7	B2/1000		
BM	(30°-60°)	1298.7	5.1	B2/2500		
BH	(60°-80°)	607.7	2.4	B2/1000		G2/1000
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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2
2.5°	2810.8	2807.2	2790.6	2783.5	2743.3	2719.6	2710.1	2680.5	2637.9	2595.3	2547.9
5°	3130.4	3129.2	3098.5	3068.9	2993.1	2922.1	2909.0	2840.4	2744.5	2654.5	2564.5
7.5°	3457.2	3441.8	3411.0	3354.2	3244.1	3130.4	3119.8	3022.7	2886.5	2756.3	2627.2
10°	3734.3	3724.8	3684.5	3598.1	3469.0	3340.0	3327.0	3207.4	3053.5	2893.6	2729.1
12.5°	3949.7	3942.6	3889.4	3781.6	3644.3	3510.5	3492.7	3386.2	3221.6	3042.8	2848.6
15°	4081.2	4077.6	4012.5	3897.6	3762.7	3646.6	3631.3	3537.7	3385.0	3197.9	2978.9
17.5°	4111.9	4113.1	4045.6	3929.6	3818.3	3735.4	3723.6	3652.6	3524.7	3338.8	3109.1
20°	4043.3	4057.5	3997.1	3896.5	3827.8	3784.0	3774.5	3731.9	3624.1	3448.9	3213.3
22.5°	3946.2	3953.3	3911.9	3844.4	3816.0	3824.2	3819.5	3795.8	3704.7	3543.6	3316.3
25°	3887.0	3887.0	3862.1	3805.3	3824.2	3875.2	3876.3	3871.6	3799.4	3659.7	3441.8
27.5°	3884.6	3877.5	3849.1	3806.5	3858.6	3936.7	3941.5	3973.4	3928.4	3800.6	3598.1
30°	3979.3	3971.1	3910.7	3855.0	3921.3	4005.4	4017.2	4087.1	4064.6	3953.3	3772.1
32.5°	4200.7	4171.1	4037.4	3946.2	3995.9	4096.6	4111.9	4223.2	4258.8	4141.5	3940.3
35°	4503.8	4410.3	4217.3	4119.1	4123.8	4229.2	4243.4	4406.8	4512.1	4314.4	4070.5
37.5°	4921.8	4875.6	4561.9	4299.0	4320.3	4480.2	4521.6	4699.2	4669.6	4409.1	4218.5
40°	5838.2	5766.0	5432.1	4803.4	4508.6	4683.8	4696.8	4791.5	4793.9	4623.4	4526.3
42.5°	7086.1	7056.5	6704.9	5718.6	4879.2	4820.0	4843.6	5003.5	5182.3	5075.7	5071.0
45°	8467.8	8452.4	8079.4	6933.4	5628.6	5266.3	5295.9	5510.2	5852.4	5876.1	6026.4
47.5°	9579.5	9572.4	9358.1	8289.0	6775.9	6022.9	6032.4	6259.7	6861.1	7158.3	7398.7
50°	10593.0	10627.4	10458.1	9756.0	8338.7	7208.0	7185.5	7337.1	8303.2	8789.8	9088.2
52.5°	12002.0	12050.5	11575.7	11124.6	9978.5	8678.5	8660.8	8819.4	10036.6	10401.2	10454.5
55°	13246.3	13163.4	12788.1	12657.9	11978.3	10494.8	10490.0	10629.7	11713.1	11868.2	11966.4
57.5°	13795.7	13763.7	13944.9	14243.2	14072.7	12641.3	12630.7	12524.1	13213.2	13229.7	13531.7
60°	14142.6	14181.7	14736.9	15656.9	16081.9	14951.2	14882.6	14232.6	14645.8	14609.1	14932.3
62.5°	13882.1	13959.1	14958.3	16491.6	17585.6	16967.6	16870.5	15797.8	15870.0	15743.3	16044.1
65°	12499.2	12618.8	14256.3	16334.1	18331.5	18543.4	18445.2	17179.5	16842.1	16633.7	16466.7
67.5°	10149.0	10220.1	11929.7	14964.3	17995.2	19483.5	19463.4	18390.7	17576.1	16483.3	15188.0
69°	8387.3	8457.1	10102.9	13522.2	17255.3	19684.8	19723.9	18779.0	17436.4	15569.3	13457.1
70°	7103.9	7178.4	8711.7	12286.1	16396.9	19591.2	19661.1	18742.3	17036.2	14510.8	11938.0
72.5°	3726.0	3789.9	5363.4	8464.2	13367.1	17989.3	18201.3	17158.2	14441.0	10538.6	7058.9
75°	1171.0	1207.7	2094.5	4424.5	9152.1	13987.5	14036.0	13459.4	10254.4	5796.7	2939.8
77.5°	446.4	435.7	697.4	1630.3	4627.0	8807.6	9104.8	8411.0	5381.2	2049.5	678.4
80°	240.3	241.5	362.3	674.9	1979.6	4526.3	4777.3	4076.4	1912.1	639.3	156.3
82.5°	104.2	108.9	203.6	357.6	909.3	1669.4	1794.9	1494.2	730.5	429.8	58.0
85°	22.5	24.9	98.3	194.2	370.6	468.9	491.3	484.2	465.3	333.9	22.5
87.5°	0.0	0.0	43.8	69.9	93.5	106.6	93.5	121.9	256.9	225.0	11.8
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°	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2	2530.2
2.5°	2532.5	2511.2	2474.5	2434.3	2405.8	2376.2	2352.6	2341.9	2330.1	2321.8	2332.4
5°	2527.8	2486.3	2415.3	2346.6	2296.9	2256.7	2223.5	2210.5	2197.5	2188.0	2186.8
7.5°	2569.2	2511.2	2402.3	2301.6	2224.7	2170.2	2125.2	2106.3	2090.9	2083.8	2077.9
10°	2648.6	2574.0	2428.3	2296.9	2197.5	2105.1	2008.0	1933.4	1884.9	1862.4	1854.1
12.5°	2751.6	2658.0	2478.1	2321.8	2177.3	1999.7	1793.7	1616.1	1501.3	1463.4	1440.9
15°	2872.3	2756.3	2543.2	2353.7	2103.9	1779.5	1430.2	1198.2	1091.6	1070.3	1046.6
17.5°	2988.4	2860.5	2621.3	2359.7	1942.9	1422.0	1047.8	890.3	848.9	863.1	866.7
20°	3090.2	2963.5	2698.3	2307.6	1650.5	1066.8	811.0	772.0	787.3	814.6	819.3
22.5°	3193.2	3062.9	2769.3	2170.2	1276.3	809.8	730.5	740.0	755.4	782.6	787.3
25°	3318.7	3183.7	2835.6	1918.0	957.8	689.1	693.8	708.0	723.4	748.3	750.6
27.5°	3463.1	3336.4	2879.4	1590.1	710.4	633.4	648.8	670.1	685.5	709.2	713.9
30°	3654.9	3537.7	2893.6	1250.3	595.5	583.7	590.8	616.9	639.3	660.7	664.2
32.5°	3834.9	3736.6	2846.3	943.6	551.7	537.5	537.5	552.9	579.0	599.1	603.8
35°	4000.7	3936.7	2694.7	690.3	518.6	494.9	483.1	483.1	499.6	516.2	520.9
37.5°	4219.7	4217.3	2449.6	550.5	486.6	459.4	434.5	415.6	409.7	413.2	415.6
40°	4595.0	4598.6	2130.0	493.7	459.4	422.7	384.8	350.5	318.5	307.8	306.6
42.5°	5181.1	5127.8	1794.9	466.5	435.7	384.8	328.0	281.8	232.1	216.7	215.5
45°	6111.7	5795.6	1439.7	441.6	410.8	342.2	271.1	208.4	168.1	156.3	156.3
47.5°	7467.3	6672.9	1115.3	414.4	377.7	293.6	204.8	150.4	123.1	117.2	118.4
50°	8869.2	7532.5	854.8	380.1	337.4	242.7	151.5	108.9	93.5	93.5	94.7
52.5°	10112.3	8162.3	666.6	343.4	287.7	190.6	114.8	85.2	78.1	77.0	78.1
55°	11276.2	8568.4	510.3	300.7	228.5	142.1	87.6	69.9	65.1	62.8	61.6
57.5°	12398.6	8769.7	382.4	242.7	165.8	103.0	69.9	59.2	54.5	50.9	49.7
60°	13145.7	8606.3	262.8	178.8	114.8	74.6	58.0	50.9	45.0	41.4	40.3
62.5°	13567.2	8160.0	169.3	129.1	81.7	55.6	46.2	42.6	34.3	30.8	30.8
65°	13396.7	7423.5	118.4	92.4	59.2	41.4	34.3	34.3	24.9	20.1	18.9
67.5°	11871.7	6271.5	90.0	68.7	42.6	30.8	26.0	29.6	15.4	9.5	9.5
69°	10214.2	5197.7	77.0	56.8	35.5	24.9	22.5	27.2	10.7	7.1	5.9
70°	8877.4	4483.7	69.9	49.7	29.6	21.3	20.1	26.0	10.7	5.9	4.7
72.5°	5311.3	2500.6	53.3	35.5	18.9	16.6	16.6	29.6	10.7	5.9	4.7
75°	2146.5	880.9	39.1	24.9	14.2	14.2	20.1	37.9	9.5	4.7	3.6
77.5°	486.6	193.0	22.5	15.4	9.5	14.2	23.7	29.6	5.9	2.4	0.0
80°	118.4	47.4	14.2	9.5	5.9	10.7	17.8	16.6	1.2	0.0	0.0
82.5°	39.1	16.6	5.9	4.7	1.2	3.6	8.3	4.7	0.0	0.0	0.0
85°	16.6	9.5	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.7	3.6	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)