

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: P322714

Luminaire Tested: **GAN-SA0A-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26031 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

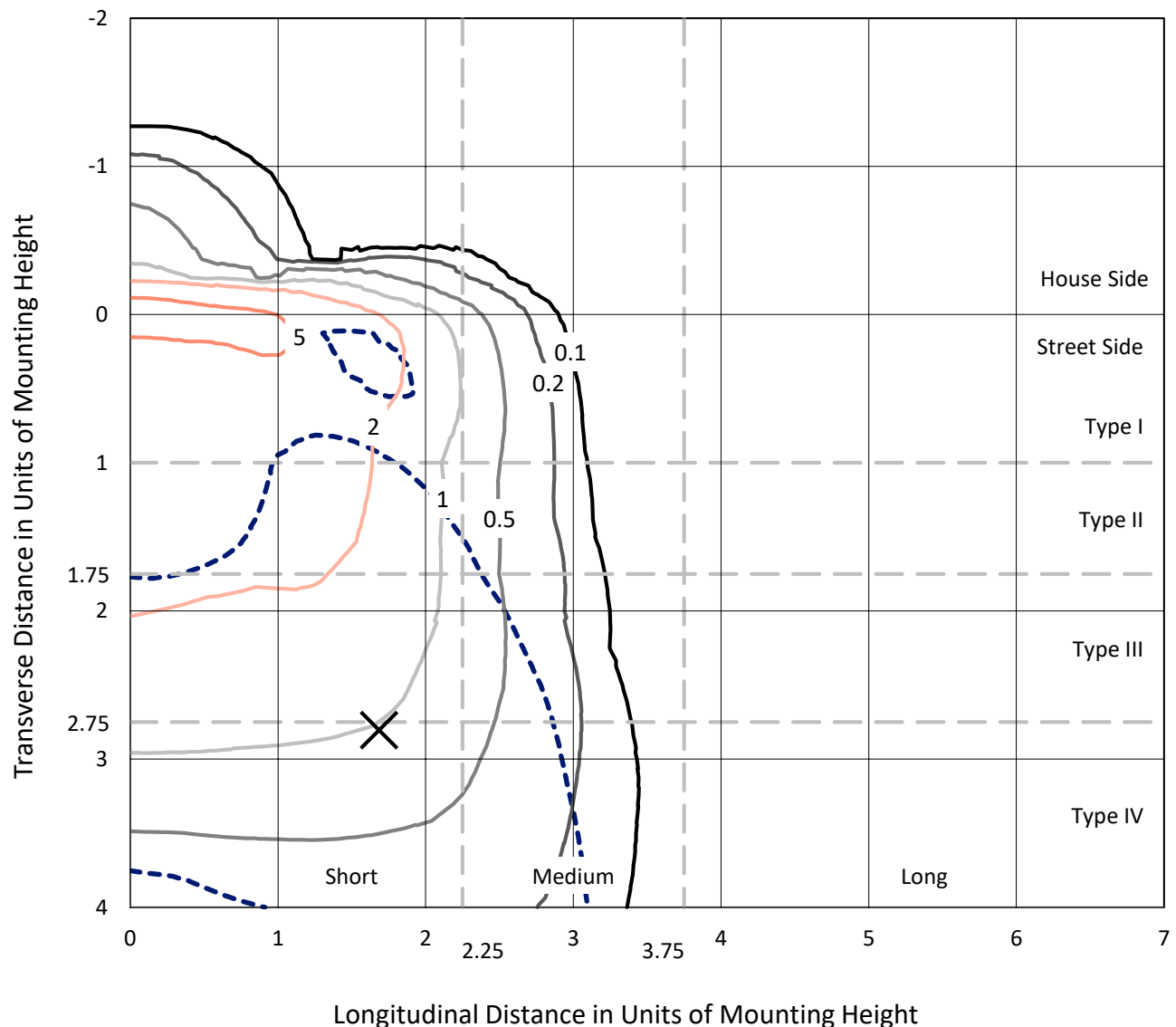
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

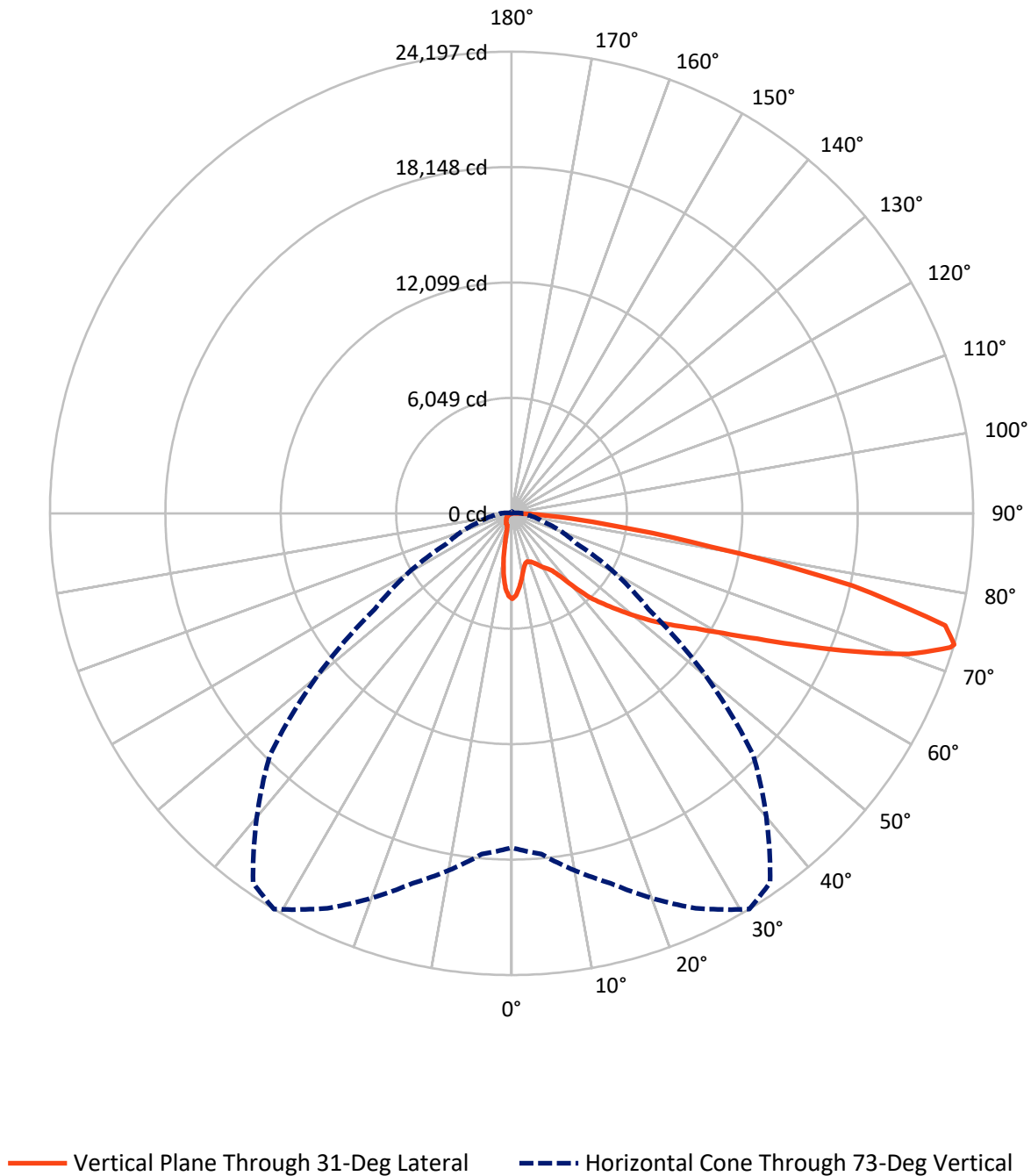
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2372.8	0.0	2372.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	23658.2	0.0	23658.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	26031.0	0.0	26031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	1.4
10°-20°	806.3	3.1
20°-30°	1208.1	4.6
30°-40°	1922.0	7.4
40°-50°	3432.2	13.2
50°-60°	5325.8	20.5
60°-70°	7080.0	27.2
70°-80°	5325.6	20.5
80°-90°	559.6	2.1
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°	26031.0	100.0
0°-180°	26031.0	100.0

Coefficient of Utilization



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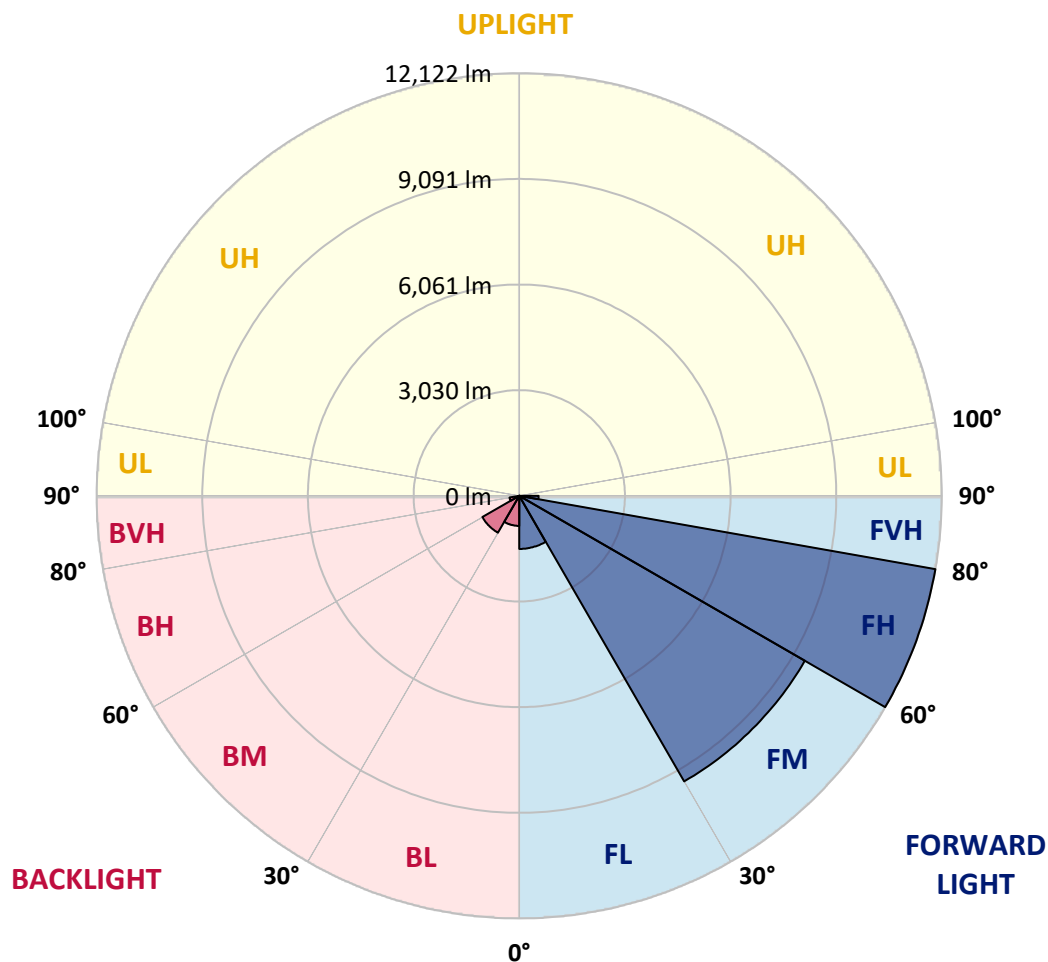
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.8	5.9			
FM	(30°-60°)	9458.8	36.3			
FH	(60°-80°)	12121.7	46.6			G5
FVH	(80°-90°)	554.9	2.1			G4/750
BL	(0°-30°)	862.9	3.3	B2/1000		
BM	(30°-60°)	1221.4	4.7	B2/2500		
BH	(60°-80°)	283.9	1.1	B1/500		G1/500
BVH	(80°-90°)	4.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7
2.5°	4244.3	4262.1	4281.2	4285.1	4316.9	4318.2	4364.0	4398.4	4432.8	4465.9	4477.4
5°	3808.7	3838.0	3872.4	3906.7	3974.3	4001.0	4113.1	4227.7	4337.3	4441.7	4492.7
7.5°	3343.7	3376.8	3425.3	3510.6	3585.8	3638.0	3815.0	4018.8	4222.7	4415.0	4525.8
10°	2919.6	2950.1	3001.1	3091.5	3207.4	3278.8	3517.0	3799.8	4099.1	4390.8	4575.5
12.5°	2649.5	2666.1	2694.1	2790.9	2895.4	2975.6	3255.8	3606.1	3997.2	4389.5	4655.7
15°	2599.8	2604.9	2582.0	2625.3	2706.8	2784.5	3068.6	3449.5	3919.5	4409.9	4760.2
17.5°	2678.8	2676.3	2599.8	2594.7	2659.7	2723.4	2976.9	3341.2	3864.7	4457.0	4895.2
20°	2798.5	2789.6	2657.2	2632.9	2701.7	2761.6	2970.5	3300.4	3844.3	4536.0	5059.5
22.5°	2957.8	2942.5	2734.9	2709.4	2783.3	2845.7	3049.5	3339.9	3862.2	4641.7	5250.6
25°	3155.2	3132.3	2868.6	2840.6	2915.7	2978.1	3190.9	3453.3	3915.7	4770.4	5492.6
27.5°	3378.1	3345.0	3082.6	3010.0	3095.3	3160.3	3379.4	3626.5	3999.7	4906.7	5789.4
30°	3588.3	3545.0	3308.1	3188.3	3292.8	3365.4	3583.2	3832.9	4134.8	5116.9	6195.8
32.5°	3799.8	3751.3	3509.3	3366.7	3460.9	3539.9	3793.4	4116.9	4388.2	5437.9	6735.9
35°	4286.3	4235.4	3938.6	3702.9	3701.7	3746.3	4087.6	4505.4	4723.3	5885.0	7380.4
37.5°	5105.4	5076.1	4793.3	4346.2	4226.5	4176.8	4488.9	4969.1	5204.8	6500.2	8107.7
40°	6002.2	5976.7	5659.5	5254.4	5072.3	4950.0	5064.6	5614.9	5885.0	7251.8	8850.4
42.5°	7014.8	6893.8	6328.2	6207.2	6044.2	5951.2	5848.0	6411.0	6720.6	8069.5	9586.6
45°	7934.5	7730.7	6997.0	6813.6	6776.6	6799.6	6856.9	7481.0	7660.6	9041.4	10320.3
47.5°	8482.2	8321.7	7758.7	7582.9	7572.8	7724.3	8157.4	8689.9	8596.9	9888.5	10966.2
50°	9003.2	8858.0	8390.5	8433.8	8481.0	8687.3	9633.8	9933.1	9451.6	10656.6	11558.5
52.5°	9424.9	9203.2	8958.6	9201.9	9433.8	9766.2	11157.2	11049.0	10057.9	11268.1	12065.4
55°	9668.2	9567.5	9686.0	9930.6	10366.2	10906.3	12595.4	11977.6	10501.2	11826.0	12403.0
57.5°	10559.8	10362.4	10598.0	10809.5	11377.6	12133.0	13827.1	12669.2	10820.9	12171.2	12480.7
60°	11638.7	11479.5	11618.3	11969.9	12736.7	13624.6	14978.6	13233.5	10987.8	12392.8	12279.4
62.5°	13355.8	13145.6	13059.0	13452.6	14469.1	15438.5	15852.5	13624.6	10950.9	12294.7	11589.0
65°	15656.3	15438.5	15051.2	15407.9	16700.8	17384.8	16829.5	13707.4	10696.1	11501.2	9843.9
67.5°	18012.8	17854.9	17523.7	18124.9	19291.7	19512.1	17862.5	13506.1	9875.8	9325.5	6955.0
70°	19569.4	19501.9	19717.2	21047.0	22087.7	22024.0	18810.2	12424.7	7697.6	5734.7	3440.5
72.5°	18447.2	18770.7	20360.4	22771.8	24043.0	23523.3	18323.6	9540.8	4399.7	2206.2	994.8
73°	17517.3	17931.3	20071.3	22836.7	24197.1	23627.7	17914.7	8757.4	3750.1	1741.3	754.1
75°	12186.5	12694.7	16616.7	21268.7	23476.2	22511.9	14932.8	5360.2	1737.5	771.9	304.4
77.5°	5916.8	6292.6	9149.7	15367.1	18257.4	17588.7	9296.2	1997.3	784.7	482.8	140.1
80°	2208.8	2455.9	3971.7	7821.1	10550.9	10827.3	4088.9	755.4	522.3	388.5	71.3
82.5°	578.3	644.5	1464.9	3487.7	5407.3	5659.5	1289.1	380.9	382.1	319.7	43.3
85°	184.7	211.5	457.3	1565.5	2547.6	2236.8	336.3	184.7	277.7	238.2	24.2
87.5°	22.9	29.3	145.2	368.1	561.7	312.1	52.2	54.8	118.5	132.5	14.0
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°	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7	4478.7
2.5°	4488.9	4482.5	4483.8	4450.7	4429.0	4385.7	4341.1	4320.7	4299.1	4290.2	4299.1
5°	4511.8	4500.3	4467.2	4365.3	4257.0	4116.9	3985.7	3886.4	3761.5	3727.1	3762.8
7.5°	4547.5	4524.5	4427.7	4220.1	3979.4	3711.9	3411.2	3192.1	3012.5	2896.6	2938.7
10°	4599.7	4556.4	4361.5	4008.7	3578.1	3104.3	2677.5	2345.1	2109.4	2012.6	2008.8
12.5°	4687.6	4606.1	4280.0	3733.5	3087.7	2455.9	1896.7	1536.2	1345.1	1221.6	1219.0
15°	4784.4	4664.7	4176.8	3403.6	2517.0	1759.1	1221.6	947.7	824.1	784.7	779.6
17.5°	4902.9	4732.2	4043.0	2997.3	1919.6	1165.5	797.4	718.4	713.3	709.5	709.5
20°	5051.9	4812.4	3871.1	2532.3	1361.7	778.3	677.7	682.8	685.3	680.2	681.5
22.5°	5225.1	4893.9	3666.0	2033.0	921.0	650.9	648.4	654.7	657.3	654.7	656.0
25°	5426.4	4988.2	3416.3	1509.5	664.9	617.8	624.2	633.1	639.4	639.4	639.4
27.5°	5676.1	5102.8	3115.7	1053.4	574.5	583.4	601.2	617.8	626.7	629.3	629.3
30°	6000.9	5245.5	2755.2	722.2	522.3	537.5	570.7	602.5	619.1	621.6	622.9
32.5°	6411.0	5406.0	2337.4	533.7	477.7	489.1	524.8	578.3	610.2	615.2	615.2
35°	6881.1	5592.0	1887.8	464.9	445.8	449.7	477.7	538.8	594.9	608.9	610.2
37.5°	7395.7	5775.4	1435.6	434.4	419.1	419.1	439.5	491.7	557.9	601.2	606.3
40°	7875.9	5886.2	1006.3	410.2	394.9	394.9	412.7	450.9	513.3	578.3	592.3
42.5°	8319.2	5924.5	700.6	387.2	372.0	375.8	391.1	421.6	468.8	533.7	546.5
45°	8775.2	5918.1	510.8	360.5	349.0	360.5	372.0	394.9	429.3	466.2	468.8
47.5°	9119.1	5864.6	405.1	335.0	327.4	342.7	352.8	368.1	387.2	384.7	384.7
50°	9441.4	5734.7	326.1	300.6	305.7	323.5	328.6	333.7	335.0	310.8	308.3
52.5°	9686.0	5532.1	261.1	263.7	284.1	301.9	296.8	289.2	276.4	247.1	242.0
55°	9767.5	5142.3	205.1	217.8	252.2	275.1	256.0	239.5	215.3	191.1	186.0
57.5°	9619.8	4639.2	166.9	169.4	212.7	231.8	210.2	191.1	164.3	143.9	140.1
60°	9306.4	4080.0	137.6	127.4	164.3	180.9	166.9	147.8	123.6	108.3	107.0
62.5°	8684.8	3483.8	113.4	99.4	124.8	138.8	129.9	115.9	95.5	85.3	84.1
65°	7377.9	2787.1	91.7	80.2	96.8	108.3	100.6	90.4	75.2	67.5	66.2
67.5°	5150.0	1884.0	75.2	66.2	76.4	85.3	79.0	73.9	59.9	58.6	59.9
70°	2483.9	908.2	62.4	53.5	59.9	66.2	63.7	59.9	57.3	66.2	76.4
72.5°	712.1	304.4	49.7	44.6	48.4	52.2	54.8	53.5	62.4	80.2	93.0
73°	547.7	245.8	47.1	42.0	45.9	51.0	53.5	52.2	63.7	81.5	93.0
75°	234.4	118.5	35.7	34.4	38.2	44.6	47.1	47.1	63.7	82.8	89.2
77.5°	105.7	63.7	22.9	26.7	33.1	35.7	39.5	39.5	51.0	63.7	63.7
80°	59.9	34.4	17.8	20.4	24.2	24.2	24.2	21.7	22.9	25.5	28.0
82.5°	38.2	22.9	14.0	16.6	15.3	12.7	10.2	10.2	8.9	10.2	12.7
85°	21.7	12.7	12.7	10.2	6.4	5.1	6.4	5.1	1.3	0.0	1.3
87.5°	12.7	7.6	3.8	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)