

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: P322703

Luminaire Tested: **GAN-SA9D-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322703
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-SA9D-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 36211 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

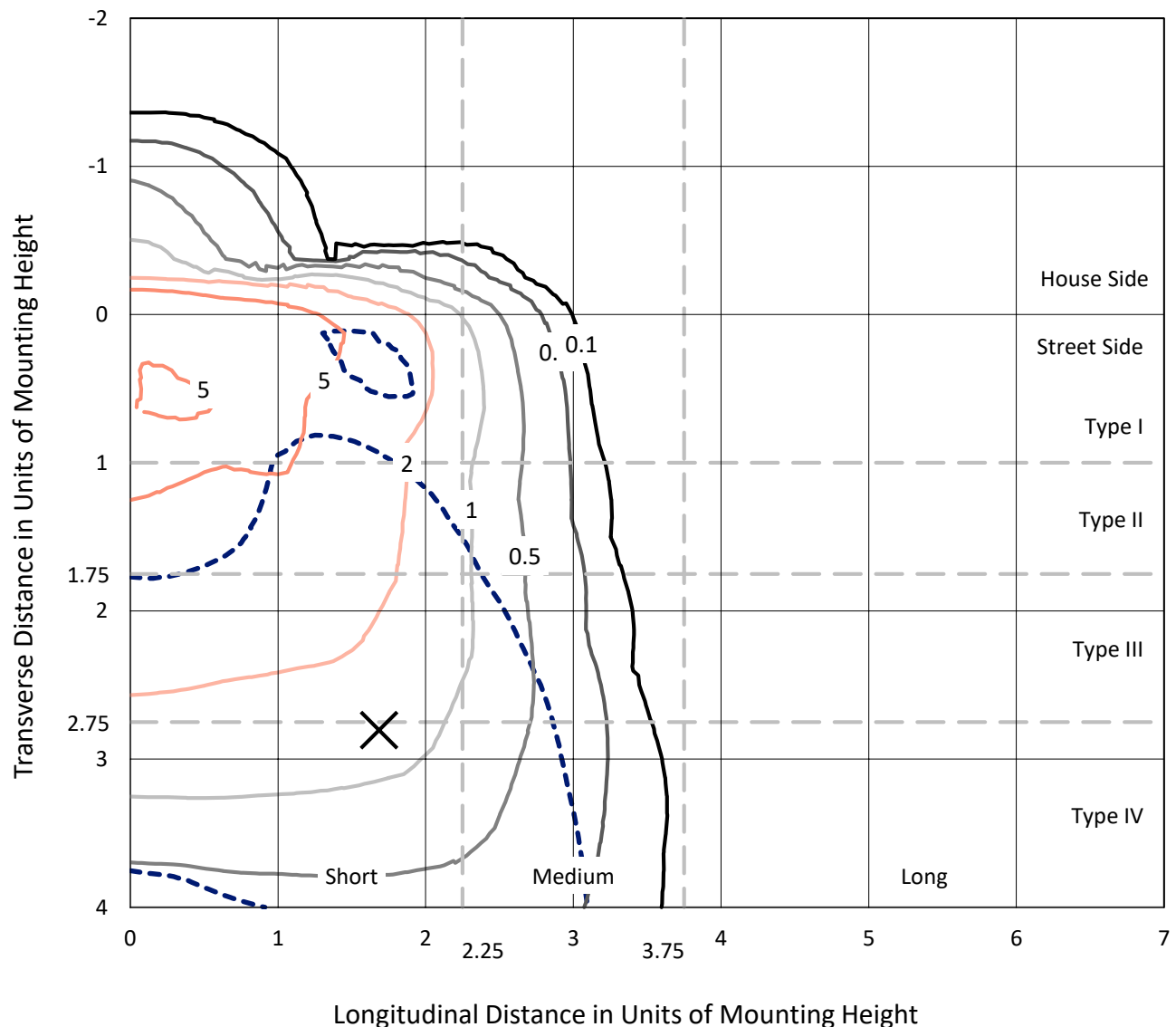
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

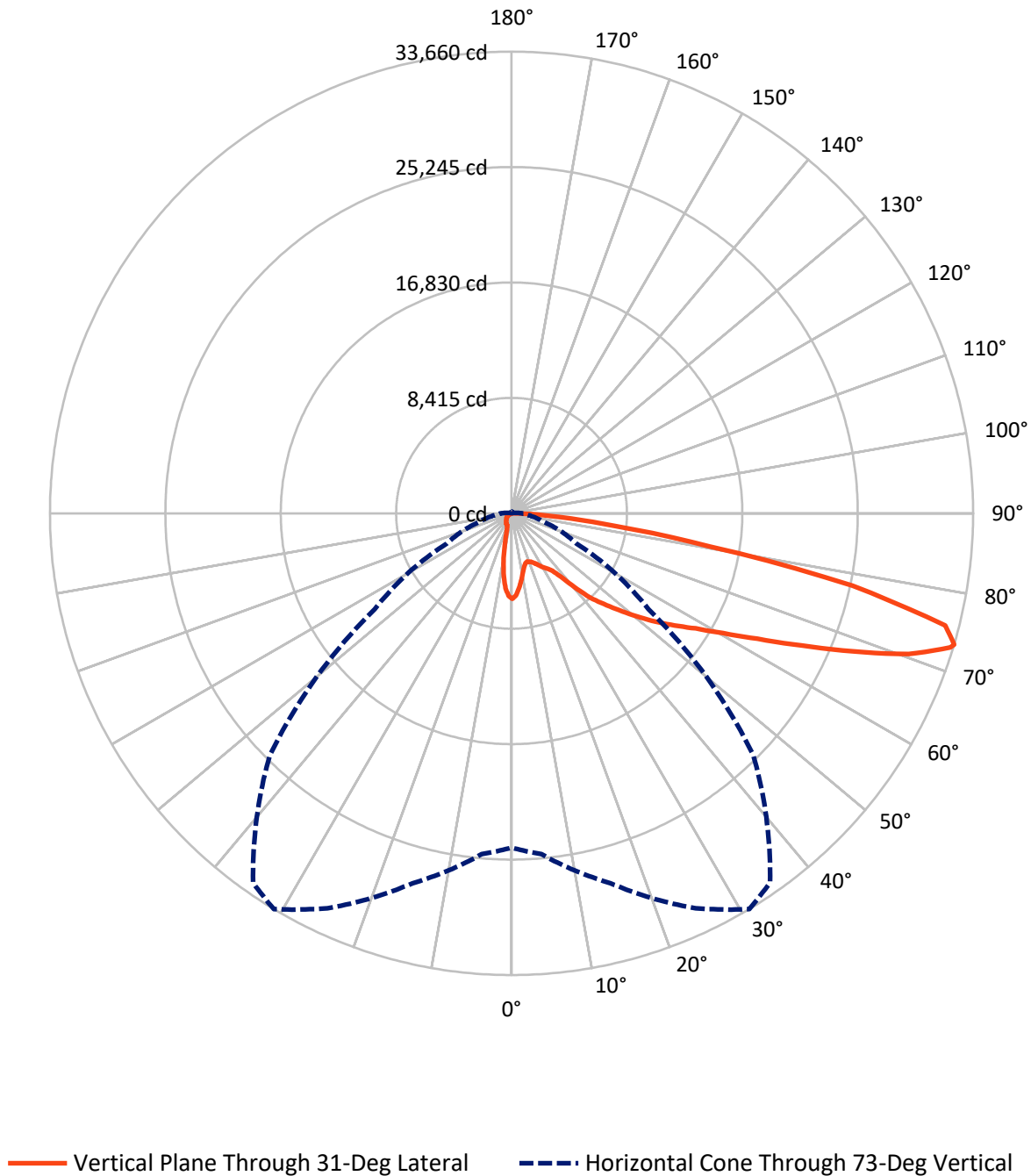
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3300.8	0.0	3300.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32910.2	0.0	32910.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	36211.0	0.0	36211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.6	1.4
10°-20°	1121.6	3.1
20°-30°	1680.5	4.6
30°-40°	2673.7	7.4
40°-50°	4774.5	13.2
50°-60°	7408.6	20.5
60°-70°	9848.8	27.2
70°-80°	7408.3	20.5
80°-90°	778.5	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°	36211.0	100.0
0°-180°	36211.0	100.0

Coefficient of Utilization



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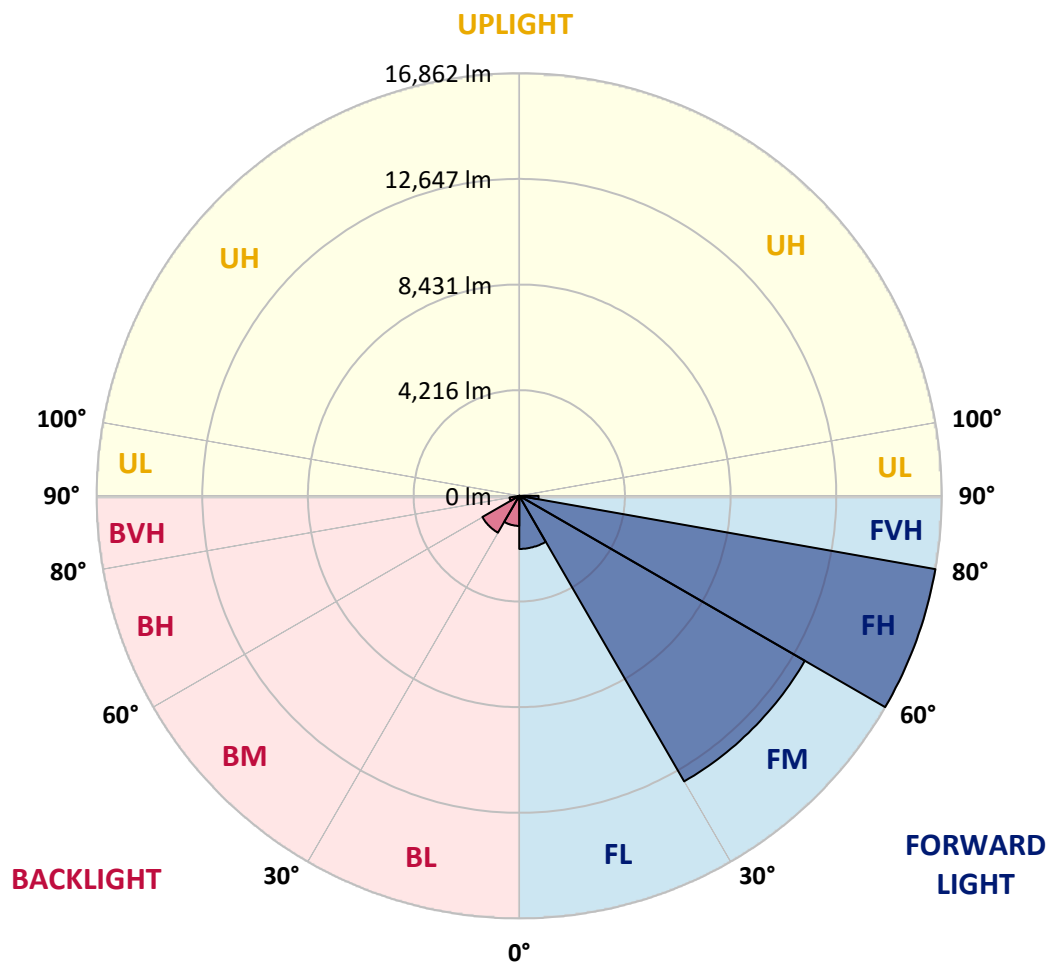
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2118.4	5.9			
FM	(30°-60°)	13157.8	36.3			
FH	(60°-80°)	16862.1	46.6			G5
FVH	(80°-90°)	771.9	2.1			G5
BL	(0°-30°)	1200.3	3.3	B3/2500		
BM	(30°-60°)	1699.0	4.7	B2/2500		
BH	(60°-80°)	394.9	1.1	B1/500		G1/500
BVH	(80°-90°)	6.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2
2.5°	5904.1	5928.9	5955.5	5960.8	6005.1	6006.9	6070.7	6118.5	6166.4	6212.5	6228.4
5°	5298.1	5338.9	5386.7	5434.6	5528.5	5565.7	5721.6	5881.1	6033.5	6178.8	6249.7
7.5°	4651.4	4697.4	4764.8	4883.5	4988.0	5060.7	5307.0	5590.5	5874.0	6141.6	6295.7
10°	4061.3	4103.8	4174.7	4300.5	4461.8	4561.0	4892.4	5285.7	5702.1	6107.9	6364.8
12.5°	3685.7	3708.7	3747.7	3882.3	4027.6	4139.3	4529.1	5016.4	5560.4	6106.1	6476.5
15°	3616.6	3623.6	3591.7	3652.0	3765.4	3873.5	4268.6	4798.4	5452.3	6134.5	6621.8
17.5°	3726.4	3722.9	3616.6	3609.5	3699.8	3788.4	4141.0	4647.8	5376.1	6200.1	6809.6
20°	3893.0	3880.6	3696.3	3662.6	3758.3	3841.6	4132.2	4591.1	5347.7	6309.9	7038.2
22.5°	4114.5	4093.2	3804.4	3768.9	3871.7	3958.5	4242.0	4646.1	5372.6	6457.0	7304.0
25°	4389.1	4357.2	3990.4	3951.4	4056.0	4142.8	4438.7	4803.8	5447.0	6636.0	7640.6
27.5°	4699.2	4653.1	4288.1	4187.1	4305.8	4396.2	4701.0	5044.7	5563.9	6825.6	8053.5
30°	4991.6	4931.3	4601.8	4435.2	4580.5	4681.5	4984.5	5331.8	5751.8	7117.9	8618.8
32.5°	5285.7	5218.4	4881.7	4683.3	4814.4	4924.2	5276.9	5726.9	6104.4	7564.5	9370.1
35°	5962.6	5891.7	5478.9	5151.1	5149.3	5211.3	5686.2	6267.4	6570.4	8186.4	10266.7
37.5°	7102.0	7061.2	6667.8	6045.9	5879.3	5810.2	6244.4	6912.4	7240.2	9042.3	11278.5
40°	8349.4	8314.0	7872.8	7309.3	7055.9	6885.8	7045.3	7810.8	8186.4	10087.7	12311.5
42.5°	9758.1	9589.8	8803.0	8634.7	8407.9	8278.6	8135.0	8918.2	9348.8	11225.3	13335.7
45°	11037.5	10754.0	9733.3	9478.2	9426.8	9458.7	9538.4	10406.7	10656.5	12577.3	14356.3
47.5°	11799.4	11576.2	10792.9	10548.4	10534.2	10745.1	11347.6	12088.2	11958.9	13755.6	15254.7
50°	12524.1	12322.1	11671.8	11732.1	11797.6	12084.7	13401.3	13817.7	13147.9	14824.1	16078.7
52.5°	13110.7	12802.3	12462.1	12800.6	13123.1	13585.5	15520.5	15369.9	13991.3	15674.7	16783.9
55°	13449.1	13309.1	13473.9	13814.1	14420.1	15171.4	17521.0	16661.6	14608.0	16450.8	17253.5
57.5°	14689.5	14414.8	14742.6	15036.8	15827.1	16877.8	19234.5	17623.8	15052.7	16931.0	17361.6
60°	16190.3	15968.8	16162.0	16651.0	17717.7	18952.8	20836.4	18408.8	15284.8	17239.3	17081.6
62.5°	18578.9	18286.5	18166.0	18713.6	20127.6	21476.0	22051.9	18952.8	15233.5	17102.9	16121.2
65°	21779.0	21476.0	20937.4	21433.5	23232.0	24183.6	23411.0	19068.0	14879.1	15998.9	13693.6
67.5°	25057.1	24837.4	24376.7	25213.1	26836.2	27142.7	24848.1	18788.0	13737.9	12972.4	9674.8
70°	27222.5	27128.6	27428.0	29277.9	30725.6	30637.0	26166.4	17283.6	10707.9	7977.3	4786.0
72.5°	25661.4	26111.5	28322.9	31677.2	33445.6	32722.6	25489.5	13271.9	6120.3	3069.0	1383.9
73°	24367.9	24943.7	27920.6	31767.5	33660.0	32867.9	24920.7	12182.2	5216.6	2422.3	1049.0
75°	16952.2	17659.3	23115.1	29586.3	32657.0	31315.7	20772.6	7456.4	2416.9	1073.8	423.5
77.5°	8230.7	8753.4	12727.9	21376.8	25397.4	24467.1	12931.7	2778.4	1091.5	671.6	194.9
80°	3072.6	3416.3	5524.9	10879.8	14677.1	15061.6	5688.0	1050.8	726.5	540.4	99.2
82.5°	804.5	896.6	2037.7	4851.6	7521.9	7872.8	1793.2	529.8	531.6	444.8	60.2
85°	256.9	294.1	636.1	2177.7	3543.9	3111.5	467.8	256.9	386.3	331.4	33.7
87.5°	31.9	40.8	202.0	512.1	781.4	434.1	72.6	76.2	164.8	184.3	19.5
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°	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2	6230.2
2.5°	6244.4	6235.5	6237.3	6191.2	6161.1	6100.8	6038.8	6010.5	5980.3	5967.9	5980.3
5°	6276.2	6260.3	6214.2	6072.5	5921.9	5726.9	5544.4	5406.2	5232.6	5184.7	5234.3
7.5°	6325.9	6294.0	6159.3	5870.5	5535.6	5163.5	4745.3	4440.5	4190.7	4029.4	4087.9
10°	6398.5	6338.3	6067.2	5576.3	4977.4	4318.2	3724.6	3262.2	2934.3	2799.7	2794.4
12.5°	6520.8	6407.4	5953.8	5193.6	4295.2	3416.3	2638.4	2137.0	1871.2	1699.3	1695.8
15°	6655.4	6488.9	5810.2	4734.7	3501.4	2447.1	1699.3	1318.3	1146.5	1091.5	1084.4
17.5°	6820.2	6582.8	5624.2	4169.4	2670.3	1621.3	1109.2	999.4	992.3	987.0	987.0
20°	7027.6	6694.4	5385.0	3522.6	1894.2	1082.7	942.7	949.8	953.3	946.2	948.0
22.5°	7268.5	6807.8	5099.7	2828.0	1281.1	905.5	901.9	910.8	914.3	910.8	912.6
25°	7548.5	6939.0	4752.4	2099.8	925.0	859.4	868.3	880.7	889.5	889.5	889.5
27.5°	7895.8	7098.4	4334.2	1465.4	799.1	811.6	836.4	859.4	871.8	875.3	875.3
30°	8347.7	7296.9	3832.7	1004.7	726.5	747.8	793.8	838.1	861.2	864.7	866.5
32.5°	8918.2	7520.2	3251.5	742.4	664.5	680.4	730.0	804.5	848.8	855.9	855.9
35°	9572.1	7778.9	2626.0	646.8	620.2	625.5	664.5	749.5	827.5	847.0	848.8
37.5°	10287.9	8034.0	1997.0	604.2	583.0	583.0	611.3	684.0	776.1	836.4	843.4
40°	10956.0	8188.2	1399.8	570.6	549.3	549.3	574.1	627.3	714.1	804.5	824.0
42.5°	11572.6	8241.3	974.6	538.7	517.4	522.7	544.0	586.5	652.1	742.4	760.2
45°	12207.0	8232.5	710.6	501.5	485.5	501.5	517.4	549.3	597.1	648.5	652.1
47.5°	12685.4	8158.1	563.5	466.0	455.4	476.7	490.8	512.1	538.7	535.1	535.1
50°	13133.7	7977.3	453.6	418.2	425.3	450.1	457.2	464.3	466.0	432.4	428.8
52.5°	13473.9	7695.6	363.2	366.8	395.1	420.0	412.9	402.2	384.5	343.8	336.7
55°	13587.3	7153.4	285.3	303.0	350.8	382.7	356.2	333.1	299.5	265.8	258.7
57.5°	13381.8	6453.4	232.1	235.7	295.9	322.5	292.4	265.8	228.6	200.2	194.9
60°	12945.9	5675.6	191.4	177.2	228.6	251.6	232.1	205.5	171.9	150.6	148.8
62.5°	12081.2	4846.3	157.7	138.2	173.7	193.1	180.7	161.2	132.9	118.7	116.9
65°	10263.1	3877.0	127.6	111.6	134.7	150.6	140.0	125.8	104.5	93.9	92.1
67.5°	7164.0	2620.7	104.5	92.1	106.3	118.7	109.9	102.8	83.3	81.5	83.3
70°	3455.3	1263.4	86.8	74.4	83.3	92.1	88.6	83.3	79.7	92.1	106.3
72.5°	990.5	423.5	69.1	62.0	67.3	72.6	76.2	74.4	86.8	111.6	129.4
73°	761.9	342.0	65.6	58.5	63.8	70.9	74.4	72.6	88.6	113.4	129.4
75°	326.0	164.8	49.6	47.8	53.2	62.0	65.6	65.6	88.6	115.2	124.0
77.5°	147.1	88.6	31.9	37.2	46.1	49.6	54.9	54.9	70.9	88.6	88.6
80°	83.3	47.8	24.8	28.4	33.7	33.7	33.7	30.1	31.9	35.4	39.0
82.5°	53.2	31.9	19.5	23.0	21.3	17.7	14.2	14.2	12.4	14.2	17.7
85°	30.1	17.7	17.7	14.2	8.9	7.1	8.9	7.1	1.8	0.0	1.8
87.5°	17.7	10.6	5.3	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)