

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: P322700

Luminaire Tested: **GAN-SA6D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322700
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-SA6D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 24227 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

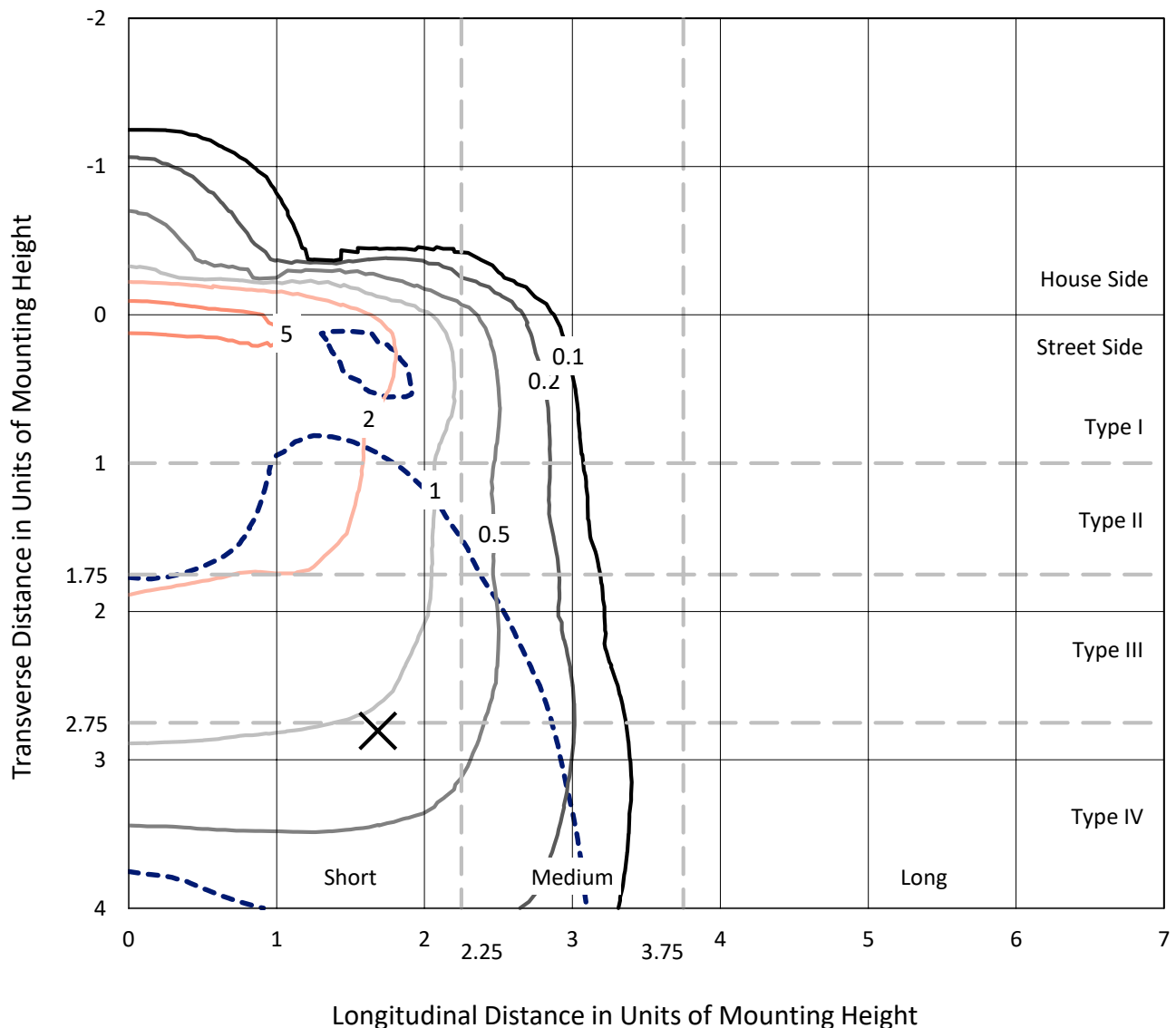
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

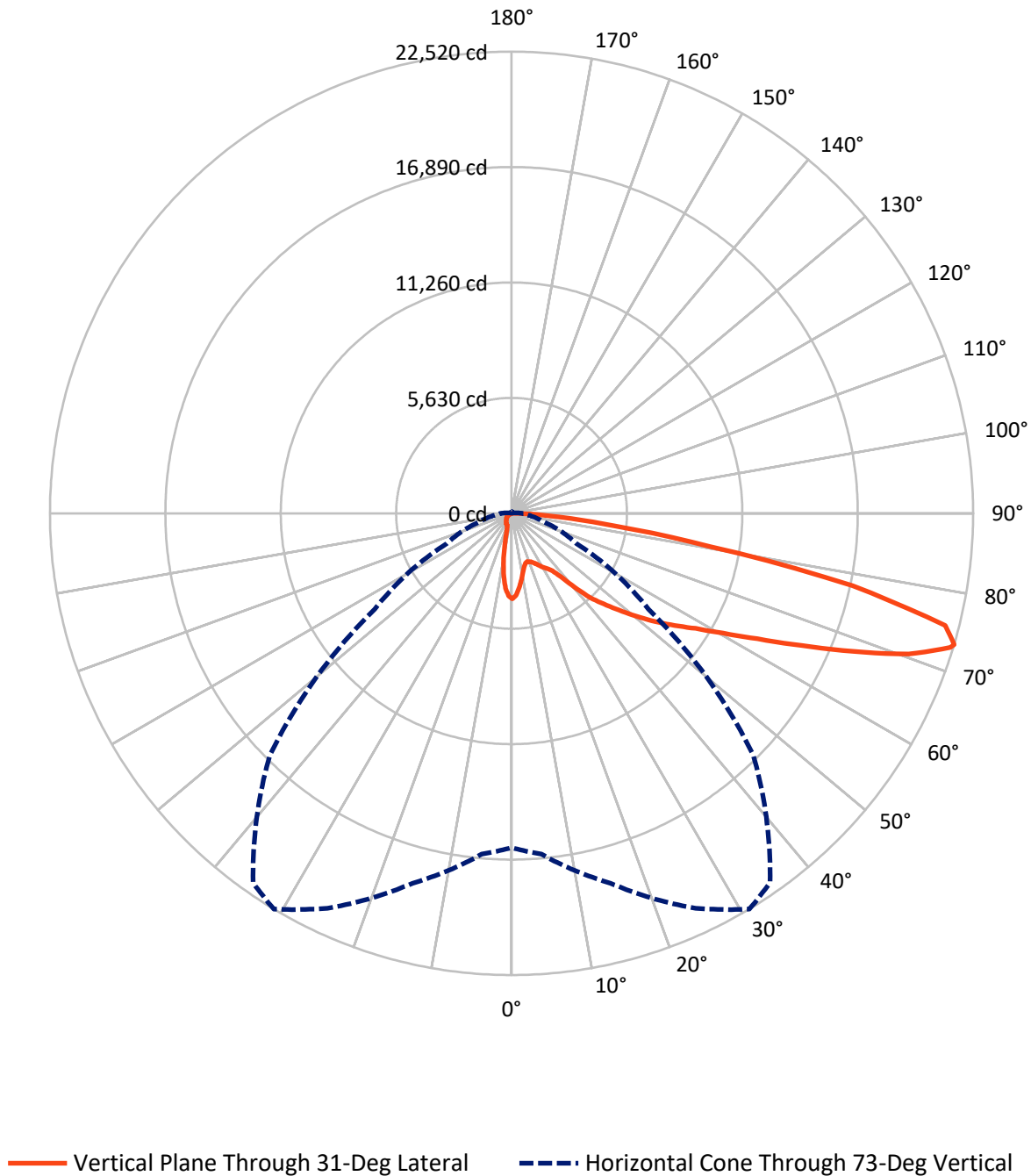
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	2208.4	0.0	2208.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	22018.6	0.0	22018.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	24227.0	0.0	24227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	1.4
10°-20°	750.4	3.1
20°-30°	1124.3	4.6
30°-40°	1788.8	7.4
40°-50°	3194.4	13.2
50°-60°	4956.8	20.5
60°-70°	6589.3	27.2
70°-80°	4956.5	20.5
80°-90°	520.8	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°	24227.0	100.0
0°-180°	24227.0	100.0

Coefficient of Utilization



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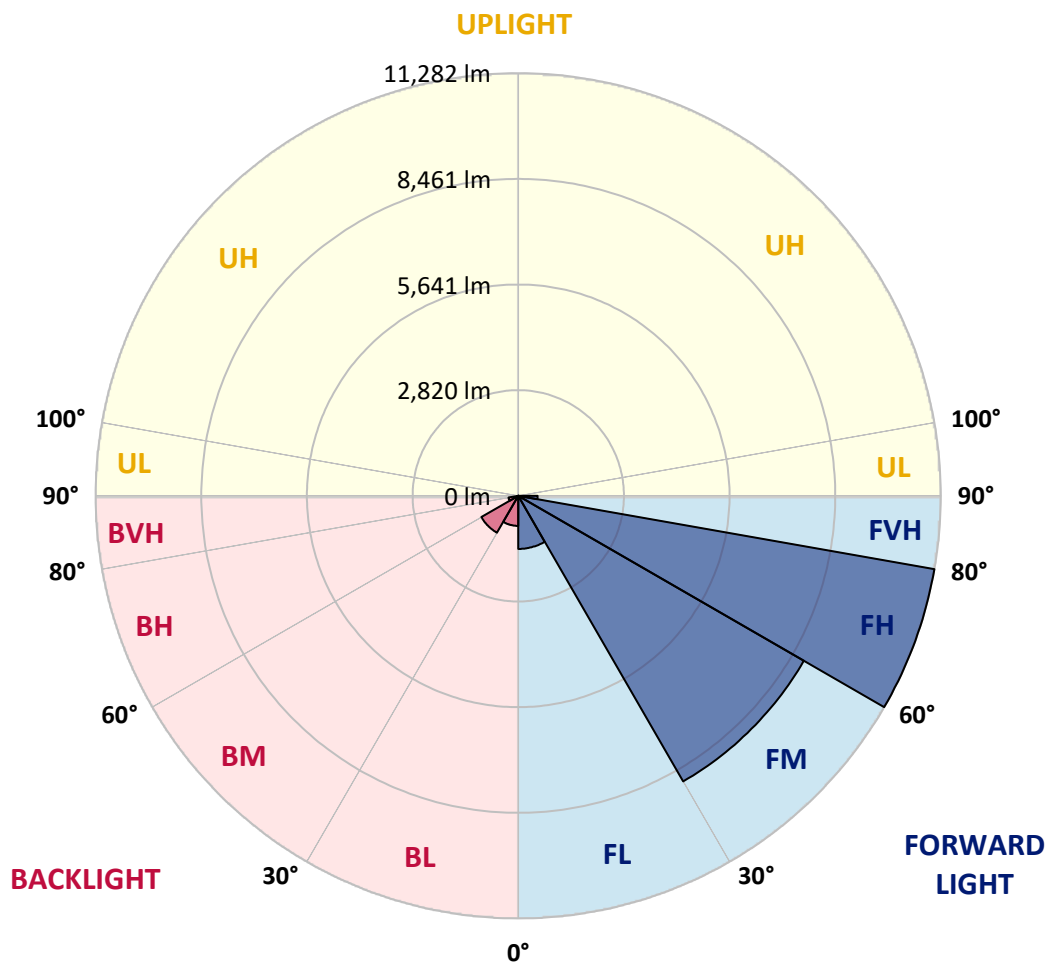
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.3	5.9			
FM	(30°-60°)	8803.2	36.3			
FH	(60°-80°)	11281.6	46.6			G4/12000
FVH	(80°-90°)	516.4	2.1			G4/750
BL	(0°-30°)	803.1	3.3	B2/1000		
BM	(30°-60°)	1136.7	4.7	B2/2500		
BH	(60°-80°)	264.2	1.1	B1/500		G1/500
BVH	(80°-90°)	4.4	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°	31°	35°	45°	55°	65°	75°	85°
0°	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3
2.5°	3950.2	3966.8	3984.5	3988.1	4017.7	4018.9	4061.6	4093.6	4125.6	4156.4	4167.1
5°	3544.7	3572.0	3604.0	3636.0	3698.8	3723.7	3828.1	3934.8	4036.7	4133.9	4181.3
7.5°	3112.0	3142.8	3187.9	3267.3	3337.3	3385.9	3550.6	3740.3	3930.0	4109.0	4212.2
10°	2717.2	2745.7	2793.1	2877.3	2985.2	3051.5	3273.2	3536.4	3815.0	4086.5	4258.4
12.5°	2465.9	2481.3	2507.4	2597.5	2694.7	2769.4	3030.2	3356.2	3720.2	4085.3	4333.1
15°	2419.7	2424.4	2403.1	2443.4	2519.2	2591.6	2855.9	3210.4	3647.9	4104.3	4430.3
17.5°	2493.2	2490.8	2419.7	2414.9	2475.4	2534.7	2770.6	3109.6	3596.9	4148.2	4556.0
20°	2604.6	2596.3	2473.0	2450.5	2514.5	2570.2	2764.6	3071.7	3577.9	4221.7	4708.9
22.5°	2752.8	2738.6	2545.3	2521.6	2590.4	2648.5	2838.1	3108.4	3594.5	4320.1	4886.7
25°	2936.5	2915.2	2669.8	2643.7	2713.7	2771.8	2969.7	3214.0	3644.3	4439.8	5112.0
27.5°	3144.0	3113.2	2869.0	2801.4	2880.8	2941.3	3145.2	3375.2	3722.5	4566.6	5388.2
30°	3339.6	3299.3	3078.8	2967.4	3064.6	3132.2	3334.9	3567.2	3848.2	4762.3	5766.4
32.5°	3536.4	3491.4	3266.1	3133.3	3221.1	3294.6	3530.5	3831.6	4084.1	5061.0	6269.1
35°	3989.3	3941.9	3665.6	3446.3	3445.1	3486.6	3804.3	4193.2	4395.9	5477.1	6868.9
37.5°	4751.6	4724.3	4461.1	4045.0	3933.6	3887.3	4177.8	4624.7	4844.1	6049.7	7545.9
40°	5586.2	5562.5	5267.3	4890.3	4720.8	4606.9	4713.6	5225.8	5477.1	6749.2	8237.0
42.5°	6528.7	6416.1	5889.7	5777.1	5625.3	5538.8	5442.7	5966.7	6254.8	7510.3	8922.3
45°	7384.6	7194.9	6512.1	6341.4	6307.0	6328.3	6381.7	6962.6	7129.7	8414.9	9605.1
47.5°	7894.4	7745.0	7221.0	7057.4	7047.9	7189.0	7592.1	8087.6	8001.1	9203.2	10206.2
50°	8379.3	8244.1	7809.1	7849.4	7893.2	8085.3	8966.1	9244.7	8796.6	9918.1	10757.5
52.5°	8771.7	8565.4	8337.8	8564.2	8780.0	9089.4	10384.0	10283.2	9360.9	10487.2	11229.3
55°	8998.1	8904.5	9014.7	9242.4	9647.8	10150.5	11722.5	11147.5	9773.5	11006.4	11543.5
57.5°	9828.0	9644.2	9863.6	10060.4	10589.1	11292.1	12868.9	11791.2	10071.0	11327.7	11615.8
60°	10832.1	10683.9	10813.2	11140.4	11854.1	12680.4	13940.6	12316.4	10226.3	11534.0	11428.5
62.5°	12430.2	12234.6	12154.0	12520.3	13466.4	14368.6	14753.9	12680.4	10192.0	11442.7	10785.9
65°	14571.3	14368.6	14008.2	14340.1	15543.4	16180.0	15663.2	12757.4	9954.9	10704.1	9161.7
67.5°	16764.5	16617.5	16309.3	16868.8	17954.8	18159.9	16624.6	12570.1	9191.4	8679.2	6473.0
70°	18213.2	18150.4	18350.7	19588.4	20557.0	20497.7	17506.6	11563.6	7164.1	5337.2	3202.1
72.5°	17168.8	17469.9	18949.4	21193.6	22376.8	21893.1	17053.8	8879.6	4094.8	2053.3	925.9
73°	16303.3	16688.6	18680.3	21254.1	22520.2	21990.3	16673.2	8150.5	3490.2	1620.6	701.8
75°	11341.9	11814.9	15465.2	19794.7	21849.2	20951.8	13897.9	4988.7	1617.1	718.4	283.3
77.5°	5506.8	5856.5	8515.6	14302.2	16992.1	16369.7	8652.0	1858.9	730.3	449.3	130.4
80°	2055.7	2285.7	3696.5	7279.1	9819.7	10077.0	3805.5	703.0	486.1	361.6	66.4
82.5°	538.2	599.9	1363.4	3246.0	5032.6	5267.3	1199.8	354.5	355.7	297.6	40.3
85°	171.9	196.8	425.6	1457.0	2371.0	2081.8	313.0	171.9	258.4	221.7	22.5
87.5°	21.3	27.3	135.1	342.6	522.8	290.5	48.6	51.0	110.3	123.3	13.0
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°	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3
2.5°	4177.8	4171.9	4173.0	4142.2	4122.1	4081.8	4040.3	4021.3	4001.1	3992.8	4001.1
5°	4199.1	4188.5	4157.6	4062.8	3962.0	3831.6	3709.5	3617.0	3500.9	3468.8	3502.0
7.5°	4232.3	4211.0	4120.9	3927.6	3703.6	3454.6	3174.8	2970.9	2803.8	2695.9	2735.0
10°	4280.9	4240.6	4059.2	3730.8	3330.1	2889.1	2492.0	2182.6	1963.2	1873.1	1869.6
12.5°	4362.7	4286.9	3983.4	3474.8	2873.7	2285.7	1765.2	1429.7	1251.9	1136.9	1134.5
15°	4452.8	4341.4	3887.3	3167.7	2342.6	1637.2	1136.9	882.0	767.0	730.3	725.5
17.5°	4563.1	4404.2	3762.9	2789.5	1786.6	1084.8	742.1	668.6	663.9	660.3	660.3
20°	4701.8	4478.9	3602.8	2356.8	1267.3	724.4	630.7	635.4	637.8	633.1	634.3
22.5°	4863.0	4554.8	3411.9	1892.1	857.1	605.8	603.4	609.4	611.7	609.4	610.5
25°	5050.3	4642.5	3179.6	1404.8	618.8	575.0	580.9	589.2	595.1	595.1	595.1
27.5°	5282.7	4749.2	2899.8	980.4	534.7	543.0	559.6	575.0	583.3	585.6	585.6
30°	5585.0	4882.0	2564.3	672.2	486.1	500.3	531.1	560.8	576.2	578.5	579.7
32.5°	5966.7	5031.4	2175.4	496.7	444.6	455.2	488.4	538.2	567.9	572.6	572.6
35°	6404.2	5204.5	1756.9	432.7	414.9	418.5	444.6	501.5	553.6	566.7	567.9
37.5°	6883.2	5375.2	1336.1	404.3	390.0	390.0	409.0	457.6	519.3	559.6	564.3
40°	7330.1	5478.3	936.6	381.7	367.5	367.5	384.1	419.7	477.8	538.2	551.3
42.5°	7742.7	5513.9	652.0	360.4	346.2	349.7	364.0	392.4	436.3	496.7	508.6
45°	8167.1	5507.9	475.4	335.5	324.8	335.5	346.2	367.5	399.5	433.9	436.3
47.5°	8487.2	5458.2	377.0	311.8	304.7	318.9	328.4	342.6	360.4	358.0	358.0
50°	8787.1	5337.2	303.5	279.8	284.5	301.1	305.9	310.6	311.8	289.3	286.9
52.5°	9014.7	5148.7	243.0	245.4	264.4	281.0	276.2	269.1	257.3	230.0	225.2
55°	9090.6	4786.0	190.9	202.7	234.7	256.1	238.3	222.9	200.4	177.8	173.1
57.5°	8953.1	4317.7	155.3	157.7	198.0	215.8	195.6	177.8	152.9	134.0	130.4
60°	8661.4	3797.2	128.0	118.6	152.9	168.3	155.3	137.5	115.0	100.8	99.6
62.5°	8082.9	3242.4	105.5	92.5	116.2	129.2	120.9	107.9	88.9	79.4	78.2
65°	6866.6	2593.9	85.4	74.7	90.1	100.8	93.7	84.2	69.9	62.8	61.6
67.5°	4793.1	1753.4	69.9	61.6	71.1	79.4	73.5	68.8	55.7	54.5	55.7
70°	2311.8	845.3	58.1	49.8	55.7	61.6	59.3	55.7	53.3	61.6	71.1
72.5°	662.7	283.3	46.2	41.5	45.0	48.6	51.0	49.8	58.1	74.7	86.5
73°	509.8	228.8	43.9	39.1	42.7	47.4	49.8	48.6	59.3	75.9	86.5
75°	218.1	110.3	33.2	32.0	35.6	41.5	43.9	43.9	59.3	77.1	83.0
77.5°	98.4	59.3	21.3	24.9	30.8	33.2	36.8	36.8	47.4	59.3	59.3
80°	55.7	32.0	16.6	19.0	22.5	22.5	22.5	20.2	21.3	23.7	26.1
82.5°	35.6	21.3	13.0	15.4	14.2	11.9	9.5	9.5	8.3	9.5	11.9
85°	20.2	11.9	11.9	9.5	5.9	4.7	5.9	4.7	1.2	0.0	1.2
87.5°	11.9	7.1	3.6	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)