

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: P322694

Luminaire Tested: **GAN-SA0C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322694
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-SA0C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA 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: 36548 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

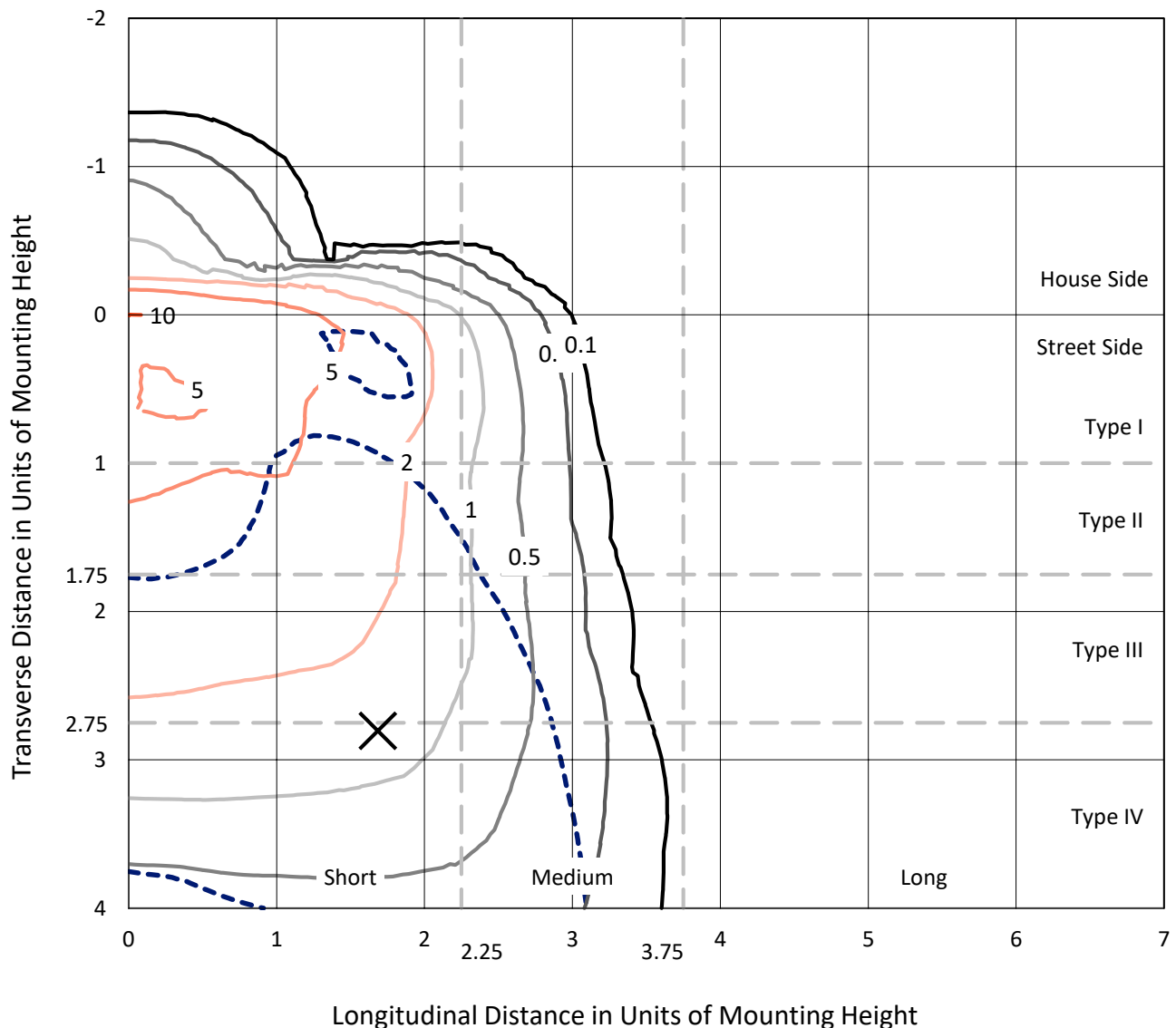
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

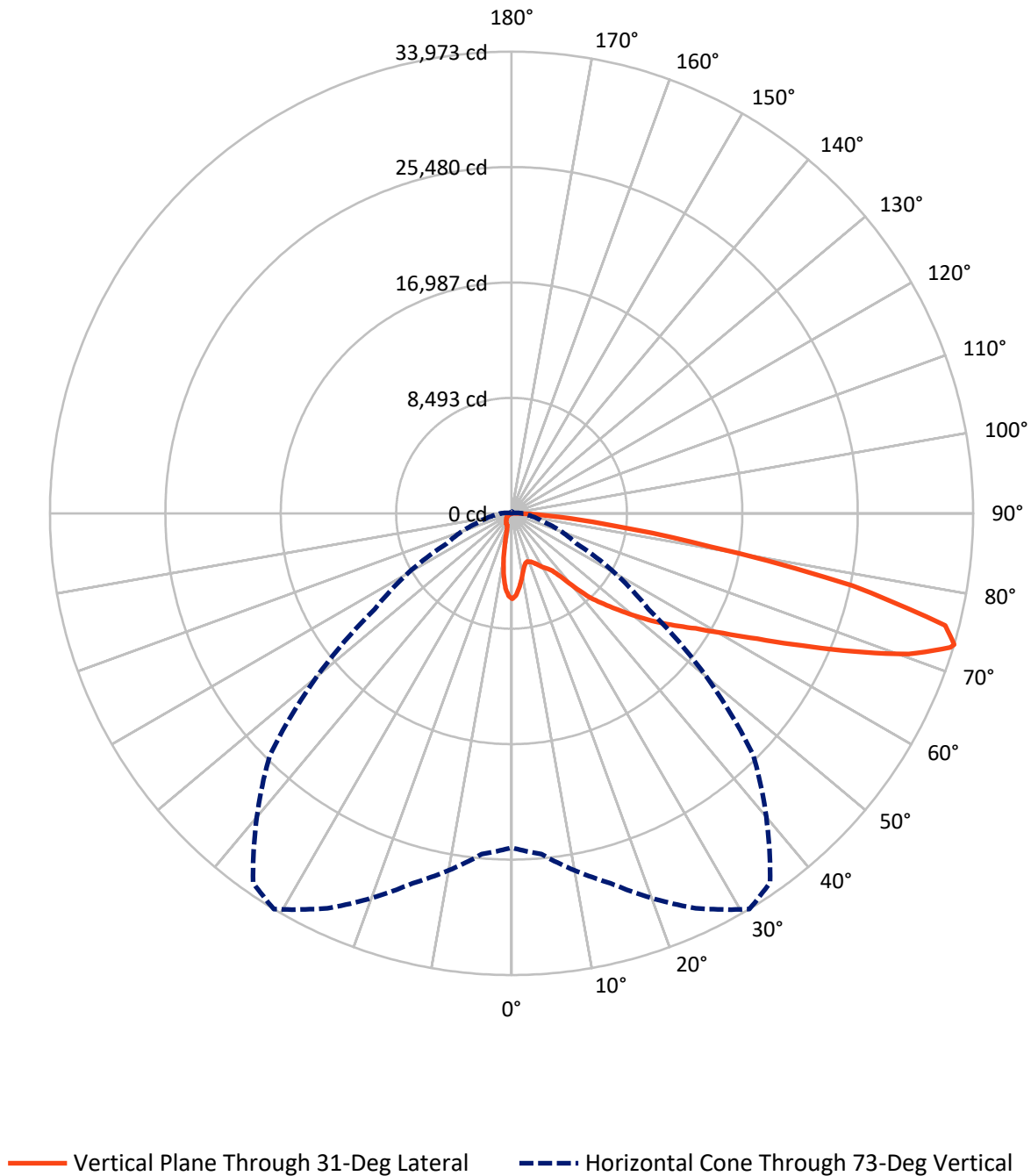
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3331.5	0.0	3331.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	33216.5	0.0	33216.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	36548.0	0.0	36548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	1.4
10°-20°	1132.1	3.1
20°-30°	1696.2	4.6
30°-40°	2698.6	7.4
40°-50°	4818.9	13.2
50°-60°	7477.6	20.5
60°-70°	9940.4	27.2
70°-80°	7477.2	20.5
80°-90°	785.7	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°	36548.0	100.0
0°-180°	36548.0	100.0

Coefficient of Utilization



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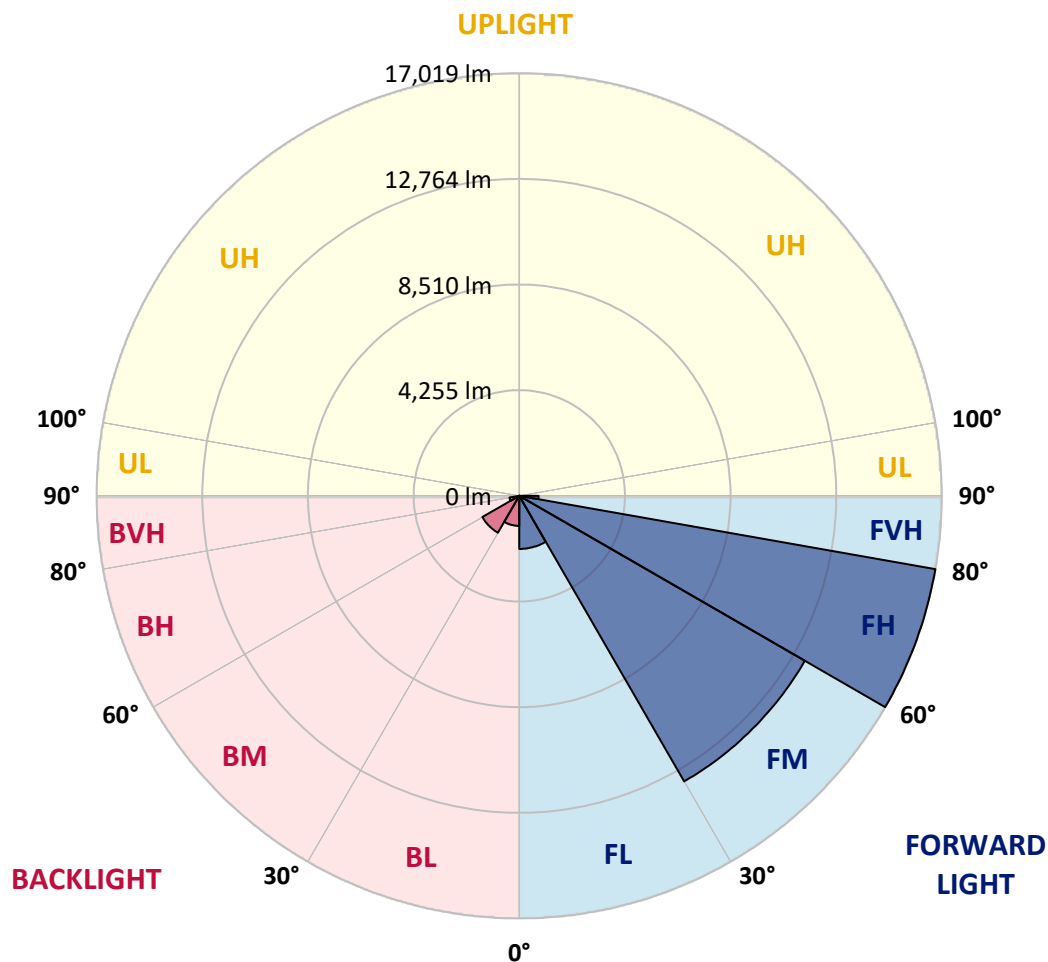
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2138.1	5.9			
FM	(30°-60°)	13280.3	36.3			
FH	(60°-80°)	17019.0	46.6			G5
FVH	(80°-90°)	779.1	2.1			G5
BL	(0°-30°)	1211.5	3.3	B3/2500		
BM	(30°-60°)	1714.8	4.7	B2/2500		
BH	(60°-80°)	398.6	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°	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2
2.5°	5959.1	5984.1	6010.9	6016.3	6061.0	6062.8	6127.2	6175.5	6223.8	6270.3	6286.4
5°	5347.4	5388.6	5436.9	5485.1	5579.9	5617.5	5774.9	5935.8	6089.6	6236.3	6307.8
7.5°	4694.7	4741.2	4809.1	4928.9	5034.5	5107.8	5356.4	5642.5	5928.7	6198.7	6354.3
10°	4099.1	4142.0	4213.6	4340.5	4503.3	4603.4	4937.9	5334.9	5755.2	6164.8	6424.1
12.5°	3720.0	3743.2	3782.6	3918.5	4065.1	4177.8	4571.3	5063.1	5612.1	6163.0	6536.8
15°	3650.2	3657.4	3625.2	3686.0	3800.4	3909.5	4308.4	4843.1	5503.0	6191.6	6683.4
17.5°	3761.1	3757.5	3650.2	3643.1	3734.3	3823.7	4179.6	4691.1	5426.1	6257.8	6873.0
20°	3929.2	3916.7	3730.7	3696.7	3793.3	3877.3	4170.6	4633.9	5397.5	6368.6	7103.7
22.5°	4152.8	4131.3	3839.8	3804.0	3907.7	3995.4	4281.5	4689.3	5422.6	6517.1	7372.0
25°	4430.0	4397.8	4027.6	3988.2	4093.7	4181.4	4480.0	4848.5	5497.7	6697.7	7711.8
27.5°	4742.9	4696.4	4328.0	4226.1	4345.9	4437.1	4744.7	5091.7	5615.7	6889.1	8128.5
30°	5038.0	4977.2	4644.6	4476.5	4623.1	4725.1	5030.9	5381.4	5805.3	7184.2	8699.0
32.5°	5334.9	5267.0	4927.2	4726.8	4859.2	4970.1	5326.0	5780.2	6161.2	7634.9	9457.3
35°	6018.1	5946.6	5529.9	5199.0	5197.2	5259.8	5739.1	6325.7	6631.5	8262.6	10362.2
37.5°	7168.1	7126.9	6729.9	6102.2	5934.0	5864.3	6302.5	6976.7	7307.6	9126.4	11383.4
40°	8427.1	8391.4	7946.0	7377.3	7121.6	6949.9	7110.8	7883.4	8262.6	10181.6	12426.1
42.5°	9848.9	9679.0	8885.0	8715.1	8486.2	8355.6	8210.7	9001.2	9435.8	11329.8	13459.8
45°	11140.2	10854.0	9823.9	9566.4	9514.5	9546.7	9627.2	10503.5	10755.7	12694.4	14489.9
47.5°	11909.2	11683.9	10893.4	10646.6	10632.3	10845.1	11453.2	12200.7	12070.2	13883.7	15396.7
50°	12640.7	12436.8	11780.5	11841.3	11907.4	12197.2	13526.0	13946.3	13270.2	14962.1	16228.3
52.5°	13232.7	12921.5	12578.1	12919.7	13245.2	13712.0	15665.0	15512.9	14121.5	15820.5	16940.1
55°	13574.3	13433.0	13599.3	13942.7	14554.3	15312.6	17684.1	16816.7	14743.9	16603.9	17414.0
57.5°	14826.2	14549.0	14879.8	15176.7	15974.4	17034.9	19413.5	17787.8	15192.8	17088.6	17523.1
60°	16341.0	16117.4	16312.4	16806.0	17882.6	19129.2	21030.3	18580.1	15427.1	17399.7	17240.6
62.5°	18751.8	18456.7	18335.1	18887.7	20314.9	21675.9	22257.1	19129.2	15375.2	17262.0	16271.2
65°	21981.7	21675.9	21132.2	21633.0	23448.2	24408.6	23628.9	19245.4	15017.5	16147.8	13821.1
67.5°	25290.3	25068.6	24603.6	25447.7	27085.9	27395.3	25079.3	18962.8	13865.8	13093.2	9764.9
70°	27475.8	27381.0	27683.3	29550.4	31011.6	30922.1	26409.9	17444.5	10807.5	8051.6	4830.6
72.5°	25900.2	26354.5	28586.4	31972.0	33756.8	33027.1	25726.7	13395.4	6177.3	3097.6	1396.8
73°	24594.6	25175.9	28180.5	32063.2	33973.2	33173.8	25152.6	12295.5	5265.2	2444.8	1058.8
75°	17110.0	17823.6	23330.2	29861.6	32961.0	31607.1	20965.9	7525.8	2439.4	1083.8	427.4
77.5°	8307.3	8834.9	12846.4	21575.8	25633.7	24694.8	13052.0	2804.3	1101.7	677.8	196.7
80°	3101.2	3448.1	5576.4	10981.0	14813.7	15201.7	5740.9	1060.5	733.3	545.5	100.2
82.5°	812.0	905.0	2056.7	4896.8	7591.9	7946.0	1809.9	534.7	536.5	448.9	60.8
85°	259.3	296.9	642.1	2198.0	3576.9	3140.5	472.1	259.3	389.9	334.4	34.0
87.5°	32.2	41.1	203.9	516.9	788.7	438.2	73.3	76.9	166.3	186.0	19.7
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°	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2	6288.2
2.5°	6302.5	6293.5	6295.3	6248.8	6218.4	6157.6	6095.0	6066.4	6036.0	6023.5	6036.0
5°	6334.7	6318.6	6272.1	6129.0	5977.0	5780.2	5596.0	5456.5	5281.3	5233.0	5283.1
7.5°	6384.7	6352.5	6216.6	5925.1	5587.1	5211.5	4789.4	4481.8	4229.7	4066.9	4125.9
10°	6458.1	6397.3	6123.6	5628.2	5023.7	4358.4	3759.3	3292.5	2961.7	2825.7	2820.4
12.5°	6581.5	6467.0	6009.2	5241.9	4335.2	3448.1	2663.0	2156.9	1888.6	1715.1	1711.5
15°	6717.4	6549.3	5864.3	4778.7	3534.0	2469.8	1715.1	1330.6	1157.1	1101.7	1094.5
17.5°	6883.7	6644.1	5676.5	4208.2	2695.2	1636.4	1119.6	1008.7	1001.5	996.2	996.2
20°	7093.0	6756.7	5435.1	3555.4	1911.8	1092.7	951.5	958.6	962.2	955.0	956.8
22.5°	7336.2	6871.2	5147.1	2854.4	1293.0	913.9	910.3	919.3	922.8	919.3	921.0
25°	7618.8	7003.5	4796.6	2119.3	933.6	867.4	876.3	888.9	897.8	897.8	897.8
27.5°	7969.3	7164.5	4374.5	1479.0	806.6	819.1	844.1	867.4	879.9	883.5	883.5
30°	8425.3	7364.8	3868.4	1014.0	733.3	754.7	801.2	845.9	869.2	872.8	874.5
32.5°	9001.2	7590.1	3281.8	749.4	670.7	686.8	736.8	812.0	856.7	863.8	863.8
35°	9661.2	7851.3	2650.5	652.8	626.0	631.3	670.7	756.5	835.2	854.9	856.7
37.5°	10383.7	8108.8	2015.6	609.9	588.4	588.4	617.0	690.3	783.3	844.1	851.3
40°	11057.9	8264.4	1412.9	575.9	554.4	554.4	579.5	633.1	720.7	812.0	831.6
42.5°	11680.3	8318.0	983.6	543.7	522.2	527.6	549.1	592.0	658.1	749.4	767.2
45°	12320.6	8309.1	717.2	506.1	490.0	506.1	522.2	554.4	602.7	654.6	658.1
47.5°	12803.4	8234.0	568.7	470.4	459.6	481.1	495.4	516.9	543.7	540.1	540.1
50°	13255.9	8051.6	457.8	422.1	429.2	454.3	461.4	468.6	470.4	436.4	432.8
52.5°	13599.3	7767.2	366.6	370.2	398.8	423.9	416.7	406.0	388.1	347.0	339.8
55°	13713.8	7219.9	287.9	305.8	354.1	386.3	359.5	336.2	302.2	268.3	261.1
57.5°	13506.3	6513.5	234.3	237.9	298.7	325.5	295.1	268.3	230.7	202.1	196.7
60°	13066.3	5728.4	193.2	178.8	230.7	254.0	234.3	207.5	173.5	152.0	150.2
62.5°	12193.6	4891.4	159.2	139.5	175.3	194.9	182.4	162.7	134.1	119.8	118.0
65°	10358.6	3913.1	128.8	112.7	135.9	152.0	141.3	127.0	105.5	94.8	93.0
67.5°	7230.7	2645.1	105.5	93.0	107.3	119.8	110.9	103.7	84.1	82.3	84.1
70°	3487.5	1275.2	87.6	75.1	84.1	93.0	89.4	84.1	80.5	93.0	107.3
72.5°	999.7	427.4	69.7	62.6	68.0	73.3	76.9	75.1	87.6	112.7	130.6
73°	769.0	345.2	66.2	59.0	64.4	71.5	75.1	73.3	89.4	114.5	130.6
75°	329.1	166.3	50.1	48.3	53.7	62.6	66.2	66.2	89.4	116.2	125.2
77.5°	148.4	89.4	32.2	37.6	46.5	50.1	55.4	55.4	71.5	89.4	89.4
80°	84.1	48.3	25.0	28.6	34.0	34.0	34.0	30.4	32.2	35.8	39.3
82.5°	53.7	32.2	19.7	23.2	21.5	17.9	14.3	14.3	12.5	14.3	17.9
85°	30.4	17.9	17.9	14.3	8.9	7.2	8.9	7.2	1.8	0.0	1.8
87.5°	17.9	10.7	5.4	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)