

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: P322374

Luminaire Tested: **GAN-SA0C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37504 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - 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



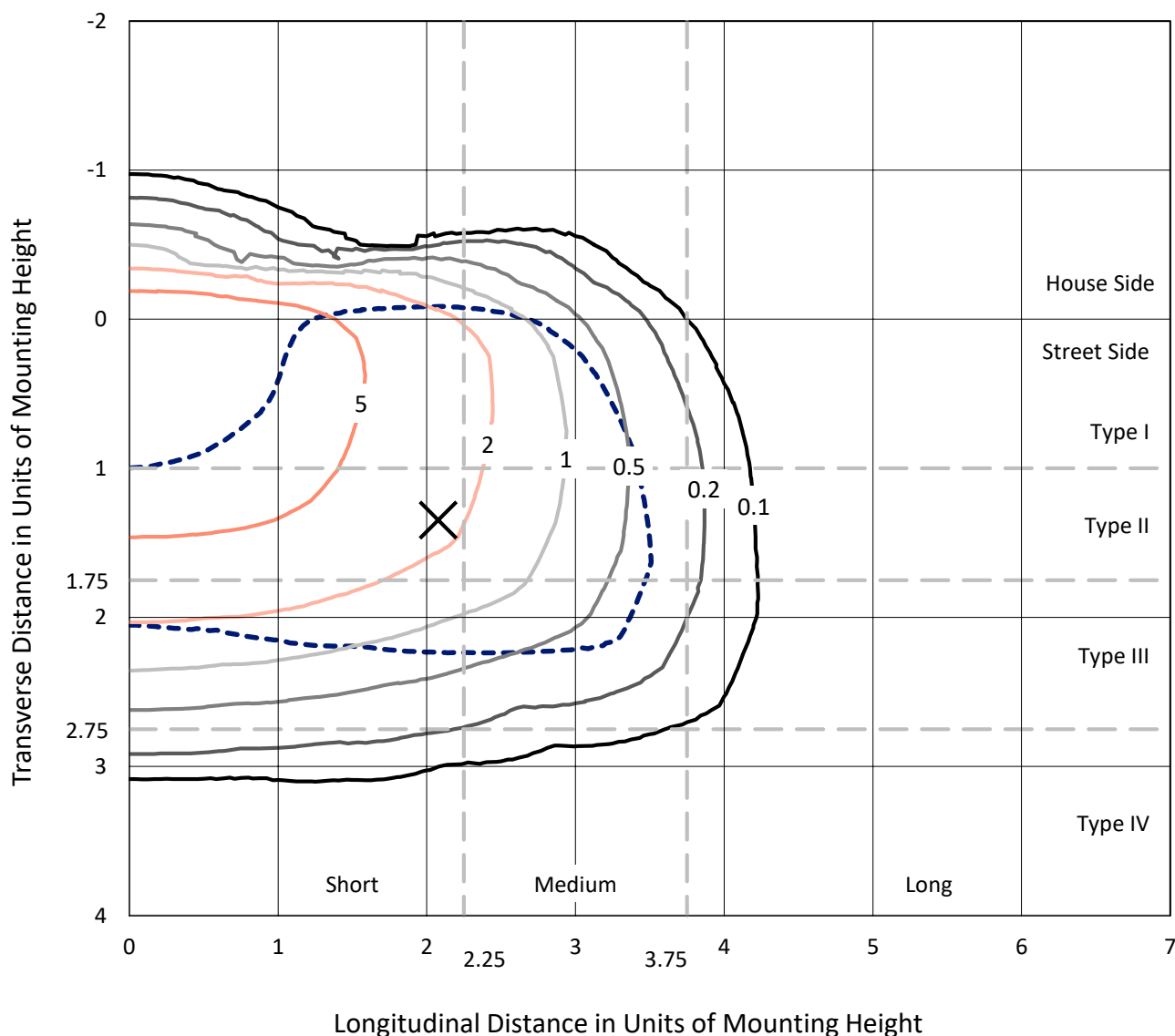
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

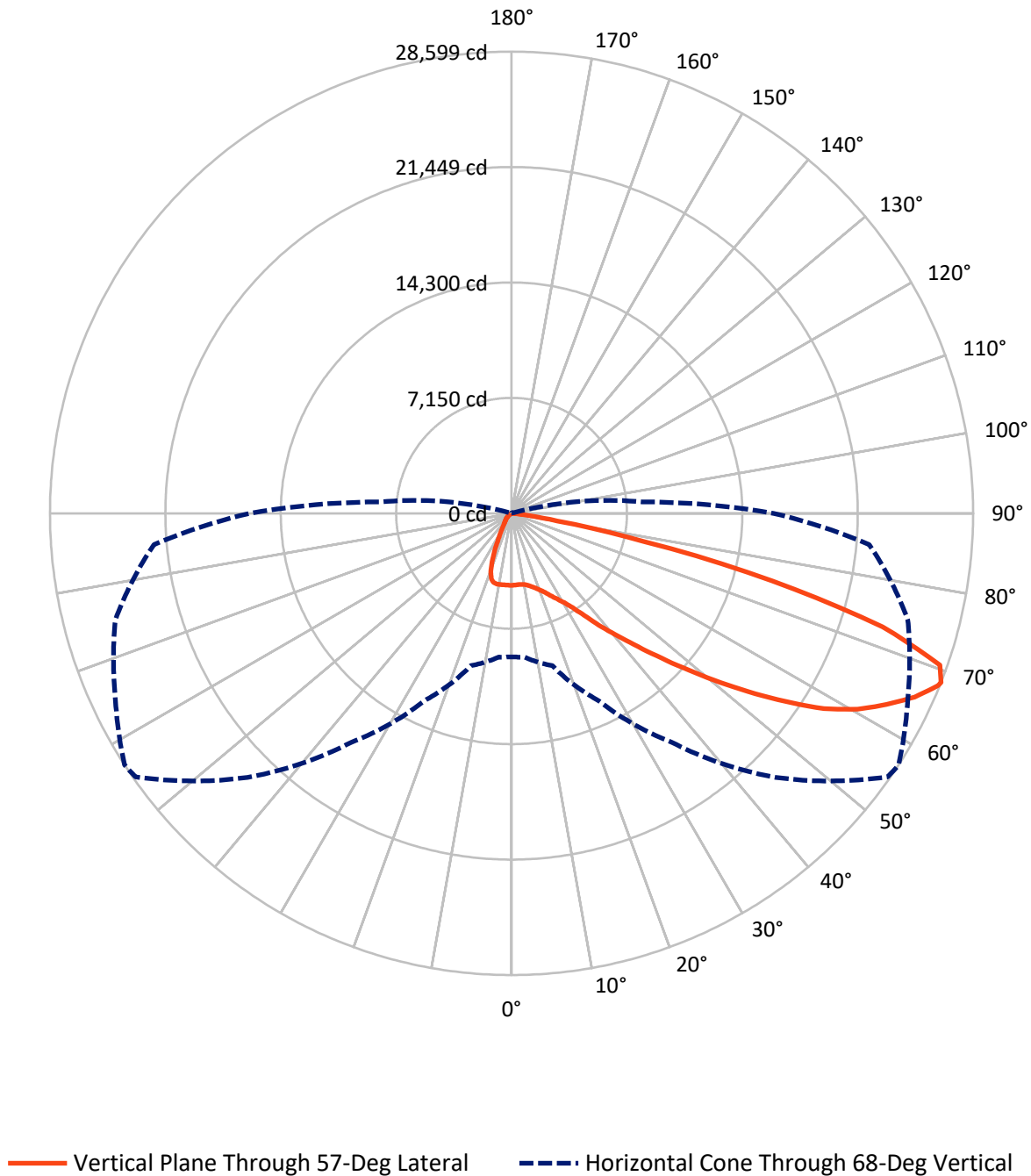


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4112.5	0.0	4112.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	33391.5	0.0	33391.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	37504.0	0.0	37504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.1	1.1
10°-20°	1155.7	3.1
20°-30°	1993.7	5.3
30°-40°	3441.0	9.2
40°-50°	5885.9	15.7
50°-60°	9417.0	25.1
60°-70°	10880.3	29.0
70°-80°	4157.5	11.1
80°-90°	155.9	0.4
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°	37504.0	100.0
0°-180°	37504.0	100.0

Coefficient of Utilization



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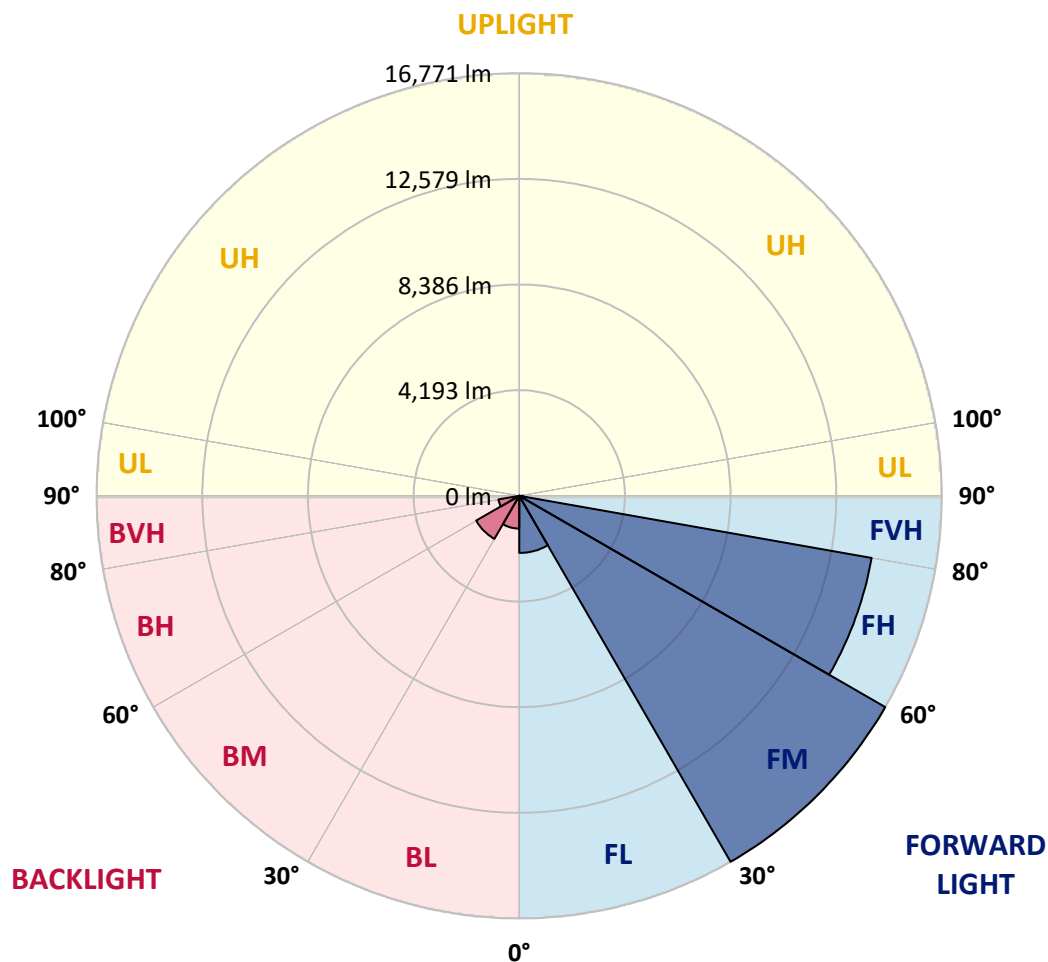
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2266.8	6.0			
FM	(30°-60°)	16771.5	44.7			
FH	(60°-80°)	14200.2	37.9			G5
FVH	(80°-90°)	153.0	0.4			G2/225
BL	(0°-30°)	1299.7	3.5	B3/2500		
BM	(30°-60°)	1972.5	5.3	B2/2500		
BH	(60°-80°)	837.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5
2.5°	4351.8	4371.3	4385.5	4394.4	4405.0	4428.1	4435.2	4445.8	4451.1	4451.1	4463.6
5°	4179.8	4201.1	4231.2	4256.1	4305.7	4369.6	4415.7	4433.4	4465.3	4493.7	4509.7
7.5°	4020.2	4045.0	4080.5	4139.0	4224.2	4327.0	4422.8	4447.6	4509.7	4570.0	4600.1
10°	3917.4	3936.9	3983.0	4066.3	4178.0	4321.7	4456.5	4486.6	4593.0	4694.1	4750.8
12.5°	3881.9	3899.6	3947.5	4041.5	4179.8	4348.3	4534.5	4578.8	4734.9	4882.1	4961.9
15°	3933.3	3936.9	3988.3	4077.0	4213.5	4413.9	4663.9	4717.1	4914.0	5105.5	5204.8
17.5°	4131.9	4116.0	4142.6	4181.6	4289.8	4500.8	4800.5	4880.3	5142.8	5368.0	5462.0
20°	4628.5	4628.5	4568.2	4461.8	4463.6	4635.6	4984.9	5075.4	5396.3	5657.0	5742.2
22.5°	5477.9	5462.0	5341.4	5080.7	4841.3	4867.9	5210.1	5327.2	5701.4	5979.8	6008.2
25°	6499.4	6479.9	6293.7	5926.6	5511.6	5243.8	5515.2	5649.9	6064.9	6311.4	6252.9
27.5°	7581.1	7565.2	7380.7	6925.0	6334.5	5843.2	5878.7	6006.4	6435.5	6678.5	6492.3
30°	8629.2	8634.5	8451.9	7983.7	7315.1	6607.6	6339.8	6414.3	6795.5	7042.0	6776.0
32.5°	9625.8	9632.9	9475.1	8951.9	8327.7	7496.0	6978.2	6958.7	7214.0	7457.0	7152.0
35°	10514.3	10532.0	10423.8	10017.7	9356.3	8485.5	7806.3	7760.2	7808.1	8083.0	7728.3
37.5°	11370.8	11381.5	11299.9	10957.6	10404.3	9572.6	8852.6	8787.0	8684.2	8895.2	8489.1
40°	12308.9	12282.3	12188.3	11878.0	11402.7	10773.2	9976.9	9863.5	9684.3	9872.3	9489.3
42.5°	13181.4	13151.3	13167.2	12816.1	12415.3	12007.4	11287.5	11092.4	10987.8	11204.1	10716.4
45°	14272.0	14256.1	14309.3	14004.3	13679.7	13383.6	12789.5	12576.7	12530.6	12784.2	12200.7
47.5°	15348.5	15387.5	15552.4	15422.9	15291.7	15031.0	14380.2	14284.4	14312.8	14619.6	13766.6
50°	16245.8	16291.9	16744.1	16893.1	17082.8	16930.3	16277.7	16219.2	16330.9	16607.6	15451.3
52.5°	16894.8	16988.8	17551.0	18237.3	18928.9	19031.7	18380.9	18327.7	18478.5	18521.0	16753.0
55°	17345.3	17428.6	18065.3	19320.8	20728.9	21172.2	20767.9	20562.2	20533.8	20113.5	18122.0
57.5°	17425.1	17416.2	18331.3	20021.3	22140.5	23284.3	23028.9	22826.7	22245.1	21585.4	19691.4
60°	16974.6	17026.1	18088.3	20264.2	23027.1	24882.1	24901.6	24639.1	23732.9	23016.5	21213.0
62.5°	15587.9	15797.1	16870.0	19627.6	23016.5	25525.8	26274.2	26073.8	24990.2	24188.7	22755.8
65°	13339.2	13413.7	14437.0	17446.4	21461.3	25256.3	27510.2	27435.7	26123.4	25327.2	23548.5
67.5°	9741.1	9579.7	10654.4	13738.3	18169.9	23685.1	28396.9	28490.9	26997.7	25561.3	22704.4
68°	8889.9	8937.8	9774.8	12821.4	17308.0	23130.0	28455.4	28599.0	27084.6	25408.8	22243.3
70°	5298.8	5391.0	6137.6	8827.8	13167.2	19989.4	27824.1	28152.2	26566.8	23835.8	19239.2
72.5°	1353.1	1463.0	2168.8	3951.1	7520.8	14084.1	23488.2	24043.3	23066.1	19336.8	12988.1
75°	556.8	585.2	775.0	1301.6	2801.9	6345.1	15481.5	16669.6	15990.4	11576.5	5869.8
77.5°	384.8	404.3	498.3	721.8	1213.0	2151.1	7590.0	8448.3	7611.3	3951.1	1280.4
80°	276.6	292.6	356.4	480.6	696.9	767.9	2473.8	2860.4	2271.7	867.2	317.4
82.5°	164.9	177.3	266.0	342.3	423.8	367.1	615.4	698.7	657.9	430.9	141.9
85°	81.6	95.8	179.1	244.7	228.8	154.3	188.0	209.3	258.9	262.5	76.3
87.5°	5.3	10.6	104.6	147.2	63.8	35.5	55.0	67.4	92.2	129.5	31.9
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°	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5	4456.5
2.5°	4468.9	4470.7	4458.2	4452.9	4456.5	4435.2	4426.3	4429.9	4429.9	4435.2	4426.3
5°	4513.2	4513.2	4491.9	4463.6	4447.6	4406.8	4380.2	4373.1	4367.8	4364.2	4357.2
7.5°	4609.0	4598.3	4561.1	4499.0	4445.8	4357.2	4289.8	4254.3	4236.6	4229.5	4224.2
10°	4763.3	4743.7	4681.7	4566.4	4444.1	4286.2	4139.0	4034.4	3947.5	3912.0	3890.8
12.5°	4970.7	4942.4	4837.7	4646.2	4431.6	4140.8	3821.6	3514.8	3229.3	3112.3	3053.7
15°	5210.1	5169.4	5004.4	4713.6	4358.9	3812.7	3119.3	2582.0	2186.6	2037.6	1973.8
17.5°	5453.1	5399.9	5149.8	4756.2	4140.8	3133.5	2188.3	1652.8	1388.5	1317.6	1292.8
20°	5697.8	5619.8	5275.8	4724.2	3647.8	2259.3	1443.5	1207.7	1131.4	1110.1	1103.0
22.5°	5930.1	5809.5	5389.3	4600.1	2888.8	1516.2	1142.0	1067.6	1042.7	1030.3	1026.8
25°	6132.3	5963.8	5488.6	4217.1	2044.7	1145.6	1028.6	1003.7	971.8	948.7	950.5
27.5°	6322.0	6118.1	5548.9	3585.7	1363.7	978.9	952.3	918.6	860.1	826.4	826.4
30°	6550.8	6323.8	5593.2	2759.4	1003.7	865.4	844.1	792.7	712.9	668.6	668.6
32.5°	6894.8	6635.9	5564.8	1936.5	831.7	760.8	711.1	640.2	553.3	510.7	509.0
35°	7421.5	7118.3	5362.7	1269.7	734.2	661.5	581.7	494.8	418.5	383.0	381.3
37.5°	8130.9	7763.8	4908.7	908.0	657.9	569.2	473.5	377.7	321.0	297.9	296.2
40°	9051.3	8513.9	4259.6	735.9	587.0	480.6	365.3	292.6	253.6	235.9	237.6
42.5°	10156.1	9317.3	3481.1	634.9	517.8	395.5	285.5	230.5	205.7	193.3	189.7
45°	11383.2	10109.9	2665.4	565.7	448.7	319.2	223.4	182.7	163.1	156.1	156.1
47.5°	12732.8	10881.4	1950.7	505.4	374.2	246.5	179.1	149.0	133.0	127.7	125.9
50°	13958.1	11416.9	1406.3	441.6	306.8	195.1	145.4	124.1	113.5	106.4	106.4
52.5°	14979.6	11585.4	1035.6	372.4	248.3	156.1	120.6	106.4	95.8	90.4	90.4
55°	15878.7	11516.2	769.6	306.8	200.4	127.7	102.9	90.4	81.6	76.3	76.3
57.5°	16740.6	11292.8	574.6	250.0	161.4	102.9	86.9	76.3	67.4	63.8	63.8
60°	17444.6	10920.4	427.4	202.2	129.5	83.3	72.7	62.1	55.0	49.7	49.7
62.5°	18015.6	10509.0	313.9	166.7	102.9	65.6	56.7	51.4	40.8	35.5	35.5
65°	18019.2	9826.2	235.9	138.3	79.8	51.4	42.6	40.8	26.6	21.3	19.5
67.5°	16715.7	8471.4	180.9	118.8	62.1	39.0	31.9	33.7	14.2	8.9	7.1
68°	16242.2	8127.3	170.2	117.0	58.5	37.2	30.1	33.7	12.4	7.1	5.3
70°	13693.9	6465.7	136.5	113.5	51.4	28.4	24.8	33.7	10.6	5.3	3.5
72.5°	8758.6	3752.4	101.1	90.4	39.0	21.3	16.0	30.1	10.6	3.5	1.8
75°	3727.6	1163.3	69.2	63.8	23.1	16.0	10.6	19.5	7.1	1.8	0.0
77.5°	785.6	262.5	40.8	39.0	16.0	10.6	7.1	5.3	1.8	0.0	0.0
80°	202.2	76.3	21.3	19.5	8.9	5.3	3.5	0.0	0.0	0.0	0.0
82.5°	63.8	30.1	12.4	8.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.9	17.7	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	5.3	1.8	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)