

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: P322969

Luminaire Tested: **GAN-SA5C-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322969
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-SA5C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 25622 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

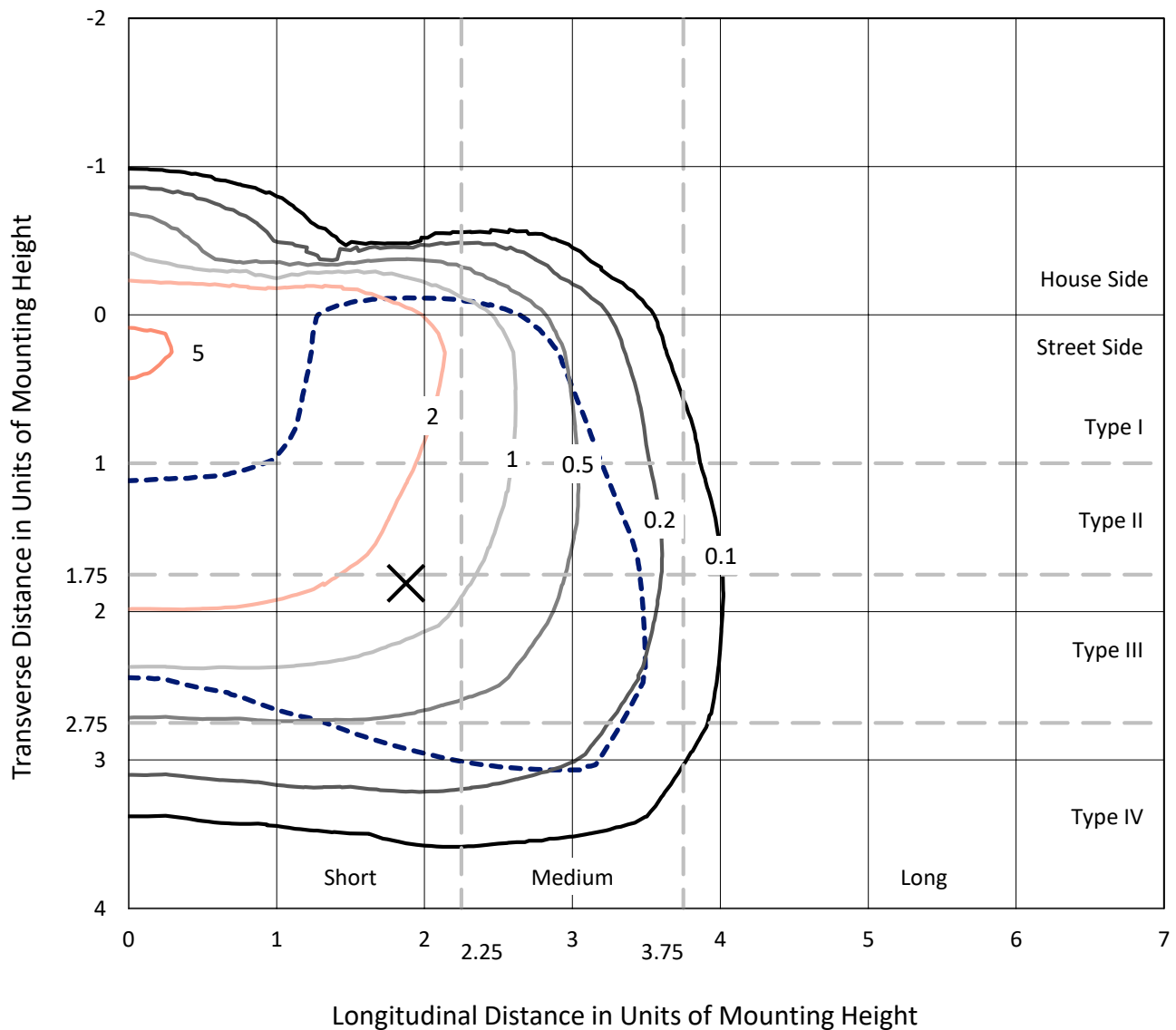
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

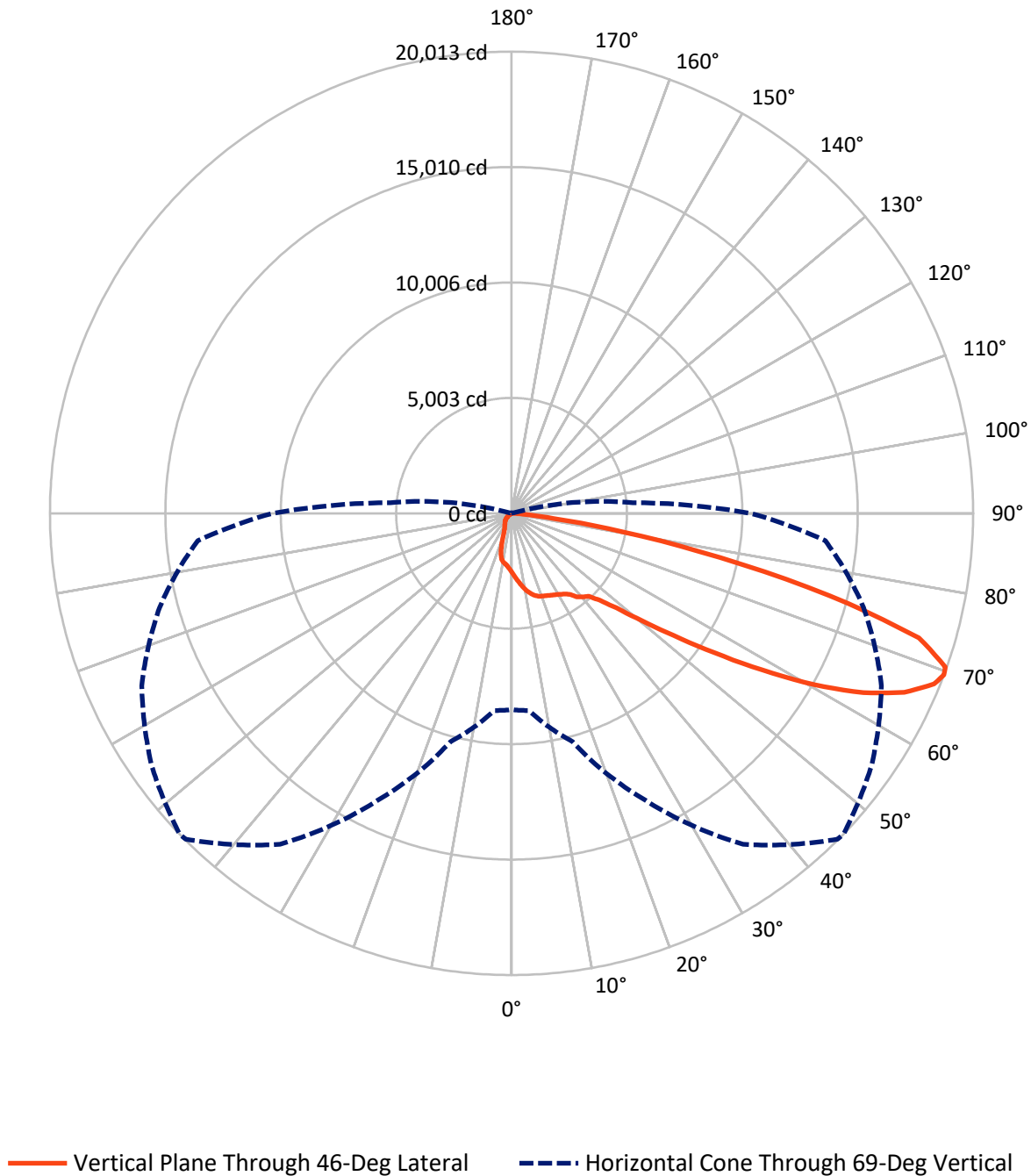
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2629.5	0.0	2629.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22992.5	0.0	22992.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	25622.0	0.0	25622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.0
10°-20°	775.2	3.0
20°-30°	1219.1	4.8
30°-40°	1748.3	6.8
40°-50°	3021.7	11.8
50°-60°	5969.6	23.3
60°-70°	8343.0	32.6
70°-80°	4030.6	15.7
80°-90°	259.1	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°	25622.0	100.0
0°-180°	25622.0	100.0

Coefficient of Utilization



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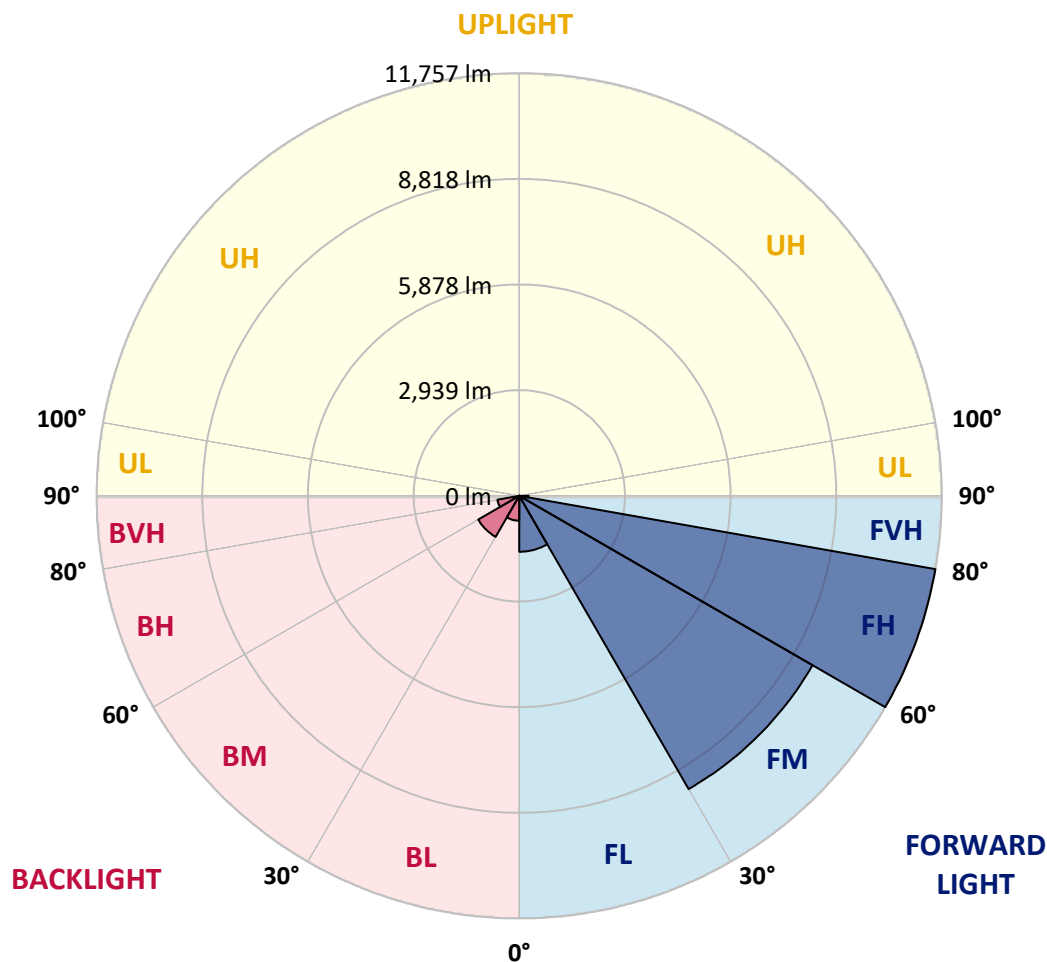
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1556.8	6.1			
FM	(30°-60°)	9421.8	36.8			
FH	(60°-80°)	11757.0	45.9			G4/12000
FVH	(80°-90°)	256.9	1.0			G3/500
BL	(0°-30°)	693.0	2.7	B2/1000		
BM	(30°-60°)	1317.7	5.1	B2/2500		
BH	(60°-80°)	616.6	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°	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2
2.5°	2851.9	2848.3	2831.5	2824.3	2783.5	2759.4	2749.8	2719.8	2676.5	2633.3	2585.2
5°	3176.3	3175.1	3143.9	3113.8	3036.9	2964.9	2951.7	2882.0	2784.7	2693.4	2602.1
7.5°	3507.9	3492.2	3461.0	3403.3	3291.6	3176.3	3165.5	3067.0	2928.8	2796.7	2665.7
10°	3789.0	3779.4	3738.5	3650.8	3519.9	3388.9	3375.7	3254.4	3098.2	2936.0	2769.1
12.5°	4007.6	4000.4	3946.3	3837.0	3697.7	3561.9	3543.9	3435.8	3268.8	3087.4	2890.4
15°	4141.0	4137.4	4071.3	3954.8	3817.8	3700.1	3684.5	3589.6	3434.6	3244.8	3022.5
17.5°	4172.2	4173.4	4104.9	3987.2	3874.3	3790.2	3778.2	3706.1	3576.3	3387.7	3154.7
20°	4102.5	4116.9	4055.7	3953.6	3883.9	3839.4	3829.8	3786.6	3677.3	3499.5	3260.4
22.5°	4004.0	4011.2	3969.2	3900.7	3871.9	3880.3	3875.5	3851.4	3758.9	3595.6	3364.9
25°	3943.9	3943.9	3918.7	3861.1	3880.3	3931.9	3933.1	3928.3	3855.0	3713.3	3492.2
27.5°	3941.5	3934.3	3905.5	3862.3	3915.1	3994.4	3999.2	4031.6	3986.0	3856.2	3650.8
30°	4037.6	4029.2	3968.0	3911.5	3978.8	4064.1	4076.1	4147.0	4124.1	4011.2	3827.4
32.5°	4262.3	4232.3	4096.5	4004.0	4054.5	4156.6	4172.2	4285.1	4321.2	4202.2	3998.0
35°	4569.8	4474.9	4279.1	4179.4	4184.2	4291.1	4305.5	4471.3	4578.2	4377.6	4130.2
37.5°	4993.9	4947.1	4628.7	4362.0	4383.6	4545.8	4587.9	4768.1	4738.0	4473.7	4280.3
40°	5923.7	5850.4	5511.7	4873.8	4574.6	4752.4	4765.7	4861.8	4864.2	4691.2	4592.7
42.5°	7189.9	7159.9	6803.1	5802.4	4950.7	4890.6	4914.6	5076.8	5258.2	5150.1	5145.3
45°	8591.9	8576.2	8197.8	7035.0	5711.1	5343.5	5373.5	5591.0	5938.1	5962.2	6114.7
47.5°	9719.9	9712.7	9495.3	8410.5	6875.2	6111.1	6120.7	6351.4	6961.7	7263.2	7507.1
50°	10748.2	10783.1	10611.3	9898.9	8460.9	7313.7	7290.8	7444.6	8424.9	8918.6	9221.4
52.5°	12177.8	12227.1	11745.3	11287.6	10124.8	8805.7	8787.7	8948.7	10183.6	10553.6	10607.7
55°	13440.4	13356.3	12975.5	12843.4	12153.8	10648.5	10643.7	10785.5	11884.7	12042.1	12141.8
57.5°	13997.8	13965.4	14149.2	14451.9	14278.9	12826.5	12815.7	12707.6	13406.8	13423.6	13729.9
60°	14349.8	14389.5	14952.9	15886.3	16317.6	15170.3	15100.6	14441.1	14860.4	14823.1	15151.1
62.5°	14085.5	14163.6	15177.5	16733.2	17843.3	17216.2	17117.7	16029.3	16102.5	15974.0	16279.1
65°	12682.4	12803.7	14465.1	16573.5	18600.1	18815.1	18715.4	17431.2	17088.8	16877.4	16708.0
67.5°	10297.7	10369.8	12104.5	15183.5	18258.9	19769.0	19748.6	18660.2	17833.6	16724.8	15410.6
69°	8510.2	8581.1	10250.9	13720.3	17508.1	19973.2	20012.9	19054.2	17691.9	15797.4	13654.2
70°	7207.9	7283.6	8839.3	12466.1	16637.1	19878.3	19949.2	19017.0	17285.8	14723.4	12112.9
72.5°	3780.6	3845.4	5442.0	8588.3	13562.9	18252.9	18467.9	17409.6	14652.5	10693.0	7162.3
75°	1188.1	1225.4	2125.1	4489.3	9286.2	14192.4	14241.7	13656.6	10404.7	5881.7	2982.9
77.5°	452.9	442.1	707.6	1654.2	4694.8	8936.6	9238.2	8534.2	5460.0	2079.5	688.4
80°	243.9	245.1	367.6	684.8	2008.6	4592.7	4847.3	4136.2	1940.1	648.7	158.6
82.5°	105.7	110.5	206.6	362.8	922.6	1693.9	1821.2	1516.1	741.2	436.1	58.9
85°	22.8	25.2	99.7	197.0	376.0	475.7	498.5	491.3	472.1	338.8	22.8
87.5°	0.0	0.0	44.4	70.9	94.9	108.1	94.9	123.7	260.7	228.3	12.0
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°	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2	2567.2
2.5°	2569.6	2548.0	2510.8	2469.9	2441.1	2411.1	2387.0	2376.2	2364.2	2355.8	2366.6
5°	2564.8	2522.8	2450.7	2381.0	2330.6	2289.7	2256.1	2242.9	2229.7	2220.0	2218.8
7.5°	2606.9	2548.0	2437.5	2335.4	2257.3	2202.0	2156.4	2137.2	2121.5	2114.3	2108.3
10°	2687.4	2611.7	2463.9	2330.6	2229.7	2136.0	2037.4	1961.8	1912.5	1889.7	1881.3
12.5°	2791.9	2697.0	2514.4	2355.8	2209.2	2029.0	1820.0	1639.8	1523.3	1484.8	1462.0
15°	2914.4	2796.7	2580.4	2388.2	2134.8	1805.6	1451.2	1215.7	1107.6	1086.0	1062.0
17.5°	3032.1	2902.4	2659.7	2394.2	1971.4	1442.8	1063.2	903.4	861.3	875.8	879.4
20°	3135.5	3006.9	2737.8	2341.4	1674.6	1082.4	822.9	783.3	798.9	826.5	831.3
22.5°	3240.0	3107.8	2809.9	2202.0	1295.0	821.7	741.2	750.8	766.4	794.1	798.9
25°	3367.3	3230.4	2877.2	1946.1	971.9	699.2	704.0	718.4	734.0	759.2	761.6
27.5°	3513.9	3385.3	2921.6	1613.4	720.8	642.7	658.3	679.9	695.6	719.6	724.4
30°	3708.5	3589.6	2936.0	1268.6	604.3	592.3	599.5	625.9	648.7	670.3	673.9
32.5°	3891.1	3791.4	2888.0	957.5	559.8	545.4	545.4	561.0	587.4	607.9	612.7
35°	4059.3	3994.4	2734.2	700.4	526.2	502.2	490.1	490.1	507.0	523.8	528.6
37.5°	4281.5	4279.1	2485.5	558.6	493.7	466.1	440.9	421.7	415.7	419.3	421.7
40°	4662.3	4665.9	2161.2	501.0	466.1	428.9	390.4	355.6	323.2	312.3	311.1
42.5°	5257.0	5202.9	1821.2	473.3	442.1	390.4	332.8	285.9	235.5	219.8	218.6
45°	6201.2	5880.5	1460.8	448.1	416.9	347.2	275.1	211.4	170.6	158.6	158.6
47.5°	7576.7	6770.7	1131.6	420.5	383.2	297.9	207.8	152.6	124.9	118.9	120.1
50°	8999.1	7642.8	867.4	385.6	342.4	246.3	153.8	110.5	94.9	94.9	96.1
52.5°	10260.5	8281.9	676.3	348.4	291.9	193.4	116.5	86.5	79.3	78.1	79.3
55°	11441.4	8694.0	517.8	305.1	231.9	144.2	88.9	70.9	66.1	63.7	62.5
57.5°	12580.3	8898.2	388.0	246.3	168.2	104.5	70.9	60.1	55.3	51.7	50.5
60°	13338.3	8732.4	266.7	181.4	116.5	75.7	58.9	51.7	45.7	42.0	40.8
62.5°	13766.0	8279.5	171.8	130.9	82.9	56.5	46.9	43.2	34.8	31.2	31.2
65°	13593.0	7532.3	120.1	93.7	60.1	42.0	34.8	34.8	25.2	20.4	19.2
67.5°	12045.7	6363.4	91.3	69.7	43.2	31.2	26.4	30.0	15.6	9.6	9.6
69°	10363.8	5273.8	78.1	57.7	36.0	25.2	22.8	27.6	10.8	7.2	6.0
70°	9007.5	4549.4	70.9	50.5	30.0	21.6	20.4	26.4	10.8	6.0	4.8
72.5°	5389.1	2537.2	54.1	36.0	19.2	16.8	16.8	30.0	10.8	6.0	4.8
75°	2178.0	893.8	39.6	25.2	14.4	14.4	20.4	38.4	9.6	4.8	3.6
77.5°	493.7	195.8	22.8	15.6	9.6	14.4	24.0	30.0	6.0	2.4	0.0
80°	120.1	48.1	14.4	9.6	6.0	10.8	18.0	16.8	1.2	0.0	0.0
82.5°	39.6	16.8	6.0	4.8	1.2	3.6	8.4	4.8	0.0	0.0	0.0
85°	16.8	9.6	2.4	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.8	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)