

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: P322734

Luminaire Tested: **GAN-SA0C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322734
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-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 39507 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

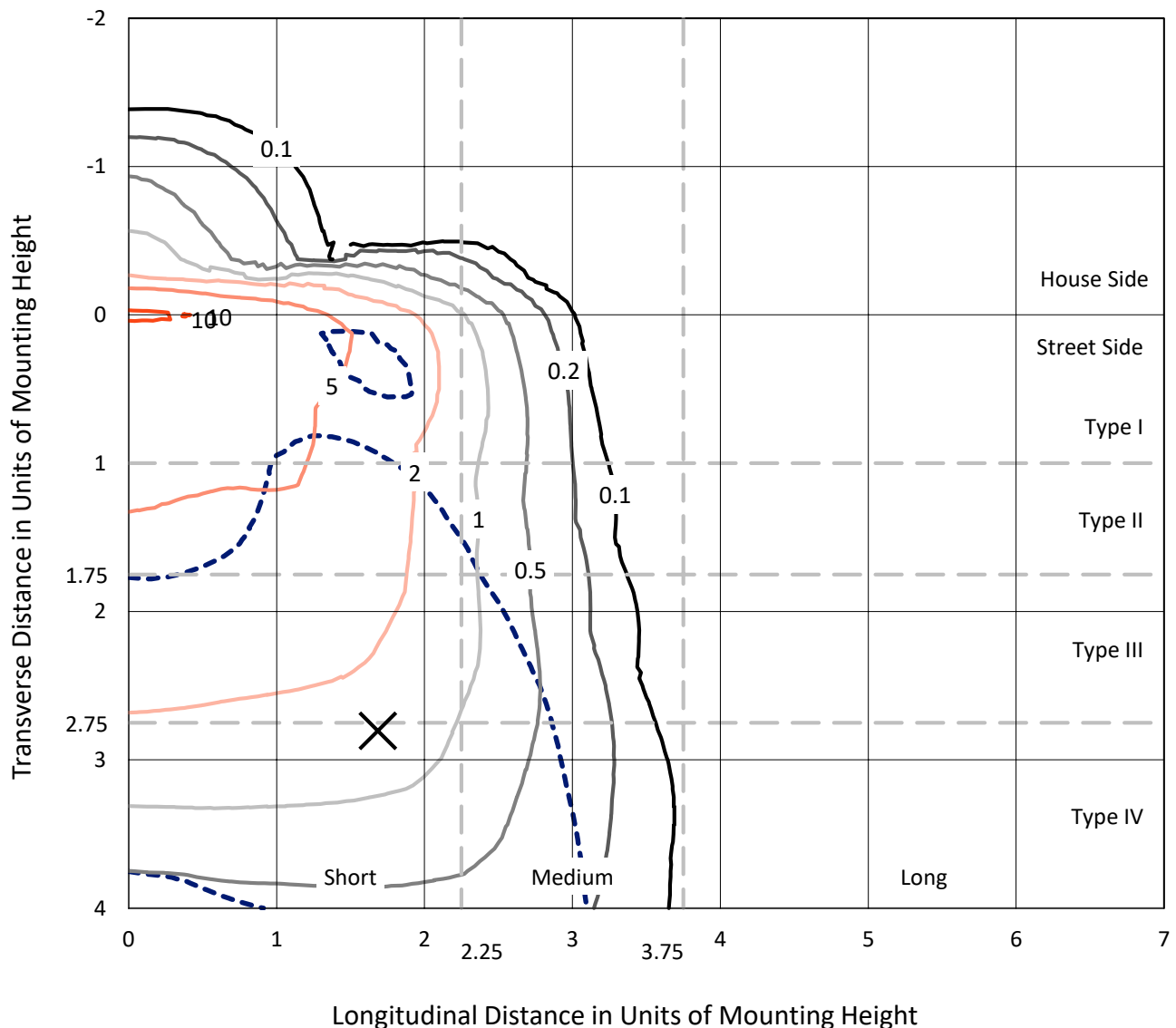
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

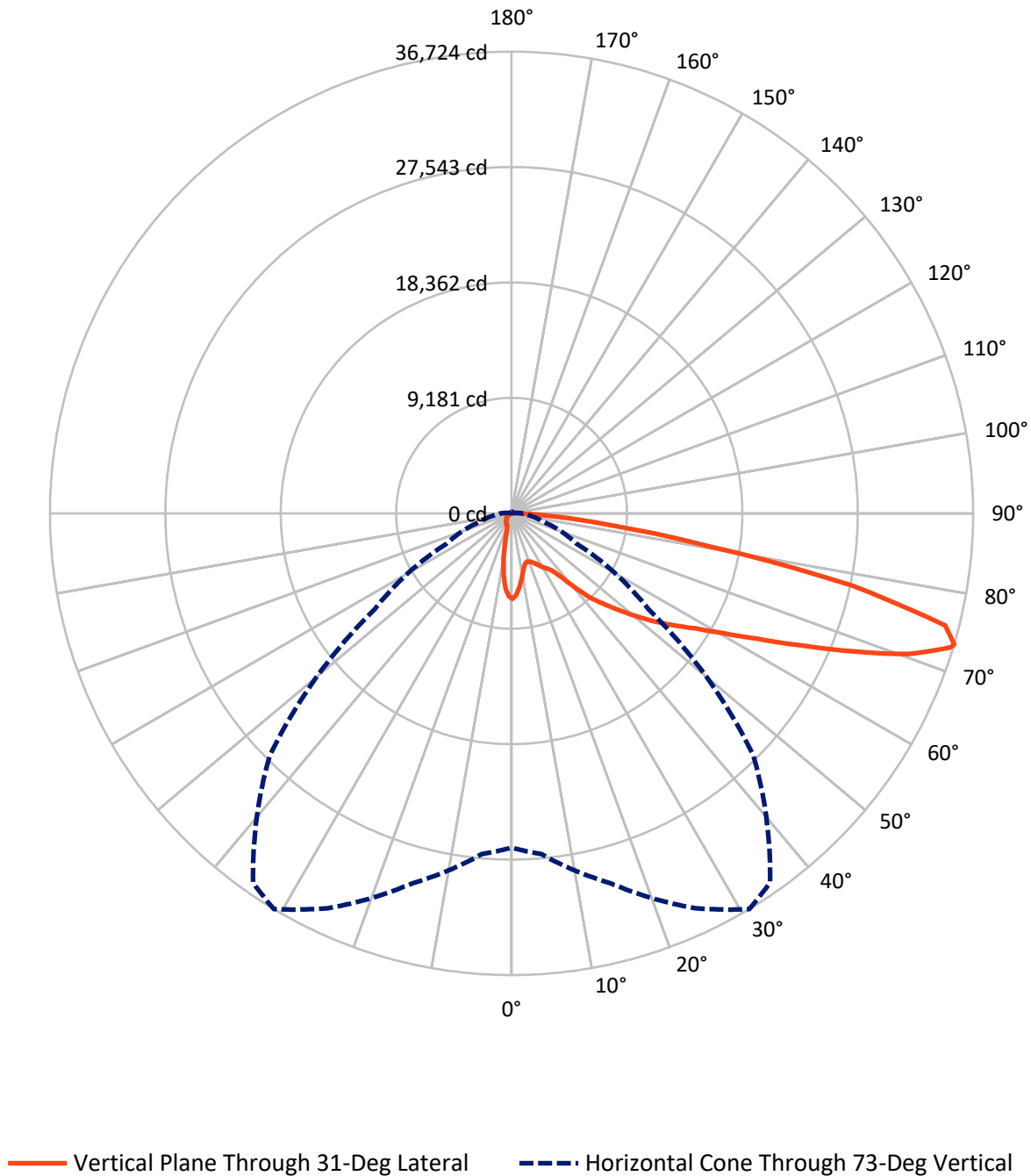
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	3601.2	0.0	3601.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	35905.8	0.0	35905.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	39507.0	0.0	39507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.6	1.4
10°-20°	1223.7	3.1
20°-30°	1833.5	4.6
30°-40°	2917.1	7.4
40°-50°	5209.1	13.2
50°-60°	8083.0	20.5
60°-70°	10745.2	27.2
70°-80°	8082.6	20.5
80°-90°	849.3	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°	39507.0	100.0
0°-180°	39507.0	100.0

Coefficient of Utilization



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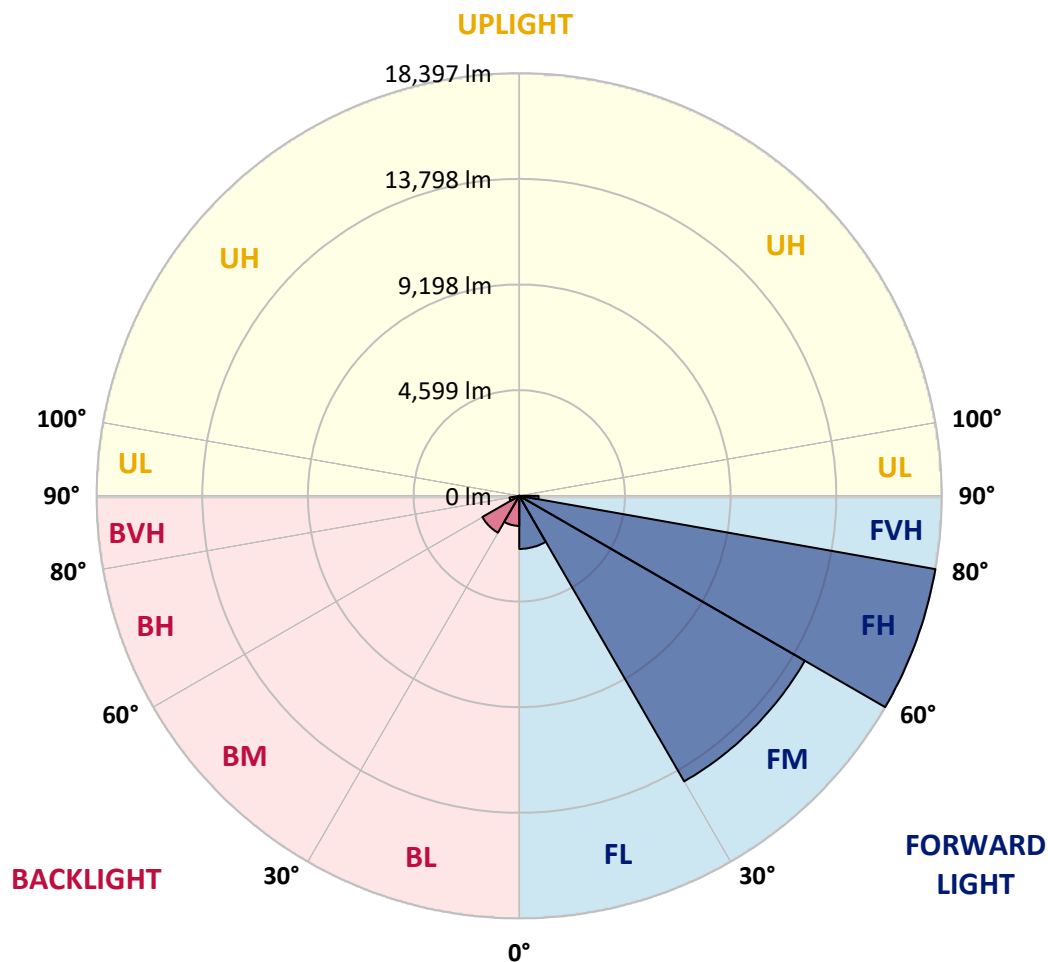
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2311.2	5.9			
FM	(30°-60°)	14355.5	36.3			
FH	(60°-80°)	18396.9	46.6			G5
FVH	(80°-90°)	842.2	2.1			G5
BL	(0°-30°)	1309.6	3.3	B3/2500		
BM	(30°-60°)	1853.6	4.7	B2/2500		
BH	(60°-80°)	430.9	1.1	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3
2.5°	6441.5	6468.6	6497.6	6503.4	6551.7	6553.7	6623.3	6675.5	6727.7	6777.9	6795.3
5°	5780.4	5824.8	5877.0	5929.2	6031.7	6072.3	6242.4	6416.4	6582.7	6741.2	6818.5
7.5°	5074.7	5125.0	5198.5	5328.0	5442.1	5521.3	5790.0	6099.4	6408.7	6700.6	6868.8
10°	4431.0	4477.4	4554.7	4692.0	4867.9	4976.2	5337.7	5766.8	6221.2	6663.9	6944.2
12.5°	4021.1	4046.3	4088.8	4235.7	4394.2	4516.0	4941.4	5473.0	6066.5	6661.9	7066.0
15°	3945.7	3953.5	3918.7	3984.4	4108.1	4226.1	4657.2	5235.2	5948.6	6692.9	7224.5
17.5°	4065.6	4061.7	3945.7	3938.0	4036.6	4133.3	4518.0	5070.9	5865.4	6764.4	7429.4
20°	4247.3	4233.8	4032.7	3996.0	4100.4	4191.3	4508.3	5009.0	5834.5	6884.3	7678.8
22.5°	4489.0	4465.8	4150.7	4112.0	4224.1	4318.9	4628.2	5068.9	5861.6	7044.7	7968.8
25°	4788.6	4753.8	4353.6	4311.1	4425.2	4519.9	4842.8	5241.0	5942.8	7240.0	8336.1
27.5°	5126.9	5076.7	4678.4	4568.2	4697.8	4796.4	5128.9	5503.9	6070.4	7446.8	8786.6
30°	5445.9	5380.2	5020.6	4838.9	4997.4	5107.6	5438.2	5817.1	6275.3	7765.8	9403.3
32.5°	5766.8	5693.4	5326.1	5109.5	5252.6	5372.5	5757.2	6248.2	6660.0	8253.0	10223.0
35°	6505.3	6428.0	5977.6	5619.9	5618.0	5685.6	6203.8	6837.9	7168.4	8931.6	11201.2
37.5°	7748.4	7703.9	7274.8	6596.2	6414.5	6339.1	6812.7	7541.6	7899.2	9865.3	12305.1
40°	9109.4	9070.7	8589.4	7974.6	7698.1	7512.6	7686.5	8521.7	8931.6	11005.9	13432.1
42.5°	10646.3	10462.7	9604.3	9420.7	9173.2	9032.1	8875.5	9730.0	10199.8	12247.1	14549.5
45°	12042.1	11732.8	10619.3	10340.9	10284.8	10319.6	10406.6	11353.9	11626.5	13722.1	15663.1
47.5°	12873.4	12629.8	11775.3	11508.6	11493.1	11723.1	12380.4	13188.5	13047.4	15007.7	16643.2
50°	13664.1	13443.7	12734.2	12800.0	12871.5	13184.7	14621.1	15075.4	14344.6	16173.5	17542.2
52.5°	14304.0	13967.6	13596.5	13965.7	14317.6	14822.1	16933.2	16768.9	15264.8	17101.4	18311.6
55°	14673.3	14520.5	14700.3	15071.5	15732.7	16552.4	19115.8	18178.2	15937.6	17948.2	18823.9
57.5°	16026.5	15726.9	16084.5	16405.4	17267.7	18414.1	20985.3	19228.0	16422.8	18472.1	18941.9
60°	17664.0	17422.3	17633.1	18166.6	19330.4	20677.9	22732.9	20084.4	16676.1	18808.5	18636.4
62.5°	20270.0	19951.0	19819.5	20416.9	21959.6	23430.8	24059.1	20677.9	16620.0	18659.6	17588.6
65°	23761.4	23430.8	22843.1	23384.4	25346.7	26384.8	25541.9	20803.6	16233.4	17455.2	14940.1
67.5°	27337.9	27098.2	26595.5	27508.0	29278.9	29613.3	27109.8	20498.1	14988.4	14153.2	10555.5
70°	29700.3	29597.9	29924.6	31942.9	33522.3	33425.7	28548.1	18856.8	11682.5	8703.4	5221.7
72.5°	27997.1	28488.2	30900.9	34560.5	36489.8	35701.1	27809.6	14479.9	6677.4	3348.4	1509.9
73°	26585.9	27214.2	30462.0	34659.1	36723.8	35859.6	27189.0	13291.0	5691.4	2642.7	1144.5
75°	18495.3	19266.6	25219.1	32279.3	35629.6	34166.1	22663.3	8135.1	2636.9	1171.5	462.0
77.5°	8979.9	9550.2	13886.4	23322.6	27709.1	26694.1	14108.8	3031.3	1190.9	732.7	212.7
80°	3352.2	3727.3	6027.8	11870.1	16013.0	16432.5	6205.7	1146.4	792.6	589.6	108.3
82.5°	877.7	978.2	2223.2	5293.2	8206.6	8589.4	1956.4	578.0	580.0	485.2	65.7
85°	280.3	320.9	694.0	2375.9	3866.5	3394.8	510.4	280.3	421.4	361.5	36.7
87.5°	34.8	44.5	220.4	558.7	852.6	473.6	79.3	83.1	179.8	201.1	21.3
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°	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3	6797.3
2.5°	6812.7	6803.1	6805.0	6754.7	6721.9	6656.1	6588.5	6557.5	6524.7	6511.1	6524.7
5°	6847.5	6830.1	6779.9	6625.2	6460.9	6248.2	6049.1	5898.3	5708.8	5656.7	5710.8
7.5°	6901.7	6866.9	6719.9	6404.8	6039.4	5633.5	5177.2	4844.7	4572.1	4396.2	4460.0
10°	6980.9	6915.2	6619.4	6083.9	5430.5	4711.3	4063.7	3559.1	3201.4	3054.5	3048.7
12.5°	7114.3	6990.6	6495.7	5666.3	4686.2	3727.3	2878.6	2331.5	2041.5	1854.0	1850.1
15°	7261.2	7079.5	6339.1	5165.6	3820.1	2669.8	1854.0	1438.3	1250.8	1190.9	1183.1
17.5°	7441.0	7182.0	6136.1	4548.9	2913.4	1768.9	1210.2	1090.3	1082.6	1076.8	1076.8
20°	7667.2	7303.8	5875.1	3843.3	2066.6	1181.2	1028.5	1036.2	1040.1	1032.3	1034.3
22.5°	7930.1	7427.5	5563.9	3085.4	1397.7	987.9	984.0	993.7	997.6	993.7	995.6
25°	8235.6	7570.6	5184.9	2290.9	1009.1	937.6	947.3	960.8	970.5	970.5	970.5
27.5°	8614.5	7744.5	4728.7	1598.8	871.9	885.4	912.5	937.6	951.2	955.0	955.0
30°	9107.5	7961.1	4181.6	1096.1	792.6	815.8	866.1	914.4	939.6	943.4	945.4
32.5°	9730.0	8204.7	3547.5	810.0	725.0	742.4	796.5	877.7	926.0	933.8	933.8
35°	10443.3	8486.9	2865.1	705.6	676.6	682.4	725.0	817.8	902.8	924.1	926.0
37.5°	11224.4	8765.3	2178.8	659.2	636.0	636.0	667.0	746.2	846.8	912.5	920.2
40°	11953.2	8933.5	1527.3	622.5	599.3	599.3	626.4	684.4	779.1	877.7	899.0
42.5°	12626.0	8991.5	1063.3	587.7	564.5	570.3	593.5	639.9	711.4	810.0	829.4
45°	13318.1	8981.8	775.2	547.1	529.7	547.1	564.5	599.3	651.5	707.6	711.4
47.5°	13840.0	8900.6	614.8	508.4	496.8	520.0	535.5	558.7	587.7	583.8	583.8
50°	14329.2	8703.4	494.9	456.2	464.0	491.0	498.8	506.5	508.4	471.7	467.8
52.5°	14700.3	8396.0	396.3	400.2	431.1	458.2	450.4	438.8	419.5	375.0	367.3
55°	14824.1	7804.5	311.3	330.6	382.8	417.6	388.6	363.4	326.7	290.0	282.3
57.5°	14599.8	7040.8	253.3	257.1	322.9	351.8	319.0	290.0	249.4	218.5	212.7
60°	14124.2	6192.2	208.8	193.3	249.4	274.5	253.3	224.3	187.5	164.3	162.4
62.5°	13180.8	5287.4	172.1	150.8	189.5	210.7	197.2	175.9	145.0	129.5	127.6
65°	11197.3	4229.9	139.2	121.8	146.9	164.3	152.7	137.3	114.1	102.5	100.5
67.5°	7816.1	2859.3	114.1	100.5	116.0	129.5	119.9	112.1	90.9	88.9	90.9
70°	3769.8	1378.4	94.7	81.2	90.9	100.5	96.7	90.9	87.0	100.5	116.0
72.5°	1080.7	462.0	75.4	67.7	73.5	79.3	83.1	81.2	94.7	121.8	141.1
73°	831.3	373.1	71.5	63.8	69.6	77.3	81.2	79.3	96.7	123.7	141.1
75°	355.7	179.8	54.1	52.2	58.0	67.7	71.5	71.5	96.7	125.7	135.3
77.5°	160.5	96.7	34.8	40.6	50.3	54.1	59.9	59.9	77.3	96.7	96.7
80°	90.9	52.2	27.1	30.9	36.7	36.7	36.7	32.9	34.8	38.7	42.5
82.5°	58.0	34.8	21.3	25.1	23.2	19.3	15.5	15.5	13.5	15.5	19.3
85°	32.9	19.3	19.3	15.5	9.7	7.7	9.7	7.7	1.9	0.0	1.9
87.5°	19.3	11.6	5.8	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)