

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: P323991

Luminaire Tested: **GAN-SA7A-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323991
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-SA7A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 21259 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

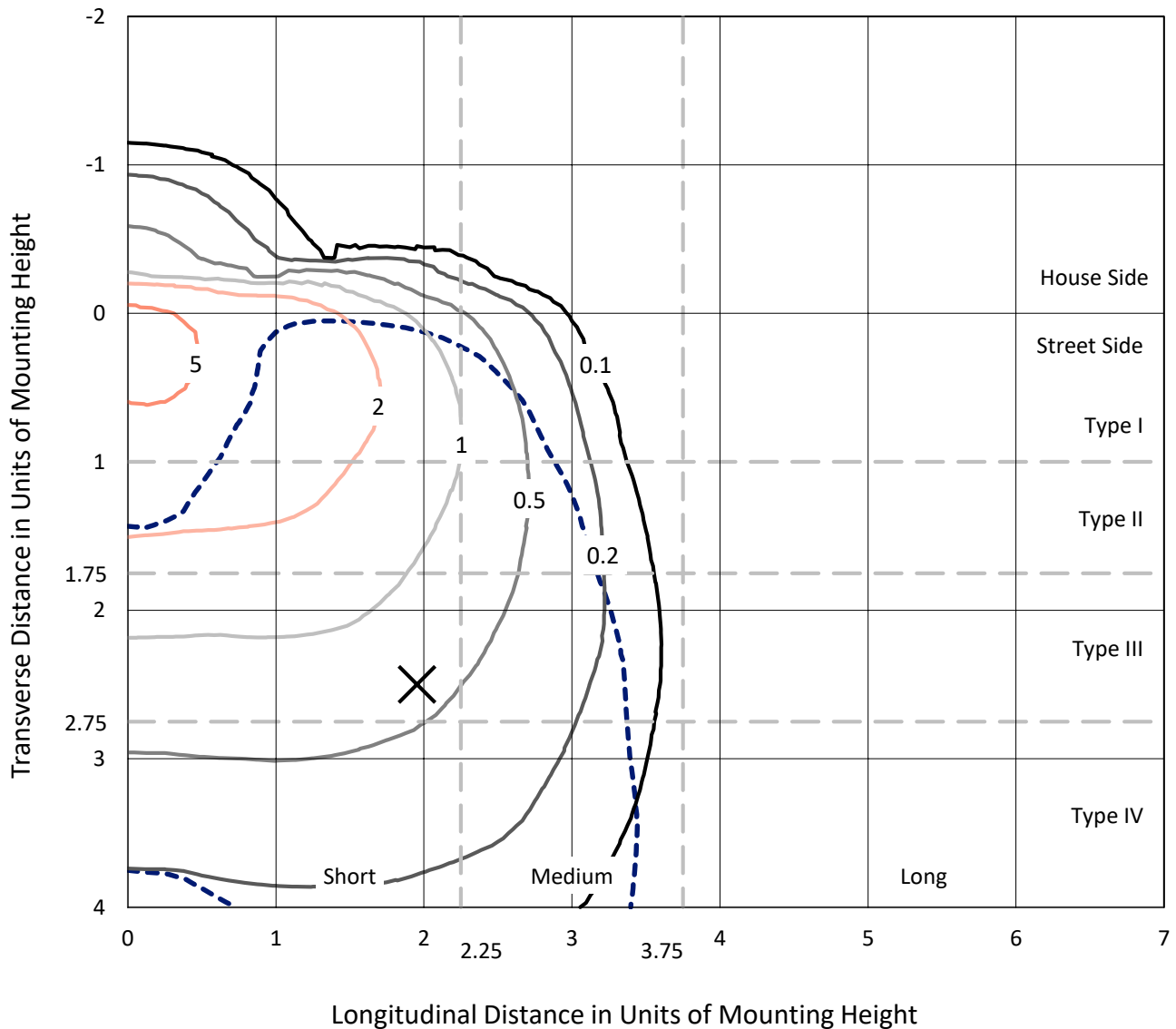
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

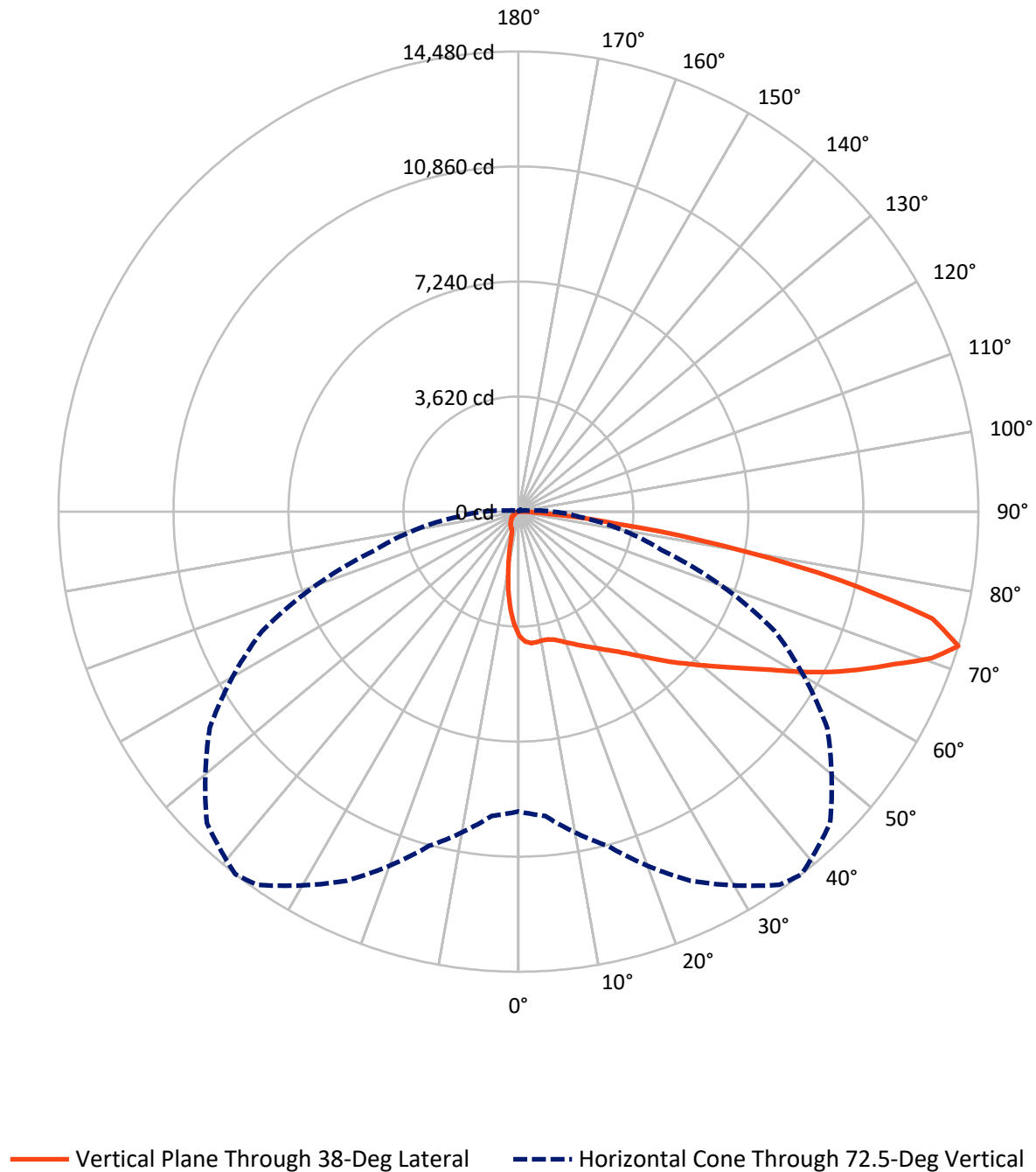
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	1789.0	0.0	1789.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19470.0	0.0	19470.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	21259.0	0.0	21259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	1.6
10°-20°	814.7	3.8
20°-30°	1295.7	6.1
30°-40°	1947.9	9.2
40°-50°	2971.7	14.0
50°-60°	4200.0	19.8
60°-70°	5268.2	24.8
70°-80°	3939.2	18.5
80°-90°	488.4	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°	21259.0	100.0
0°-180°	21259.0	100.0

Coefficient of Utilization



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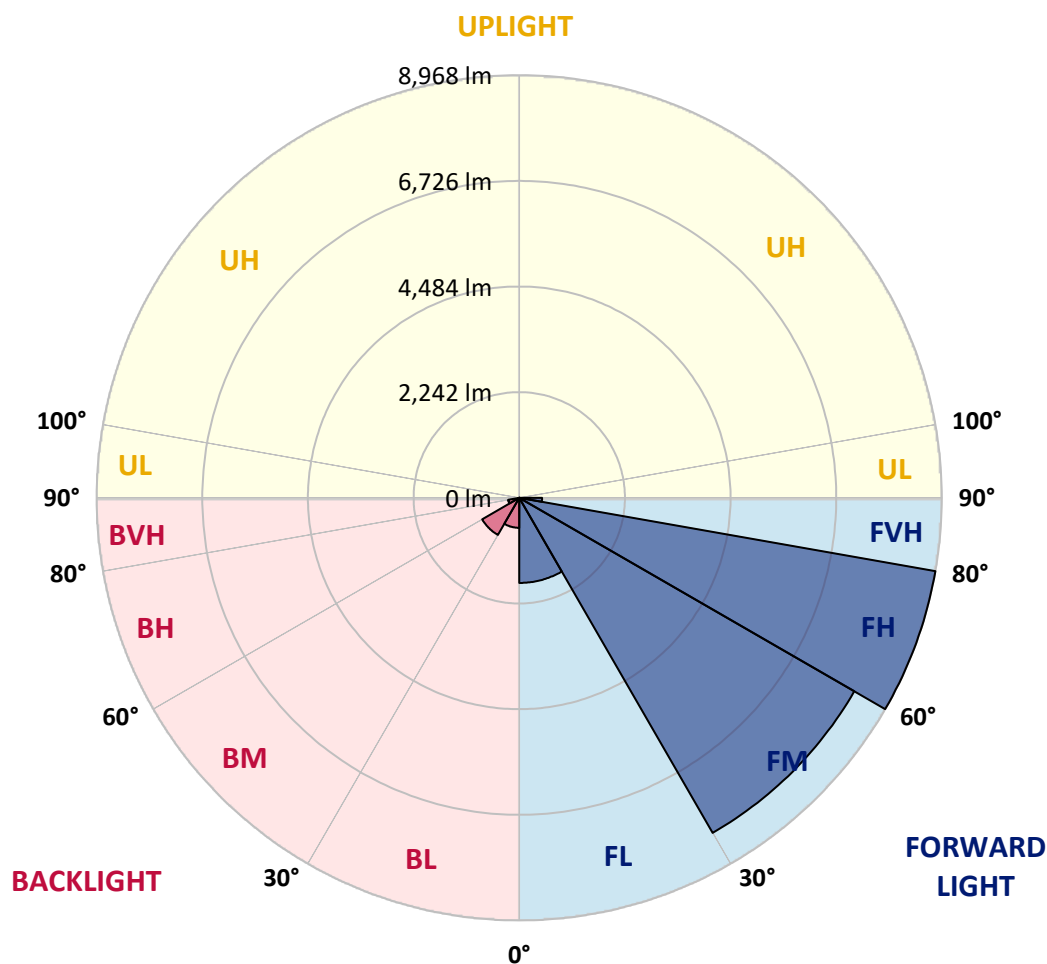
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1806.5	8.5			
FM	(30°-60°)	8211.2	38.6			
FH	(60°-80°)	8968.4	42.2			G4/12000
FVH	(80°-90°)	483.9	2.3			G3/500
BL	(0°-30°)	637.0	3.0	B2/1000		
BM	(30°-60°)	908.5	4.3	B1/1000		
BH	(60°-80°)	239.0	1.1	B1/500		G1/500
BVH	(80°-90°)	4.6	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°	38°	45°	55°	65°	75°	85°
0°	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	4149.6	4150.5	4140.8	4124.9	4104.6	4094.0	4076.3	4048.1	4018.1	3964.2	3905.9
5°	4234.4	4234.4	4222.0	4200.8	4168.1	4158.4	4124.9	4079.9	4018.1	3930.6	3832.6
7.5°	4225.5	4227.3	4210.5	4188.5	4155.8	4147.0	4106.3	4056.0	3979.2	3873.3	3747.9
10°	4179.6	4184.0	4170.8	4160.2	4130.2	4120.5	4082.5	4032.2	3955.4	3842.4	3698.4
12.5°	4132.8	4137.2	4141.7	4151.4	4132.8	4129.3	4099.3	4056.9	3983.6	3866.2	3703.7
15°	4102.8	4111.6	4143.4	4181.4	4185.8	4182.3	4162.9	4123.1	4049.0	3927.1	3741.7
17.5°	4102.8	4116.9	4183.2	4255.6	4281.2	4283.8	4267.0	4211.4	4123.1	3992.5	3777.0
20°	4137.2	4156.7	4260.0	4362.4	4404.8	4404.8	4372.1	4294.4	4191.1	4051.6	3800.9
22.5°	4225.5	4251.1	4380.9	4499.2	4544.3	4534.5	4490.4	4377.4	4261.7	4118.7	3830.9
25°	4399.5	4418.9	4554.0	4673.2	4700.5	4678.5	4622.8	4478.0	4351.8	4209.6	3885.6
27.5°	4623.7	4626.4	4765.9	4866.5	4849.7	4834.7	4765.0	4604.3	4481.6	4339.4	3980.1
30°	4870.1	4870.1	4992.8	5069.6	5018.4	5006.0	4936.3	4757.0	4647.6	4516.0	4114.3
32.5°	5108.4	5119.0	5218.8	5267.4	5210.0	5197.6	5129.6	4950.4	4868.3	4785.3	4323.5
35°	5338.9	5346.8	5441.3	5467.8	5413.0	5416.6	5368.0	5216.1	5185.2	5174.6	4638.7
37.5°	5562.2	5564.0	5660.2	5677.0	5649.6	5679.7	5684.1	5549.9	5607.3	5692.9	5082.8
40°	5766.2	5768.0	5863.3	5906.6	5953.4	5992.2	6026.6	5955.1	6145.0	6343.6	5611.7
42.5°	5929.5	5948.1	6069.0	6151.1	6274.7	6348.9	6442.5	6439.0	6785.0	7083.5	6250.9
45°	6073.4	6105.2	6273.9	6417.8	6629.7	6748.0	6894.5	7009.3	7505.5	7907.2	6898.1
47.5°	6263.3	6293.3	6485.7	6721.5	7004.0	7159.4	7402.2	7650.3	8297.4	8715.9	7530.2
50°	6530.8	6517.5	6707.4	7045.5	7408.4	7612.3	7958.4	8330.1	9083.2	9420.5	7901.9
52.5°	6816.0	6810.7	6951.0	7397.8	7885.1	8123.5	8580.9	9032.9	9834.6	9906.1	8072.3
55°	7169.1	7131.1	7249.5	7799.5	8451.1	8707.1	9245.7	9728.6	10433.2	10179.8	8158.0
57.5°	7539.0	7476.4	7589.4	8247.1	9089.4	9392.2	9982.0	10406.7	10831.4	10367.0	8157.1
60°	7921.3	7847.2	7981.4	8806.9	9882.2	10232.8	10780.2	10864.9	11203.1	10461.4	8097.0
62.5°	8240.9	8196.8	8396.3	9405.5	10767.8	11112.1	11383.2	11281.6	11516.5	10534.7	7956.7
65°	8579.1	8581.7	8904.0	10103.9	11709.0	11941.2	11964.1	11822.0	11778.7	10519.7	7481.7
67.5°	9036.4	9078.8	9616.5	11052.1	12624.5	12803.7	12802.0	12407.3	11970.3	9922.9	6428.4
70°	9520.3	9620.0	10437.6	12137.2	13624.0	13805.8	13712.2	12779.9	11271.0	8023.8	4549.6
72.5°	9439.0	9612.1	10894.0	12821.4	14341.7	14480.4	13872.0	11864.3	8908.4	4663.5	1937.1
75°	7282.1	7482.5	9989.1	12143.3	13588.6	13464.2	11919.1	9232.4	4868.3	1301.4	436.2
77.5°	3846.8	3953.6	6598.8	9251.0	10595.6	10335.2	8396.3	5121.7	1484.1	322.3	196.0
80°	2014.8	2039.5	2875.6	5248.8	6539.6	6541.4	4976.0	2249.6	611.8	165.1	131.6
82.5°	1078.9	1100.1	1519.5	2425.3	3426.5	3106.0	1905.3	1237.8	355.8	93.6	126.3
85°	259.6	264.0	861.7	1108.0	1347.3	962.4	565.9	1039.2	96.2	54.7	102.4
87.5°	99.8	101.5	319.6	479.4	343.4	222.5	264.9	387.6	12.4	21.2	15.9
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°	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5	3909.5
2.5°	3870.6	3847.7	3791.2	3719.6	3656.1	3610.2	3541.3	3496.3	3466.2	3465.4	3453.9
5°	3772.6	3725.8	3604.0	3459.2	3327.6	3209.3	3069.8	2959.5	2877.4	2864.1	2835.9
7.5°	3667.5	3590.7	3403.6	3177.5	2956.8	2732.6	2472.1	2310.5	2171.9	2105.7	2098.6
10°	3603.1	3495.4	3229.6	2903.0	2556.9	2192.2	1851.4	1615.7	1445.3	1396.7	1360.5
12.5°	3589.9	3447.7	3095.4	2645.2	2150.7	1668.7	1291.7	1040.9	905.0	861.7	850.2
15°	3603.1	3425.6	2982.4	2390.0	1739.3	1184.0	867.0	721.3	670.1	657.8	656.9
17.5°	3611.0	3399.1	2854.4	2106.6	1340.2	845.8	663.9	621.6	613.6	612.7	614.5
20°	3610.2	3358.5	2701.7	1790.5	996.8	664.8	600.4	591.5	589.8	590.7	589.8
22.5°	3604.0	3310.9	2533.9	1464.7	753.1	594.2	573.0	567.7	566.8	566.8	566.8
25°	3615.5	3272.9	2349.4	1153.1	620.7	561.5	548.3	543.9	543.0	543.0	541.2
27.5°	3657.0	3251.7	2147.2	887.3	560.6	532.4	521.8	520.9	518.3	517.4	519.1
30°	3724.1	3251.7	1925.6	690.4	524.4	502.4	494.4	492.7	491.8	490.9	491.8
32.5°	3842.4	3276.4	1683.7	573.9	490.0	468.8	463.5	466.2	463.5	463.5	463.5
35°	4056.0	3350.6	1430.3	500.6	453.8	436.2	430.9	434.4	432.6	432.6	431.7
37.5°	4367.7	3488.3	1175.1	456.5	422.0	403.5	396.4	401.7	400.0	400.0	399.1
40°	4747.3	3688.7	932.3	422.9	391.1	371.7	365.5	368.2	363.8	363.8	365.5
42.5°	5216.1	3943.0	720.4	390.2	360.2	341.7	338.1	335.5	327.6	323.1	324.0
45°	5737.1	4207.9	561.5	358.5	331.1	316.1	310.8	303.7	290.5	281.6	282.5
47.5°	6202.3	4411.8	456.5	327.6	304.6	293.1	285.2	271.9	252.5	241.9	242.8
50°	6446.9	4442.7	388.5	296.7	279.9	268.4	256.9	236.6	213.7	202.2	201.3
52.5°	6509.6	4297.9	338.1	268.4	255.2	241.9	226.9	199.5	173.9	161.6	159.8
55°	6532.5	4077.2	293.1	241.9	228.7	213.7	194.2	163.3	139.5	127.1	126.3
57.5°	6456.6	3747.9	257.8	218.1	202.2	183.6	159.8	130.7	107.7	98.0	98.0
60°	6288.0	3302.0	230.4	192.5	174.8	153.6	128.9	101.5	80.3	72.4	72.4
62.5°	5951.6	2724.6	204.8	166.0	149.2	127.1	104.2	76.8	56.5	52.1	53.0
65°	5316.8	2066.9	179.2	142.1	127.1	105.1	81.2	54.7	38.0	38.0	39.7
67.5°	4335.9	1435.6	152.7	121.0	109.5	85.6	61.8	38.0	26.5	30.0	33.6
70°	2870.3	805.2	130.7	99.8	93.6	68.0	45.9	25.6	21.2	28.3	34.4
72.5°	1083.3	313.4	109.5	80.3	81.2	52.1	32.7	19.4	19.4	30.9	40.6
75°	302.0	153.6	78.6	59.2	63.6	38.0	23.8	16.8	18.5	35.3	47.7
77.5°	177.5	113.0	51.2	34.4	43.3	26.5	15.9	13.2	15.9	30.0	45.9
80°	143.0	60.0	30.0	17.7	23.8	15.0	10.6	7.9	4.4	11.5	23.8
82.5°	143.0	36.2	14.1	12.4	12.4	7.9	5.3	3.5	0.9	0.0	6.2
85°	96.2	15.0	8.8	7.9	6.2	2.6	1.8	0.9	0.0	0.0	0.0
87.5°	15.9	6.2	3.5	1.8	0.9	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)