

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: P323759

Luminaire Tested: **GAN-SA5B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323759
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-SA5B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 19385 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

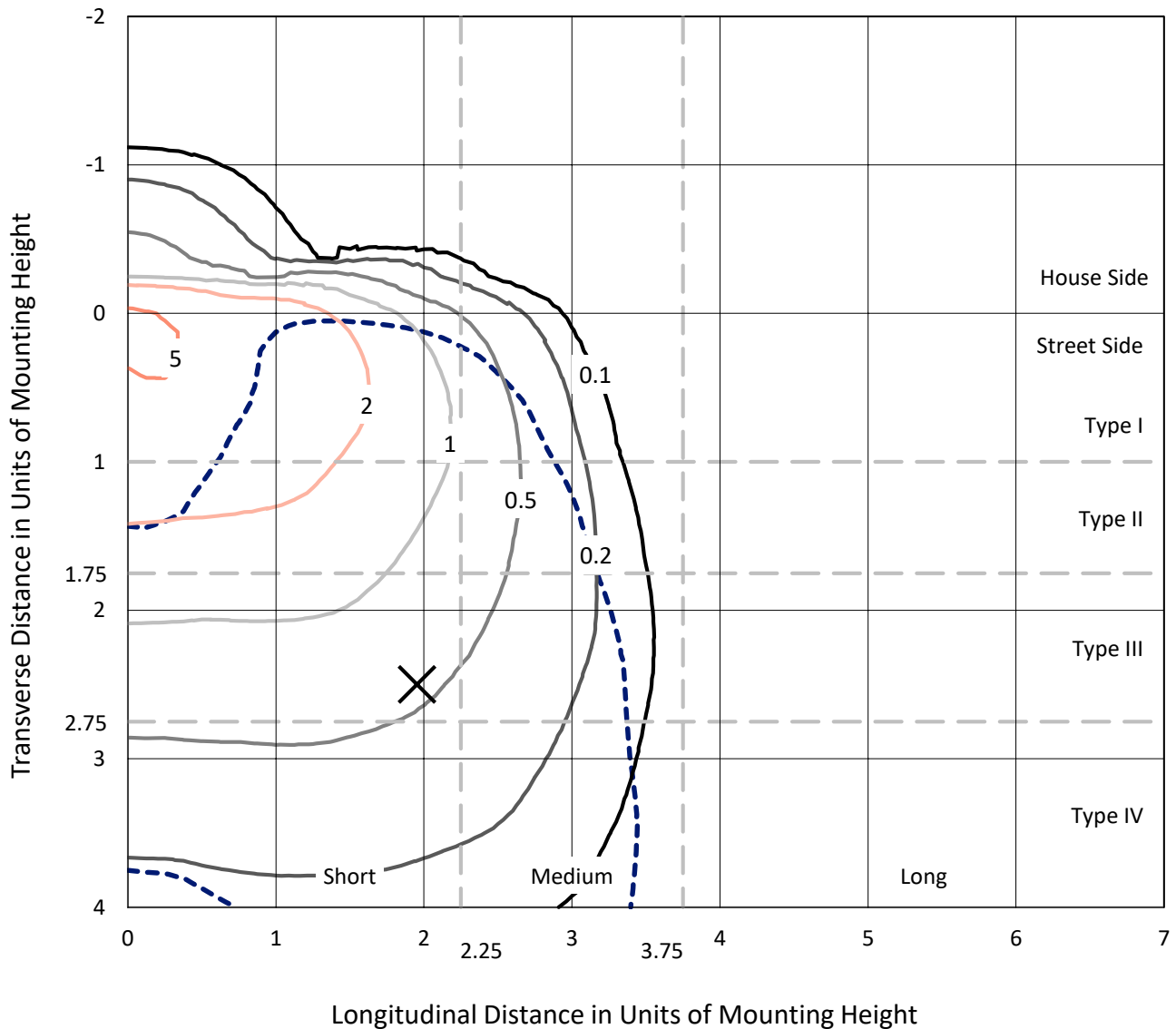
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

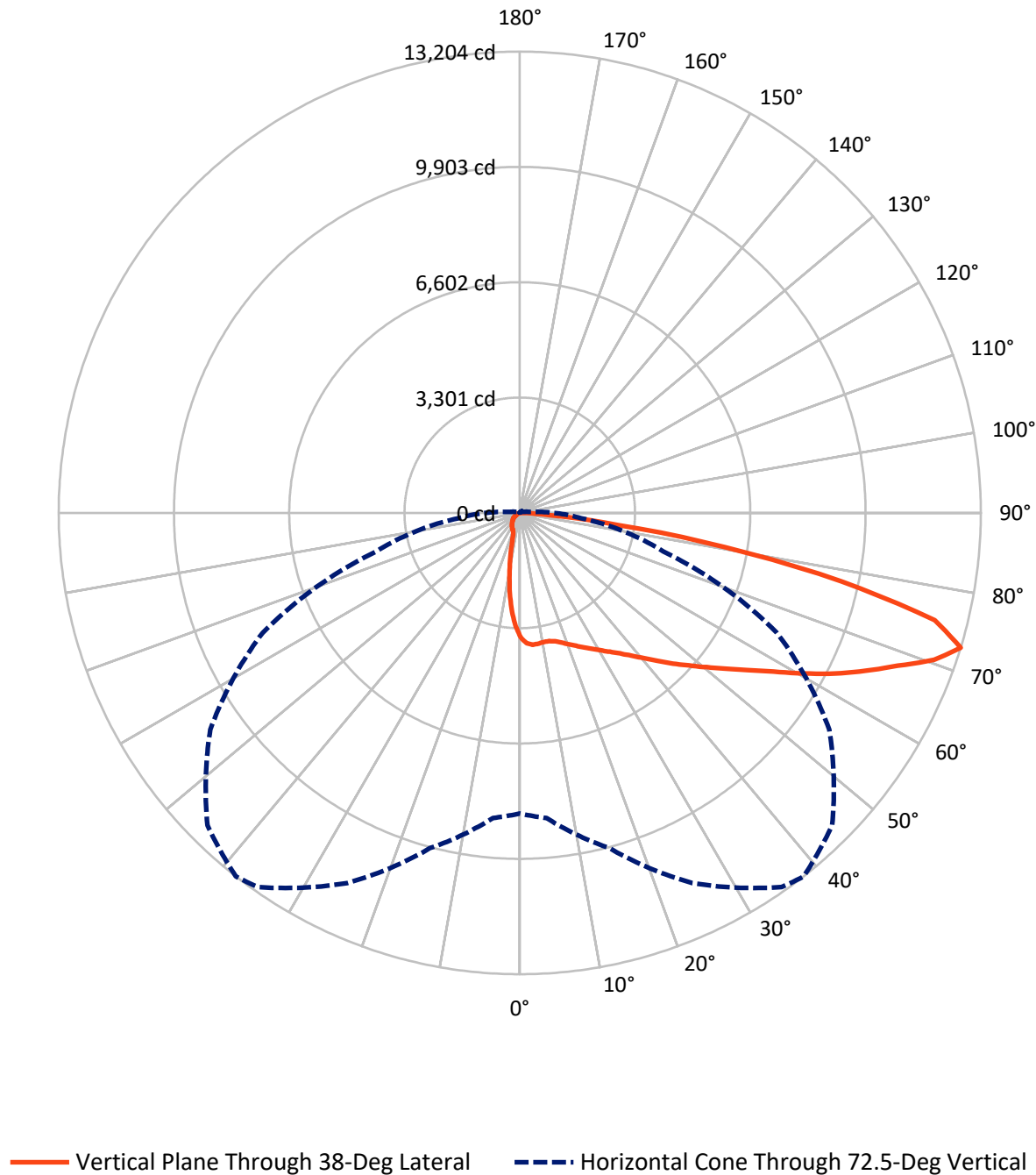
✕ Max cd
 - - - 1/2 Max cd



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	1631.3	0.0	1631.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17753.7	0.0	17753.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	19385.0	0.0	19385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	1.6
10°-20°	742.8	3.8
20°-30°	1181.5	6.1
30°-40°	1776.2	9.2
40°-50°	2709.7	14.0
50°-60°	3829.8	19.8
60°-70°	4803.8	24.8
70°-80°	3591.9	18.5
80°-90°	445.4	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°	19385.0	100.0
0°-180°	19385.0	100.0

Coefficient of Utilization



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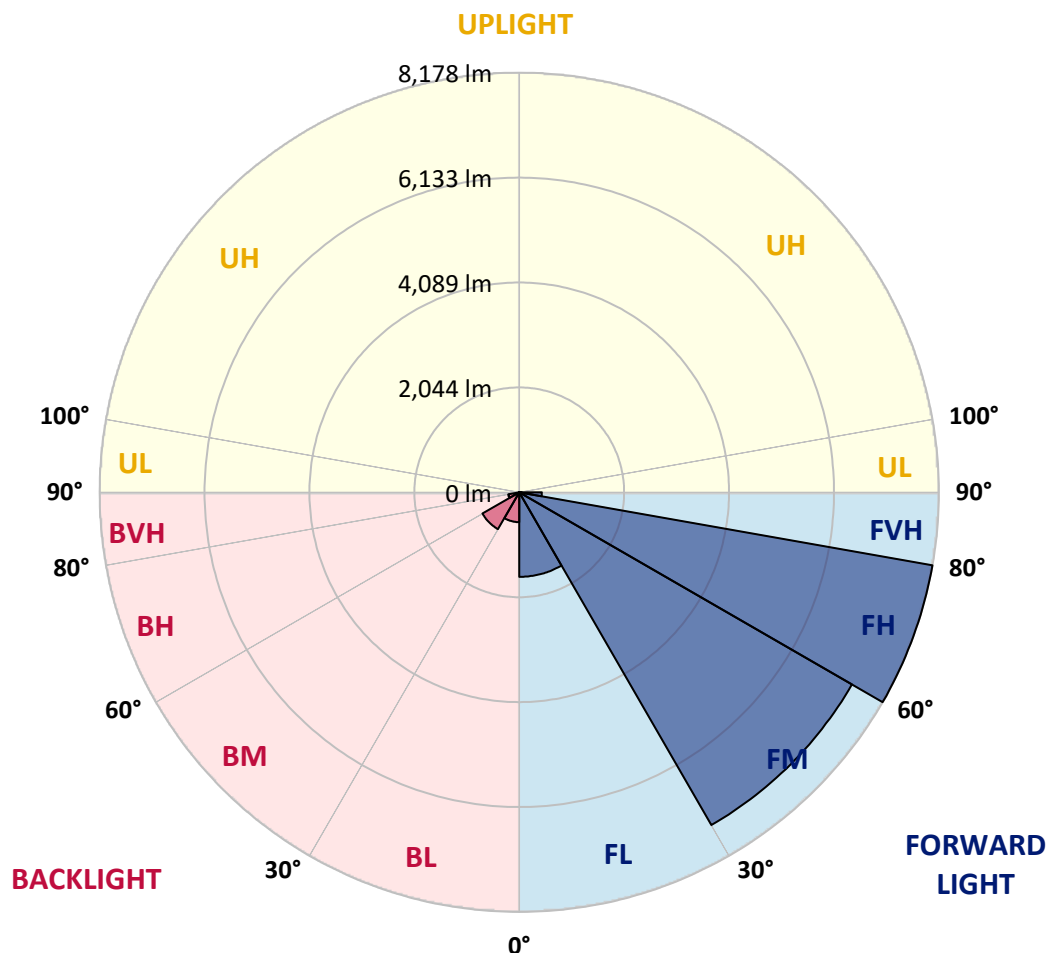
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.3	8.5			
FM	(30°-60°)	7487.3	38.6			
FH	(60°-80°)	8177.8	42.2			G4/12000
FVH	(80°-90°)	441.2	2.3			G3/500
BL	(0°-30°)	580.9	3.0	B2/1000		
BM	(30°-60°)	828.4	4.3	B1/1000		
BH	(60°-80°)	217.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.2	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°	38°	45°	55°	65°	75°	85°
0°	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8
2.5°	3783.8	3784.6	3775.8	3761.3	3742.8	3733.1	3717.0	3691.2	3663.9	3614.8	3561.6
5°	3861.1	3861.1	3849.8	3830.5	3800.7	3791.9	3761.3	3720.2	3663.9	3584.2	3494.8
7.5°	3853.1	3854.7	3839.4	3819.2	3789.5	3781.4	3744.4	3698.5	3628.4	3531.8	3417.5
10°	3811.2	3815.2	3803.1	3793.5	3766.1	3757.2	3722.6	3676.7	3606.7	3503.7	3372.4
12.5°	3768.5	3772.5	3776.6	3785.4	3768.5	3765.3	3737.9	3699.3	3632.5	3525.4	3377.3
15°	3741.1	3749.2	3778.2	3812.8	3816.8	3813.6	3795.9	3759.7	3692.0	3580.9	3411.9
17.5°	3741.1	3754.0	3814.4	3880.4	3903.8	3906.2	3890.9	3840.2	3759.7	3640.5	3444.1
20°	3772.5	3790.3	3884.4	3977.8	4016.5	4016.5	3986.7	3915.8	3821.7	3694.5	3465.8
22.5°	3853.1	3876.4	3994.7	4102.6	4143.7	4134.8	4094.6	3991.5	3886.1	3755.6	3493.2
25°	4011.6	4029.4	4152.5	4261.2	4286.2	4266.1	4215.3	4083.3	3968.2	3838.6	3543.1
27.5°	4216.1	4218.6	4345.8	4437.5	4422.2	4408.5	4344.9	4198.4	4086.5	3956.9	3629.2
30°	4440.8	4440.8	4552.7	4622.7	4576.0	4564.7	4501.1	4337.7	4237.9	4117.9	3751.6
32.5°	4658.1	4667.8	4758.8	4803.0	4750.7	4739.4	4677.4	4514.0	4439.1	4363.5	3942.4
35°	4868.2	4875.5	4961.6	4985.8	4935.9	4939.1	4894.8	4756.3	4728.2	4718.5	4229.8
37.5°	5071.9	5073.5	5161.3	5176.6	5151.6	5179.0	5183.0	5060.7	5113.0	5191.1	4634.8
40°	5257.9	5259.5	5346.5	5385.9	5428.6	5464.0	5495.4	5430.2	5603.3	5784.4	5117.0
42.5°	5406.8	5423.7	5534.0	5608.9	5721.6	5789.2	5874.6	5871.4	6186.9	6459.1	5699.9
45°	5538.1	5567.0	5720.8	5852.0	6045.2	6153.1	6286.8	6391.4	6843.9	7210.2	6290.0
47.5°	5711.1	5738.5	5914.0	6129.0	6386.6	6528.3	6749.7	6975.9	7566.0	7947.6	6866.4
50°	5955.1	5943.0	6116.1	6424.4	6755.3	6941.3	7256.9	7595.8	8282.5	8590.1	7205.4
52.5°	6215.1	6210.3	6338.3	6745.7	7190.1	7407.4	7824.4	8236.6	8967.6	9032.9	7360.7
55°	6537.1	6502.5	6610.4	7112.0	7706.1	7939.6	8430.7	8871.0	9513.5	9282.4	7438.8
57.5°	6874.5	6817.3	6920.4	7520.1	8288.2	8564.3	9102.1	9489.3	9876.6	9453.1	7438.0
60°	7223.1	7155.4	7277.8	8030.5	9011.1	9330.7	9829.9	9907.2	10215.5	9539.2	7383.3
62.5°	7514.5	7474.2	7656.2	8576.4	9818.6	10132.6	10379.7	10287.1	10501.3	9606.1	7255.3
65°	7822.8	7825.3	8119.1	9213.2	10676.8	10888.5	10909.5	10779.8	10740.4	9592.4	6822.1
67.5°	8239.9	8278.5	8768.8	10077.8	11511.7	11675.1	11673.5	11313.6	10915.1	9048.2	5861.7
70°	8681.0	8772.0	9517.5	11067.3	12423.0	12588.8	12503.5	11653.3	10277.5	7316.5	4148.5
72.5°	8607.0	8764.8	9933.7	11691.2	13077.5	13203.9	12649.2	10818.5	8123.1	4252.4	1766.3
75°	6640.2	6822.9	9108.5	11072.9	12390.8	12277.3	10868.4	8418.6	4439.1	1186.7	397.7
77.5°	3507.7	3605.1	6017.1	8435.5	9661.6	9424.1	7656.2	4670.2	1353.3	293.8	178.7
80°	1837.2	1859.7	2622.1	4786.1	5963.1	5964.7	4537.4	2051.3	557.9	150.5	120.0
82.5°	983.8	1003.1	1385.5	2211.5	3124.5	2832.2	1737.3	1128.7	324.4	85.3	115.1
85°	236.7	240.7	785.7	1010.4	1228.5	877.5	516.0	947.6	87.8	49.9	93.4
87.5°	91.0	92.6	291.4	437.2	313.2	202.9	241.5	353.4	11.3	19.3	14.5
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°	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8	3564.8
2.5°	3529.4	3508.5	3457.0	3391.7	3333.8	3291.9	3229.1	3188.1	3160.7	3159.9	3149.4
5°	3440.1	3397.4	3286.3	3154.3	3034.3	2926.4	2799.2	2698.6	2623.7	2611.6	2585.9
7.5°	3344.2	3274.2	3103.5	2897.4	2696.2	2491.7	2254.2	2106.9	1980.5	1920.1	1913.6
10°	3285.5	3187.3	2944.9	2647.1	2331.5	1999.0	1688.2	1473.3	1317.9	1273.6	1240.6
12.5°	3273.4	3143.8	2822.6	2412.0	1961.1	1521.6	1177.8	949.2	825.2	785.7	775.3
15°	3285.5	3123.7	2719.5	2179.3	1586.0	1079.6	790.6	657.7	611.0	599.8	599.0
17.5°	3292.7	3099.5	2602.8	1920.9	1222.1	771.3	605.4	566.8	559.5	558.7	560.3
20°	3291.9	3062.5	2463.5	1632.7	908.9	606.2	547.4	539.4	537.8	538.6	537.8
22.5°	3286.3	3019.0	2310.5	1335.6	686.7	541.8	522.5	517.7	516.9	516.9	516.9
25°	3296.8	2984.4	2142.3	1051.4	566.0	512.0	499.9	495.9	495.1	495.1	493.5
27.5°	3334.6	2965.1	1957.9	809.1	511.2	485.5	475.8	475.0	472.6	471.8	473.4
30°	3395.8	2965.1	1755.9	629.6	478.2	458.1	450.8	449.2	448.4	447.6	448.4
32.5°	3503.7	2987.6	1535.3	523.3	446.8	427.5	422.7	425.1	422.7	422.7	422.7
35°	3698.5	3055.2	1304.2	456.5	413.8	397.7	392.9	396.1	394.5	394.5	393.7
37.5°	3982.7	3180.8	1071.5	416.2	384.8	367.9	361.5	366.3	364.7	364.7	363.9
40°	4328.8	3363.6	850.2	385.6	356.6	338.9	333.3	335.7	331.7	331.7	333.3
42.5°	4756.3	3595.4	656.9	355.8	328.5	311.6	308.3	305.9	298.7	294.7	295.5
45°	5231.3	3837.0	512.0	326.9	301.9	288.2	283.4	276.9	264.9	256.8	257.6
47.5°	5655.6	4022.9	416.2	298.7	277.7	267.3	260.0	248.0	230.2	220.6	221.4
50°	5878.6	4051.1	354.2	270.5	255.2	244.7	234.3	215.8	194.8	184.4	183.6
52.5°	5935.8	3919.1	308.3	244.7	232.7	220.6	206.9	181.9	158.6	147.3	145.7
55°	5956.7	3717.8	267.3	220.6	208.5	194.8	177.1	148.9	127.2	115.9	115.1
57.5°	5887.5	3417.5	235.1	198.9	184.4	167.5	145.7	119.1	98.2	89.4	89.4
60°	5733.7	3011.0	210.1	175.5	159.4	140.1	117.5	92.6	73.3	66.0	66.0
62.5°	5427.0	2484.4	186.8	151.4	136.1	115.9	95.0	70.0	51.5	47.5	48.3
65°	4848.1	1884.7	163.4	129.6	115.9	95.8	74.1	49.9	34.6	34.6	36.2
67.5°	3953.7	1309.0	139.3	110.3	99.8	78.1	56.4	34.6	24.2	27.4	30.6
70°	2617.3	734.2	119.1	91.0	85.3	62.0	41.9	23.3	19.3	25.8	31.4
72.5°	987.8	285.8	99.8	73.3	74.1	47.5	29.8	17.7	17.7	28.2	37.0
75°	275.3	140.1	71.7	53.9	58.0	34.6	21.7	15.3	16.9	32.2	43.5
77.5°	161.8	103.0	46.7	31.4	39.4	24.2	14.5	12.1	14.5	27.4	41.9
80°	130.4	54.7	27.4	16.1	21.7	13.7	9.7	7.2	4.0	10.5	21.7
82.5°	130.4	33.0	12.9	11.3	11.3	7.2	4.8	3.2	0.8	0.0	5.6
85°	87.8	13.7	8.1	7.2	5.6	2.4	1.6	0.8	0.0	0.0	0.0
87.5°	14.5	5.6	3.2	1.6	0.8	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)