

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: P383549

Luminaire Tested: **GAN-SA8B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383549
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-SA8B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42366.8 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

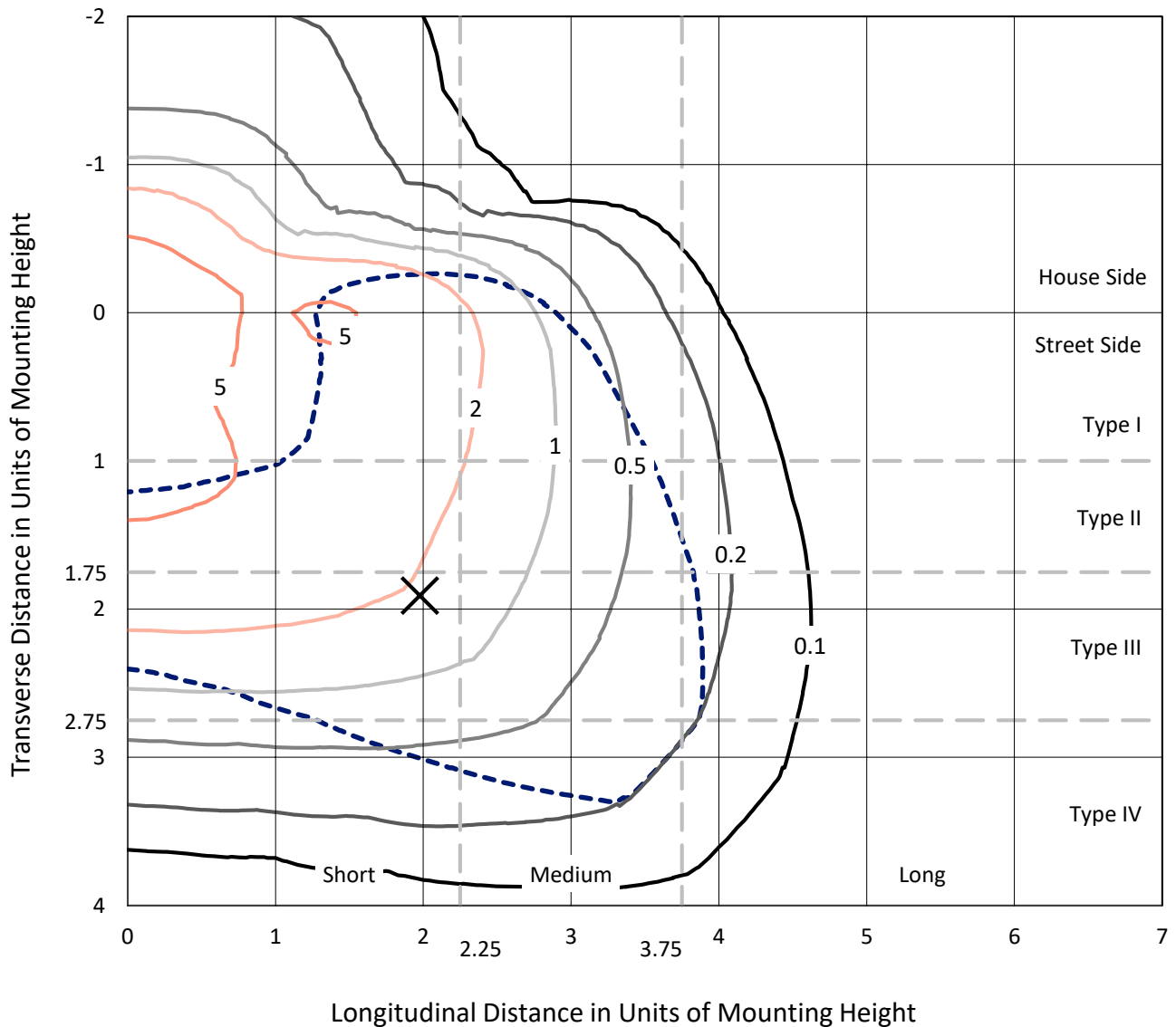
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

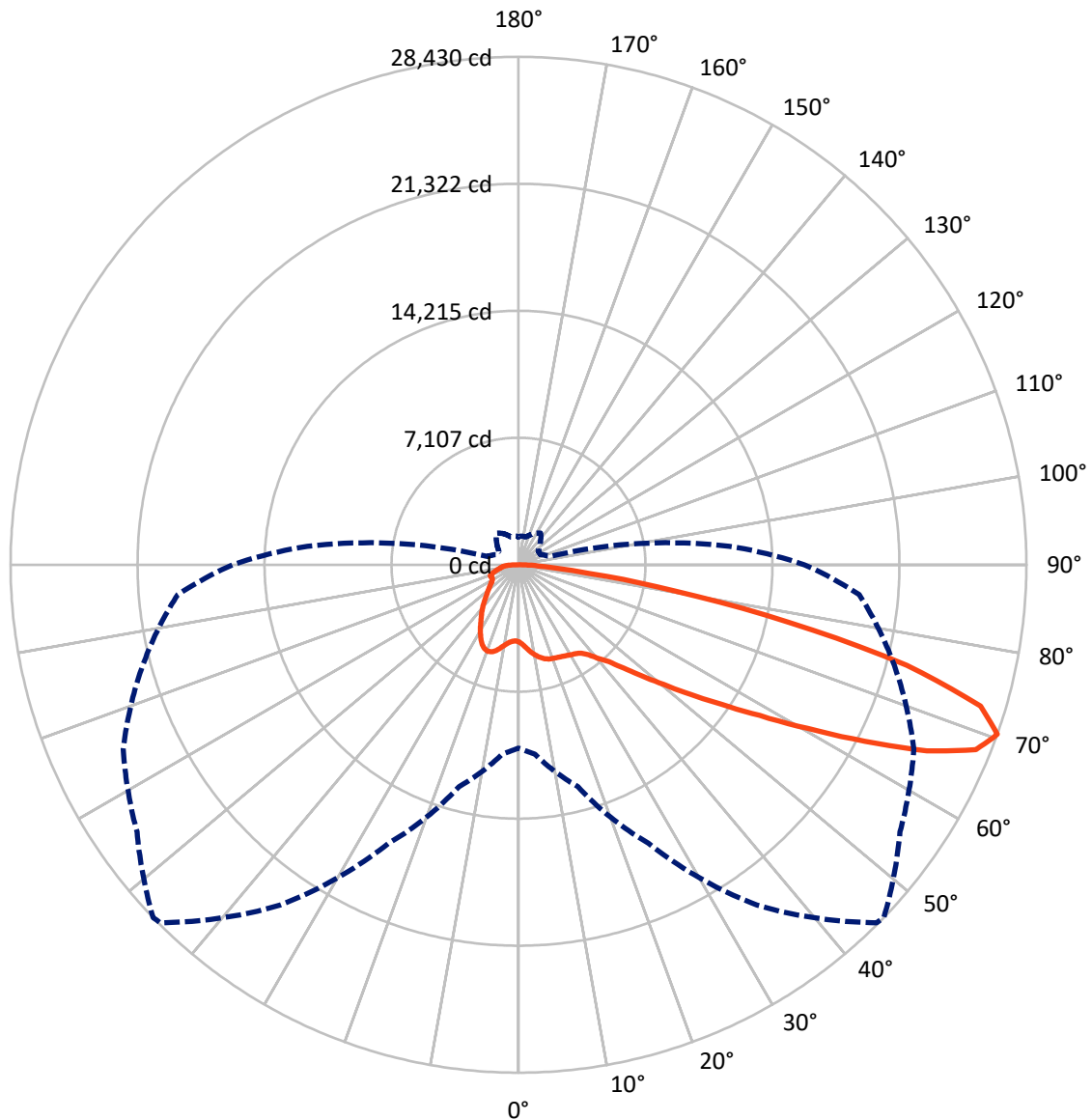
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	9710.4	0.0	9710.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32656.5	0.0	32656.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	42366.8	0.0	42366.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.0	1.0
10°-20°	1466.0	3.5
20°-30°	2444.4	5.8
30°-40°	3468.8	8.2
40°-50°	5102.4	12.0
50°-60°	8640.8	20.4
60°-70°	12265.5	29.0
70°-80°	7451.4	17.6
80°-90°	1087.4	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°	42366.8	100.0
0°-180°	42366.8	100.0

Coefficient of Utilization

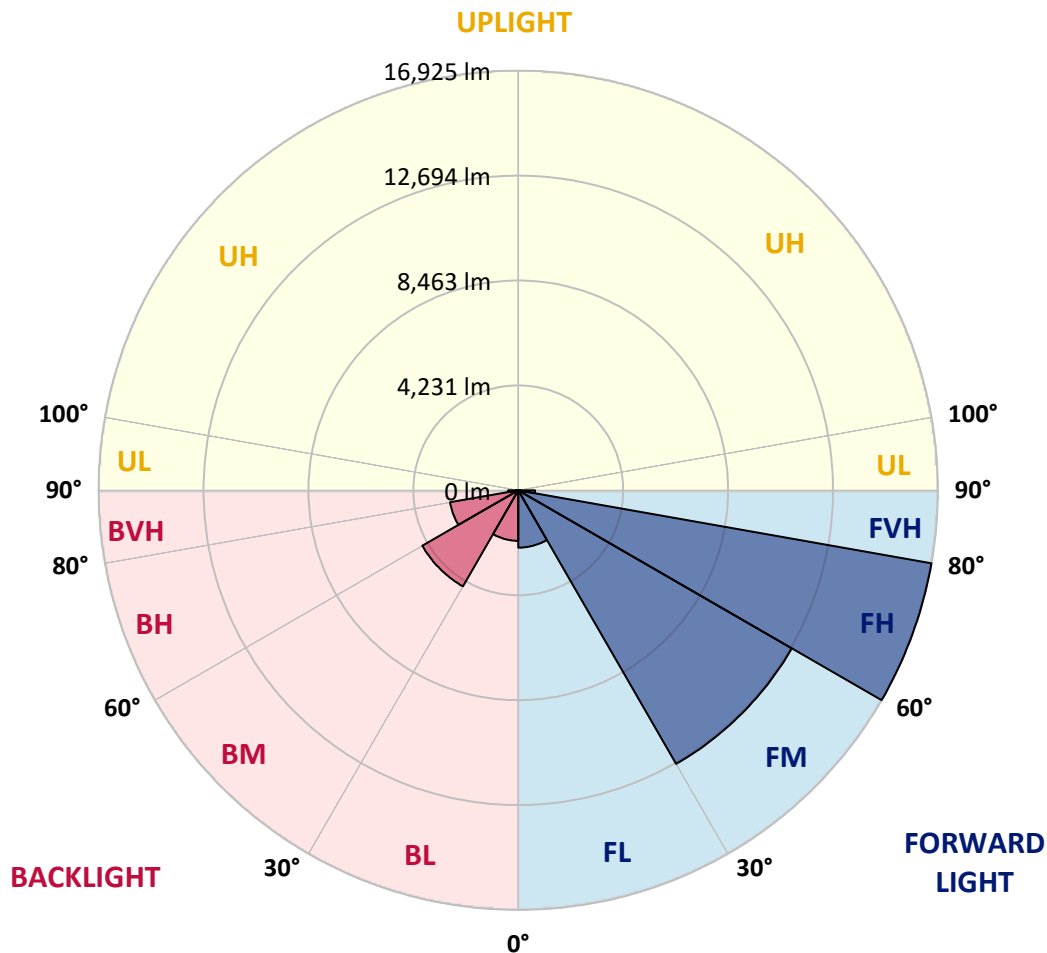


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2311.7	5.5			
FM (30°-60°)	12742.0	30.1			
FH (60°-80°)	16925.3	39.9			G5
FVH (80°-90°)	677.4	1.6			G4/750
BL (0°-30°)	2038.7	4.8	B3/2500		
BM (30°-60°)	4469.9	10.6	B3/5000		
BH (60°-80°)	2791.6	6.6	B4/5000		G4/5000
BVH (80°-90°)	410.1	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°	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3
2.5°	4532.4	4535.2	4541.1	4526.6	4486.0	4474.4	4470.0	4428.0	4400.4	4359.8	4325.1
5°	4894.8	4897.8	4889.0	4848.4	4758.5	4691.8	4686.1	4590.4	4503.4	4410.6	4341.0
7.5°	5273.3	5277.6	5250.1	5173.3	5047.1	4931.1	4923.9	4793.4	4661.5	4520.8	4416.4
10°	5608.2	5590.8	5545.9	5438.6	5289.2	5147.2	5141.3	5005.0	4852.8	4683.2	4544.0
12.5°	5831.5	5817.0	5759.0	5628.5	5464.6	5334.1	5322.6	5196.5	5048.5	4863.0	4696.2
15°	5954.7	5964.9	5886.5	5738.7	5579.2	5469.0	5458.9	5369.0	5237.1	5050.0	4858.6
17.5°	5970.7	5979.4	5904.0	5757.5	5627.0	5551.7	5547.3	5487.8	5392.2	5212.4	5012.3
20°	5877.9	5883.7	5821.3	5701.0	5615.5	5592.3	5590.8	5564.7	5493.7	5334.1	5139.9
22.5°	5743.1	5747.4	5702.5	5615.5	5586.5	5622.7	5632.9	5622.7	5572.0	5422.6	5240.0
25°	5709.7	5706.8	5660.4	5572.0	5596.6	5673.4	5686.5	5690.8	5656.1	5525.6	5367.5
27.5°	5870.6	5860.5	5772.1	5630.0	5645.9	5738.7	5756.1	5798.1	5776.4	5661.9	5512.5
30°	6336.0	6318.7	6137.4	5850.3	5772.1	5819.9	5841.6	5908.3	5912.7	5817.0	5705.4
32.5°	7121.9	7100.2	6775.3	6262.1	5985.2	5902.6	5922.9	6022.9	6076.5	6002.6	5882.3
35°	8115.1	8090.4	7664.1	6962.4	6341.9	6060.6	6075.1	6154.8	6262.1	6157.7	5998.2
37.5°	9150.3	9090.9	8680.5	7786.0	6908.7	6398.4	6398.4	6408.6	6459.3	6241.8	6134.5
40°	10179.8	10120.3	9749.1	8754.5	7642.4	6930.5	6897.2	6672.4	6631.9	6444.8	6408.6
42.5°	11136.7	11119.2	10900.3	9849.2	8503.6	7454.0	7407.6	7026.2	7034.9	6918.9	6920.4
45°	12154.5	12154.5	11976.2	10954.0	9507.0	8294.9	8248.5	7687.3	7774.3	7720.7	7849.8
47.5°	12985.3	13011.4	12986.7	12105.2	10674.1	9363.5	9279.3	8603.7	8847.3	9031.4	9407.0
50°	13833.5	13874.1	13878.4	13368.1	12084.9	10633.5	10537.9	9820.2	10363.8	10891.7	11629.6
52.5°	15064.4	15155.8	14791.9	14628.0	13813.2	12141.4	12047.2	11384.6	12292.2	13033.1	14304.7
55°	16205.5	16125.7	15866.2	15967.8	15663.2	13858.2	13787.1	13205.7	14440.9	15403.7	17055.1
57.5°	16823.2	16817.3	17078.3	17513.3	17658.3	15975.0	15915.5	15350.0	16863.8	17587.2	19637.4
60°	17548.1	17558.3	18205.0	19192.3	19789.6	18610.9	18584.7	18155.6	19217.0	19625.8	21663.0
62.5°	17649.6	17832.3	18945.8	20645.1	21784.7	21690.4	21748.5	20682.8	21322.2	21252.6	23175.1
65°	16482.4	16723.1	18738.5	21084.5	23768.2	25058.6	25112.2	23224.5	22982.3	22643.0	23716.0
67.5°	14090.1	14446.8	16636.1	20129.0	24422.1	27548.1	27623.5	25194.9	24359.7	23114.3	22414.0
70°	10253.6	10649.5	12853.3	17191.4	23256.4	28344.0	28429.6	26066.3	24412.0	21773.2	19134.3
72.5°	6194.0	6504.3	8321.0	12656.2	19628.7	26894.2	27046.4	24961.5	22287.8	18442.7	14129.2
75°	2720.0	2923.0	4023.4	7293.0	14052.4	22251.6	22441.5	21365.7	18109.2	13402.8	8351.4
77.5°	1158.5	1216.5	1650.0	3168.0	7944.0	15205.1	15466.0	15611.1	12286.5	7293.0	3529.1
80°	722.0	745.2	933.7	1433.9	3717.5	8539.9	8821.2	9185.1	6101.2	2680.9	1232.4
82.5°	439.3	465.4	620.6	867.1	1935.6	3871.2	4006.0	4262.7	2367.7	1158.5	637.9
85°	263.9	282.7	379.9	548.0	1101.9	1522.4	1520.9	1681.9	1115.0	745.2	336.4
87.5°	126.1	140.7	203.0	284.2	555.3	571.2	535.0	606.1	677.1	488.6	169.6
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°	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3	4316.3
2.5°	4313.4	4307.7	4288.8	4274.3	4271.4	4262.7	4255.5	4259.8	4265.6	4267.0	4267.0
5°	4312.0	4296.0	4271.4	4261.3	4274.3	4291.7	4313.4	4342.4	4359.8	4372.9	4381.6
7.5°	4381.6	4351.2	4323.6	4317.8	4343.9	4390.3	4439.6	4500.5	4542.5	4571.6	4577.3
10°	4497.6	4459.9	4432.3	4438.2	4484.6	4551.3	4620.8	4699.1	4762.9	4802.0	4804.9
12.5°	4631.0	4594.8	4568.6	4593.3	4670.1	4751.4	4823.8	4891.9	4950.0	4989.1	4989.1
15°	4784.7	4758.5	4728.2	4784.7	4889.0	4961.5	4992.0	5025.3	5057.3	5086.2	5080.5
17.5°	4932.5	4907.9	4891.9	4958.6	5067.4	5100.8	5080.5	5055.8	5055.8	5071.7	5074.6
20°	5060.2	5038.4	5048.5	5113.8	5170.4	5135.5	5060.2	4981.8	4950.0	4958.6	4967.4
22.5°	5171.8	5161.6	5192.1	5222.5	5181.9	5060.2	4921.0	4815.1	4776.0	4773.1	4776.0
25°	5302.3	5300.8	5338.5	5283.5	5103.7	4878.9	4691.8	4588.9	4567.2	4584.6	4613.6
27.5°	5464.6	5480.6	5499.5	5297.9	4944.2	4604.9	4415.0	4343.9	4365.6	4407.7	4435.2
30°	5672.0	5715.5	5674.9	5261.7	4715.0	4291.7	4110.5	4090.1	4149.6	4209.0	4238.1
32.5°	5873.5	5941.7	5843.1	5167.5	4419.3	3959.6	3819.1	3813.2	3885.8	3943.7	3984.3
35°	6036.0	6170.8	5969.3	4980.4	4077.1	3653.7	3550.8	3511.7	3537.7	3605.9	3652.3
37.5°	6247.6	6472.3	6056.2	4694.8	3706.0	3401.5	3281.1	3191.2	3168.0	3195.6	3218.8
40°	6634.8	6931.9	6096.8	4296.0	3343.5	3149.2	3027.3	2895.4	2804.1	2737.4	2738.8
42.5°	7266.9	7530.7	6070.7	3811.8	3008.5	2902.7	2764.9	2612.7	2464.8	2314.1	2302.4
45°	8293.4	8421.0	5992.5	3298.5	2714.3	2644.6	2515.6	2363.3	2166.1	1995.1	1979.1
47.5°	9936.2	9653.4	5870.6	2850.5	2454.7	2425.7	2306.8	2131.4	1922.5	1784.8	1773.2
50°	12176.3	11432.4	5811.2	2493.8	2225.6	2234.3	2137.2	1951.6	1754.4	1652.8	1641.3
52.5°	14855.7	13504.4	5925.8	2218.4	2041.5	2071.9	1999.4	1825.5	1660.1	1580.4	1568.8
55°	17635.1	15650.2	6049.0	2018.3	1867.5	1926.9	1902.2	1758.8	1609.3	1535.5	1525.3
57.5°	20014.4	17252.4	5802.5	1855.8	1712.4	1805.2	1826.9	1716.7	1583.3	1516.6	1505.0
60°	21512.1	17897.5	5155.8	1703.6	1589.1	1708.0	1783.4	1705.1	1593.4	1587.6	1579.0
62.5°	22222.6	17841.0	4185.8	1583.3	1512.3	1665.9	1815.3	1770.3	1709.4	1761.6	1765.9
65°	21903.6	16988.4	3117.2	1503.5	1457.1	1681.9	1911.0	1893.6	1742.7	1795.0	1802.3
67.5°	19804.1	14954.2	2308.3	1433.9	1396.3	1726.8	2085.0	1934.2	1677.5	1715.3	1692.1
70°	16006.9	11855.8	1780.5	1355.7	1333.9	1721.0	2163.2	1909.5	1606.5	1615.2	1552.8
72.5°	11038.1	8084.6	1448.5	1283.1	1244.0	1568.8	2108.2	1848.7	1547.0	1480.3	1397.7
75°	6002.6	4339.5	1230.9	1207.8	1086.0	1377.4	2006.6	1805.2	1493.4	1405.0	1358.6
77.5°	2361.8	1800.8	1068.6	1104.8	949.7	1216.5	1893.6	1722.5	1419.5	1303.4	1280.2
80°	964.2	919.3	885.9	955.5	816.3	1064.2	1757.3	1625.4	1331.0	1209.2	1162.9
82.5°	546.6	571.2	688.7	753.9	662.6	980.2	1692.1	1547.0	1225.2	1083.1	1028.0
85°	279.8	334.9	479.9	540.9	487.2	833.7	1558.7	1354.2	983.1	829.4	833.7
87.5°	134.8	187.1	303.0	339.3	316.1	603.2	1164.2	981.6	765.5	606.1	587.2
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)