

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: P383633

Luminaire Tested: **GAN-SA9A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38539.1 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

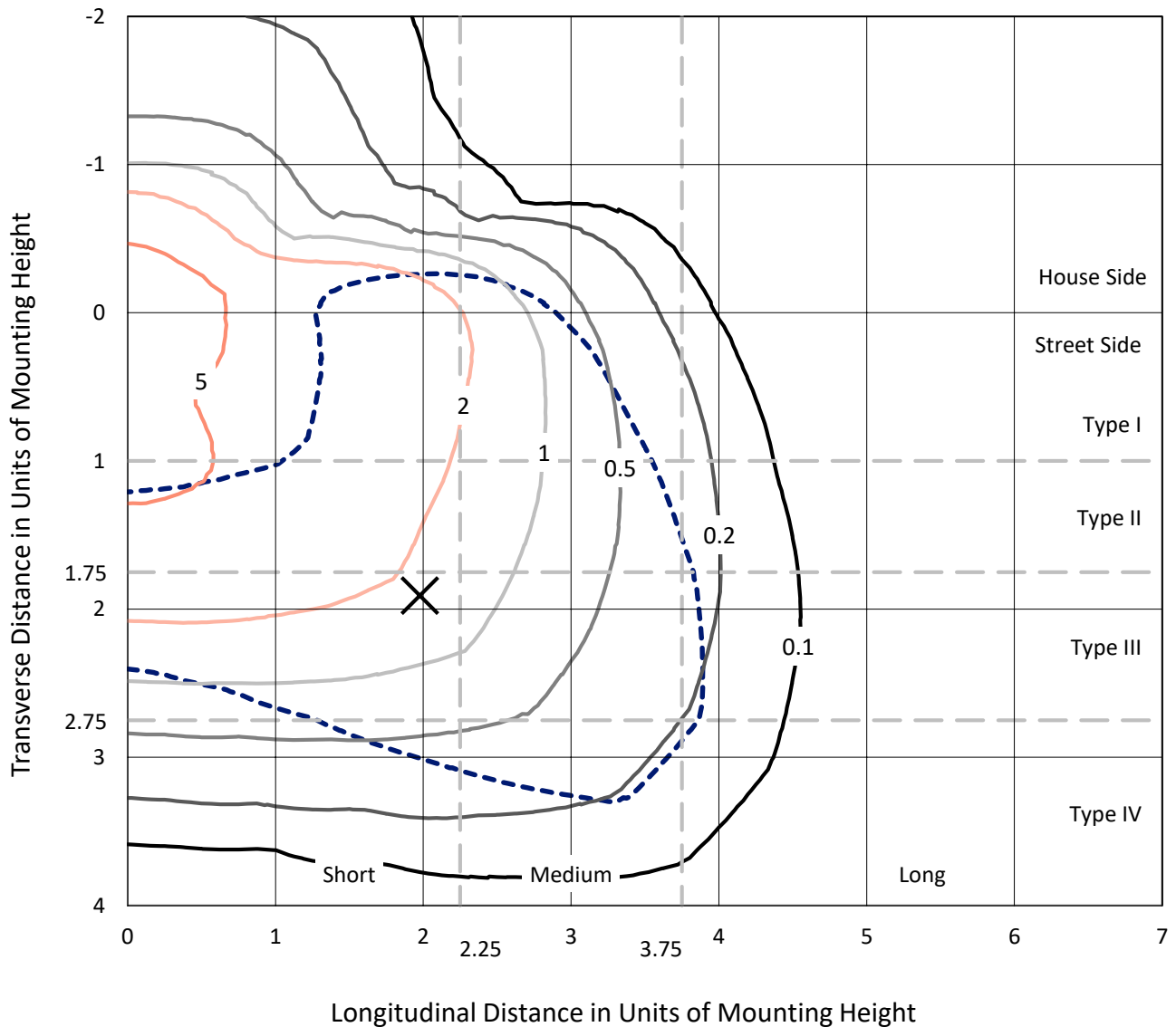
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

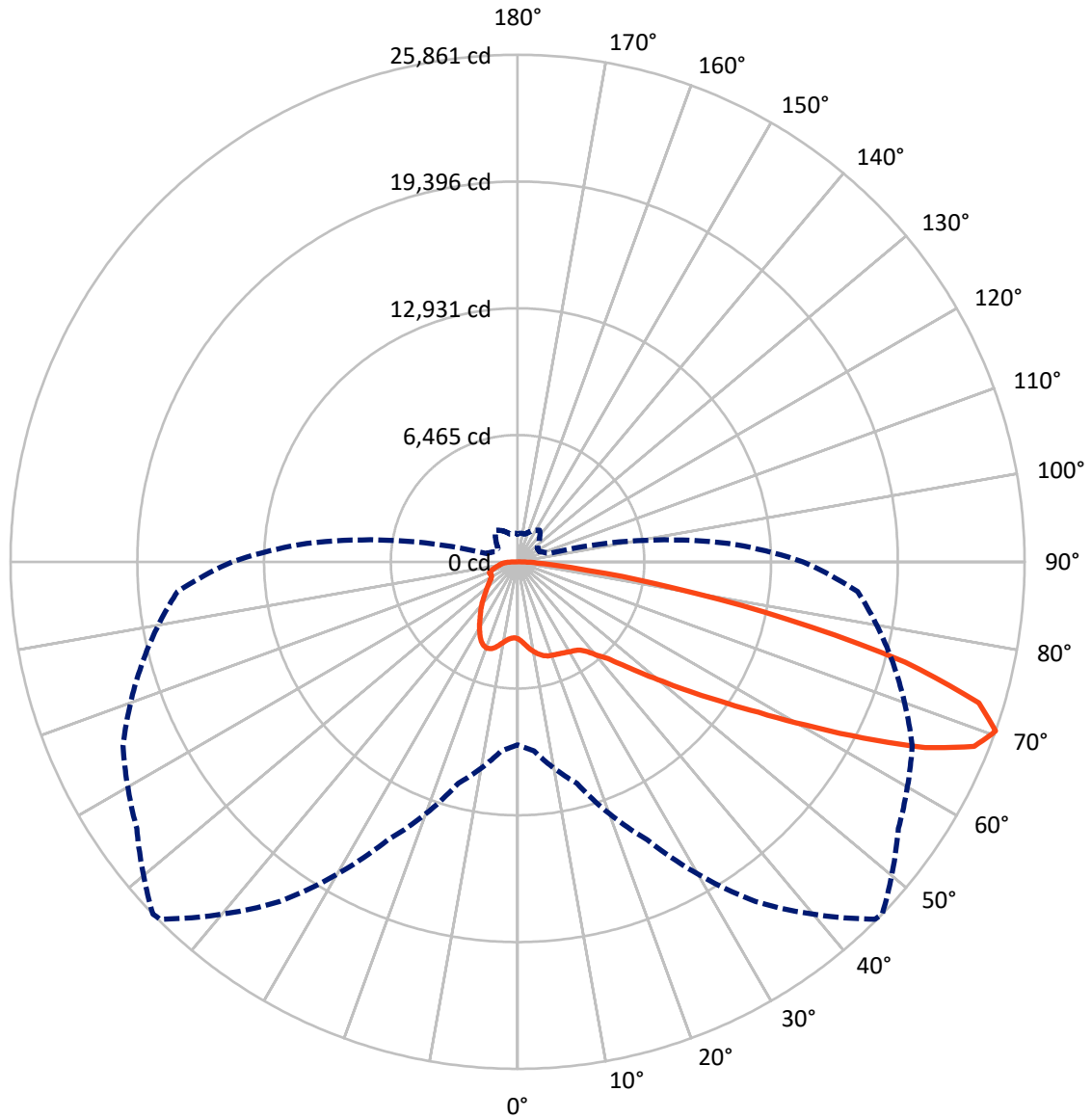
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8833.0	0.0	8833.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	29706.0	0.0	29706.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	38539.1	0.0	38539.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.3	1.0
10°-20°	1333.6	3.5
20°-30°	2223.6	5.8
30°-40°	3155.4	8.2
40°-50°	4641.4	12.0
50°-60°	7860.2	20.4
60°-70°	11157.4	29.0
70°-80°	6778.2	17.6
80°-90°	989.2	2.6
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°	38539.1	100.0
0°-180°	38539.1	100.0

Coefficient of Utilization

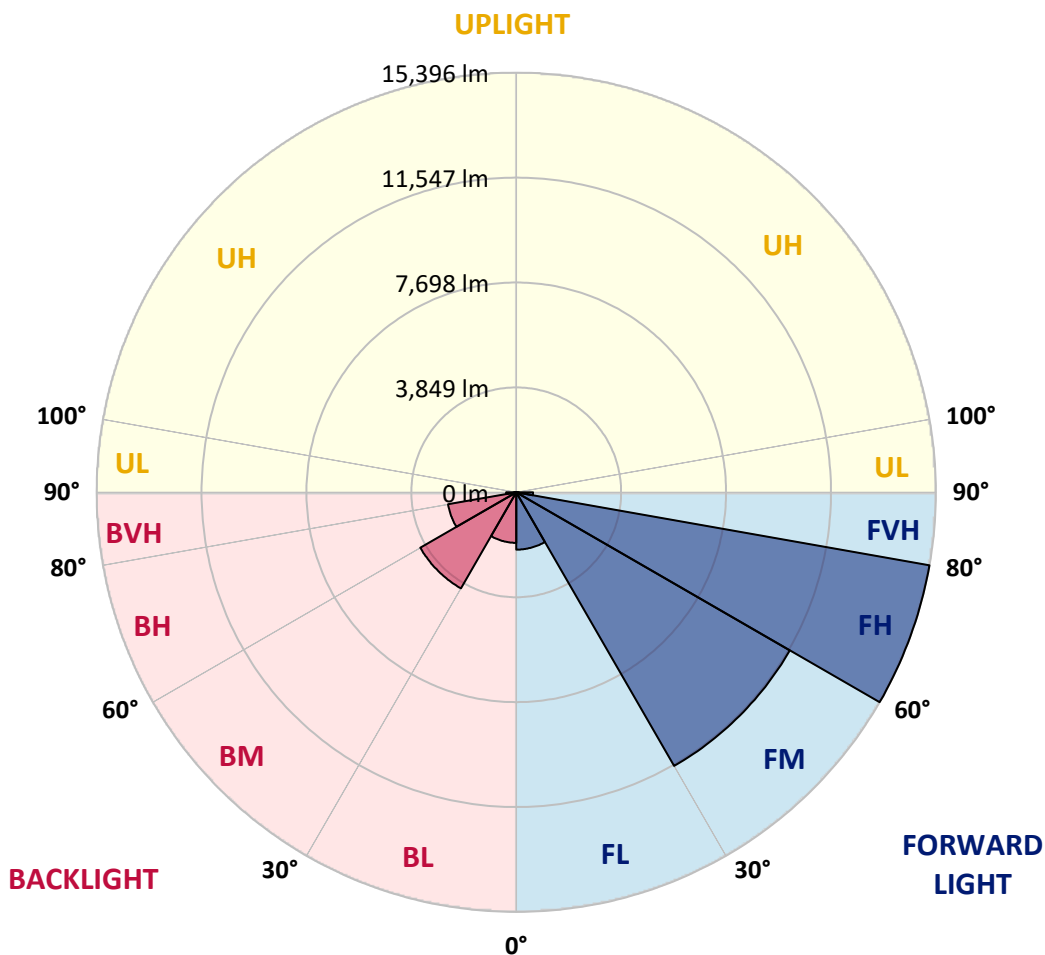


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2102.9	5.5			
FM (30°-60°)	11590.8	30.1			
FH (60°-80°)	15396.1	39.9			G5
FVH (80°-90°)	616.2	1.6			G4/750
BL (0°-30°)	1854.5	4.8	B3/2500		
BM (30°-60°)	4066.1	10.6	B3/5000		
BH (60°-80°)	2539.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	373.0	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4
2.5°	4122.9	4125.5	4130.8	4117.6	4080.6	4070.1	4066.2	4027.9	4002.9	3966.0	3934.3
5°	4452.6	4455.2	4447.3	4410.4	4328.6	4268.0	4262.7	4175.7	4096.5	4012.1	3948.8
7.5°	4796.8	4800.8	4775.8	4705.8	4591.1	4485.6	4479.0	4360.3	4240.3	4112.3	4017.4
10°	5101.5	5085.7	5044.8	4947.2	4811.4	4682.1	4676.8	4552.8	4414.3	4260.1	4133.5
12.5°	5304.6	5291.5	5238.7	5120.0	4970.9	4852.2	4841.7	4727.0	4592.4	4423.6	4271.9
15°	5416.8	5426.0	5354.7	5220.2	5075.2	4974.9	4965.7	4883.9	4763.8	4593.7	4419.6
17.5°	5431.2	5439.1	5370.6	5237.3	5118.7	5050.1	5046.1	4992.1	4905.0	4741.5	4559.5
20°	5346.8	5352.1	5295.4	5185.9	5108.1	5087.0	5085.7	5061.9	4997.3	4852.2	4675.5
22.5°	5224.2	5228.1	5187.2	5108.1	5081.8	5114.7	5124.0	5114.7	5068.6	4932.7	4766.5
25°	5193.8	5191.2	5149.0	5068.6	5091.0	5160.9	5172.7	5176.7	5145.0	5026.4	4882.6
27.5°	5340.3	5331.0	5250.6	5121.3	5135.8	5220.2	5236.0	5274.3	5254.5	5150.3	5014.4
30°	5763.6	5747.7	5583.0	5321.7	5250.6	5294.1	5313.8	5374.6	5378.5	5291.5	5189.9
32.5°	6478.4	6458.7	6163.2	5696.3	5444.4	5369.3	5387.7	5478.7	5527.5	5460.3	5350.8
35°	7381.9	7359.5	6971.7	6333.4	5768.9	5513.0	5526.2	5598.8	5696.3	5601.4	5456.3
37.5°	8323.6	8269.5	7896.3	7082.6	6284.6	5820.3	5820.3	5829.5	5875.7	5677.9	5580.2
40°	9260.0	9205.9	8868.3	7963.5	6952.0	6304.3	6274.1	6069.6	6032.7	5862.5	5829.5
42.5°	10130.5	10114.7	9915.5	8959.3	7735.4	6780.5	6738.3	6391.4	6399.4	6293.8	6295.1
45°	11056.4	11056.4	10894.2	9964.3	8648.0	7545.4	7503.2	6992.8	7071.9	7023.1	7140.5
47.5°	11812.1	11835.9	11813.4	11011.5	9709.8	8517.5	8440.9	7826.4	8047.9	8215.4	8557.0
50°	12583.6	12620.6	12624.5	12160.3	10993.1	9672.8	9585.8	8932.9	9427.5	9907.6	10578.9
52.5°	13703.4	13786.5	13455.5	13306.4	12565.2	11044.5	10958.7	10356.0	11181.6	11855.6	13012.3
55°	14741.4	14668.8	14432.7	14525.1	14248.1	12606.1	12541.4	12012.6	13136.3	14012.1	15514.3
57.5°	15303.3	15298.0	15535.3	15931.0	16063.0	14531.7	14477.6	13963.2	15340.2	15998.3	17863.3
60°	15962.7	15971.9	16560.1	17458.3	18001.7	16929.5	16905.7	16515.3	17480.8	17852.6	19705.8
62.5°	16055.0	16221.2	17234.1	18779.9	19816.5	19730.8	19783.6	18814.2	19395.8	19332.5	21081.4
65°	14993.3	15212.3	17045.6	19179.4	21620.8	22794.6	22843.4	21126.2	20906.0	20597.4	21573.3
67.5°	12817.1	13141.5	15133.1	18310.3	22215.6	25059.2	25127.8	22918.6	22158.9	21026.0	20389.0
70°	9327.3	9687.3	11692.0	15638.3	21155.2	25783.3	25861.1	23711.2	22206.4	19806.0	17405.6
72.5°	5634.4	5916.6	7569.2	11512.7	17855.3	24464.3	24602.8	22706.3	20274.2	16776.4	12852.7
75°	2474.3	2658.9	3660.0	6634.1	12782.8	20241.2	20414.0	19435.3	16473.1	12191.9	7596.9
77.5°	1053.8	1106.6	1500.9	2881.8	7226.3	13831.3	14068.7	14200.6	11176.4	6634.1	3210.2
80°	656.8	677.9	849.4	1304.4	3381.7	7768.4	8024.2	8355.2	5550.0	2438.7	1121.0
82.5°	399.6	423.4	564.5	788.7	1760.7	3521.4	3644.1	3877.6	2153.7	1053.8	580.4
85°	240.1	257.2	345.5	498.6	1002.3	1384.8	1383.5	1530.0	1014.3	677.9	306.0
87.5°	114.8	127.9	184.6	258.5	505.2	519.6	486.6	551.3	615.9	444.4	154.4
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°	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4	3926.4
2.5°	3923.8	3918.5	3901.3	3888.1	3885.5	3877.6	3871.0	3875.0	3880.2	3881.6	3881.6
5°	3922.4	3907.9	3885.5	3876.3	3888.1	3903.9	3923.8	3950.1	3966.0	3977.8	3985.7
7.5°	3985.7	3958.1	3933.0	3927.7	3951.4	3993.6	4038.4	4093.9	4132.2	4158.5	4163.7
10°	4091.3	4057.0	4031.9	4037.1	4079.3	4140.1	4203.3	4274.6	4332.6	4368.2	4370.8
12.5°	4212.6	4179.6	4155.8	4178.3	4248.2	4322.0	4388.0	4450.0	4502.7	4538.3	4538.3
15°	4352.4	4328.6	4301.0	4352.4	4447.3	4513.3	4541.0	4571.3	4600.4	4626.7	4621.4
17.5°	4486.9	4464.4	4450.0	4510.6	4609.6	4639.9	4621.4	4599.1	4599.1	4613.5	4616.2
20°	4603.0	4583.2	4592.4	4651.8	4703.2	4671.5	4603.0	4531.8	4502.7	4510.6	4518.6
22.5°	4704.5	4695.3	4723.0	4750.7	4713.7	4603.0	4476.4	4380.0	4344.5	4341.9	4344.5
25°	4823.3	4821.9	4856.2	4806.0	4642.6	4438.1	4268.0	4174.4	4154.5	4170.4	4196.7
27.5°	4970.9	4985.5	5002.6	4819.3	4497.4	4188.8	4016.1	3951.4	3971.2	4009.5	4034.5
30°	5159.6	5199.2	5162.2	4786.3	4289.0	3903.9	3739.0	3720.6	3774.7	3828.8	3855.1
32.5°	5342.9	5404.8	5315.2	4700.6	4020.0	3601.9	3474.0	3468.7	3534.7	3587.4	3624.4
35°	5490.6	5613.2	5429.9	4530.4	3708.8	3323.7	3230.0	3194.4	3218.1	3280.1	3322.3
37.5°	5683.2	5887.6	5509.1	4270.6	3371.1	3094.1	2984.7	2902.9	2881.8	2906.9	2927.9
40°	6035.3	6305.6	5546.0	3907.9	3041.4	2864.7	2753.8	2633.9	2550.8	2490.1	2491.4
42.5°	6610.4	6850.4	5522.2	3467.4	2736.7	2640.5	2515.2	2376.7	2242.1	2104.9	2094.4
45°	7544.1	7660.2	5451.0	3000.5	2469.0	2405.7	2288.3	2149.8	1970.4	1814.8	1800.3
47.5°	9038.4	8781.2	5340.3	2593.0	2232.9	2206.6	2098.4	1938.8	1748.9	1623.6	1613.0
50°	11076.2	10399.5	5286.2	2268.5	2024.5	2032.5	1944.0	1775.3	1595.8	1503.5	1493.0
52.5°	13513.5	12284.2	5390.4	2017.9	1857.0	1884.7	1818.8	1660.5	1510.1	1437.6	1427.0
55°	16041.8	14236.3	5502.5	1835.9	1698.8	1752.8	1730.4	1599.8	1464.0	1396.8	1387.4
57.5°	18206.2	15693.6	5278.2	1688.2	1557.6	1642.0	1661.8	1561.6	1440.3	1379.5	1369.0
60°	19568.6	16280.6	4690.1	1549.7	1445.5	1553.6	1622.3	1551.0	1449.5	1444.2	1436.3
62.5°	20214.9	16229.1	3807.7	1440.3	1375.6	1515.4	1651.3	1610.4	1555.0	1602.4	1606.5
65°	19924.7	15453.6	2835.6	1367.7	1325.5	1530.0	1738.4	1722.5	1585.3	1632.8	1639.4
67.5°	18014.9	13603.2	2099.7	1304.4	1270.1	1570.8	1896.5	1759.4	1526.0	1560.2	1539.2
70°	14560.6	10784.7	1619.6	1233.2	1213.4	1565.6	1967.8	1737.0	1461.3	1469.2	1412.5
72.5°	10040.8	7354.2	1317.6	1167.2	1131.6	1427.0	1917.7	1681.6	1407.3	1346.6	1271.5
75°	5460.3	3947.4	1119.7	1098.7	987.8	1252.9	1825.4	1642.0	1358.5	1278.0	1235.8
77.5°	2148.5	1638.0	972.1	1005.0	863.9	1106.6	1722.5	1566.9	1291.2	1185.7	1164.6
80°	877.1	836.2	805.9	869.1	742.5	968.1	1598.5	1478.5	1210.7	1100.0	1057.8
82.5°	497.3	519.6	626.5	685.8	602.7	891.6	1539.2	1407.3	1114.5	985.2	935.1
85°	254.6	304.7	436.5	492.0	443.1	758.4	1417.8	1231.9	894.2	754.4	758.4
87.5°	122.7	170.1	275.6	308.6	287.5	548.7	1059.1	892.9	696.4	551.3	534.1
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)