

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: P319034

Luminaire Tested: **GAN-SA0A-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319034
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-SA0A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 45805 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

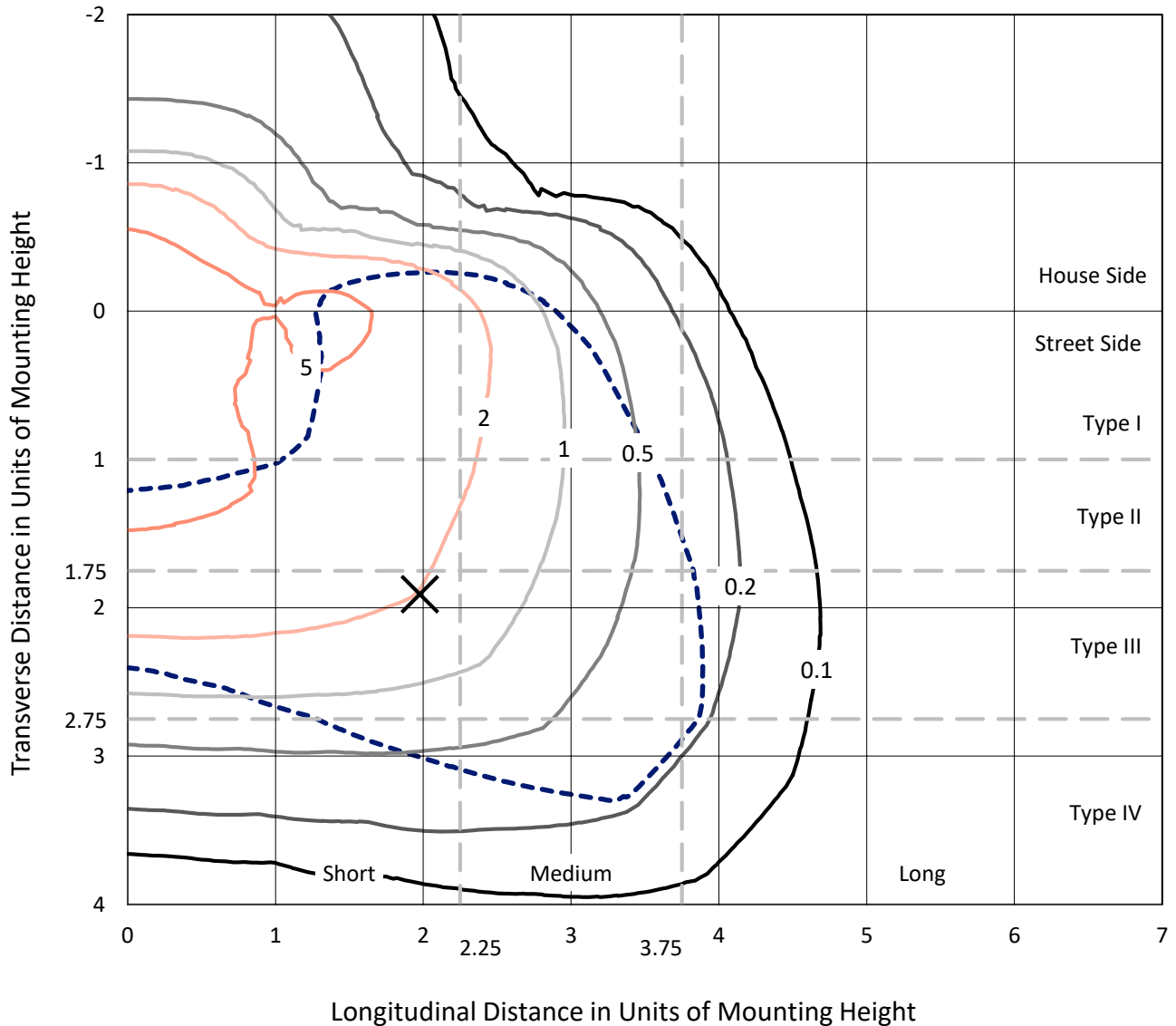
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

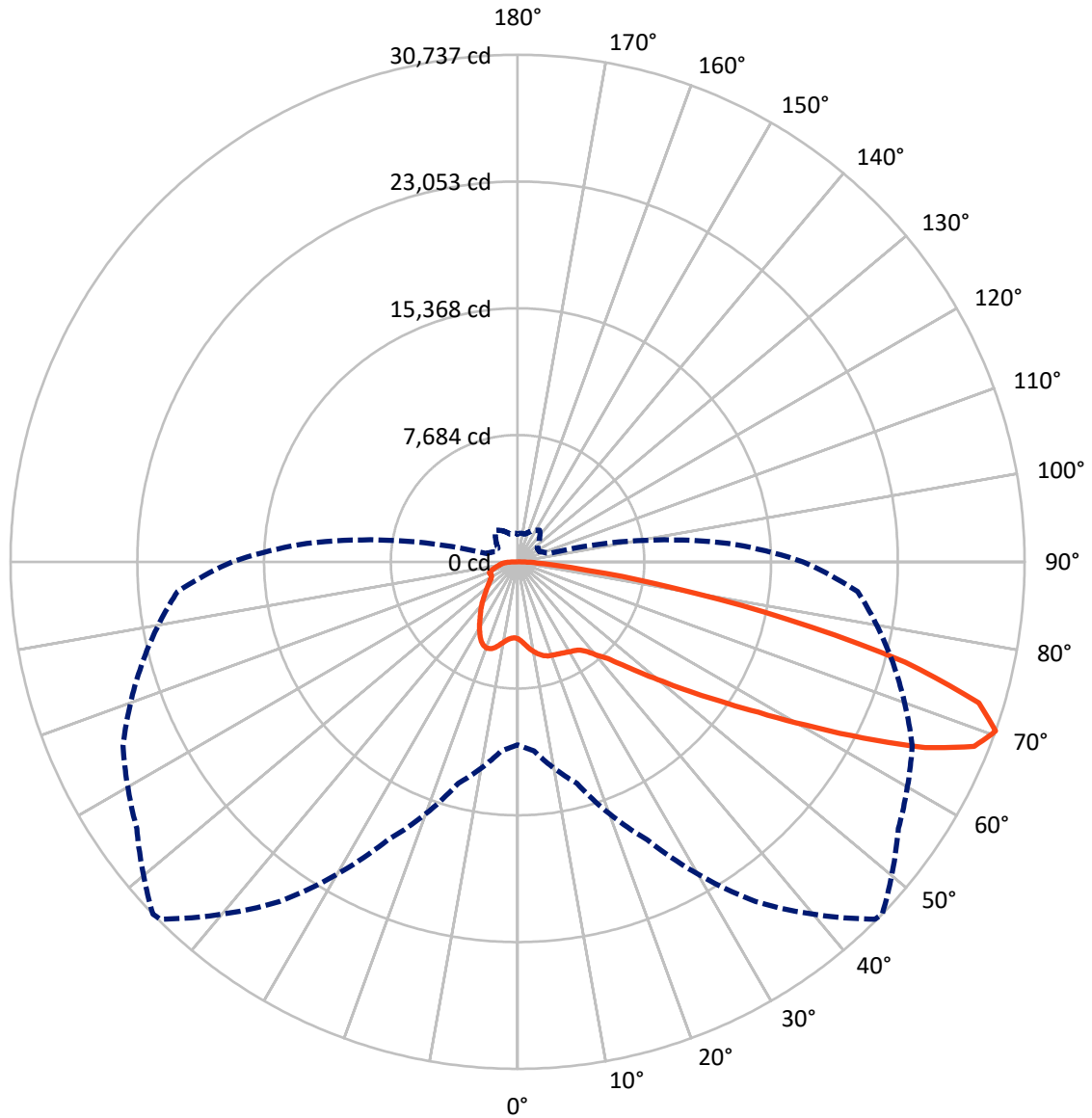
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	10498.4	0.0	10498.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	35306.6	0.0	35306.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	45805.0	0.0	45805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.7	1.0
10°-20°	1585.0	3.5
20°-30°	2642.8	5.8
30°-40°	3750.3	8.2
40°-50°	5516.4	12.0
50°-60°	9342.1	20.4
60°-70°	13260.9	29.0
70°-80°	8056.1	17.6
80°-90°	1175.7	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°	45805.0	100.0
0°-180°	45805.0	100.0

Coefficient of Utilization

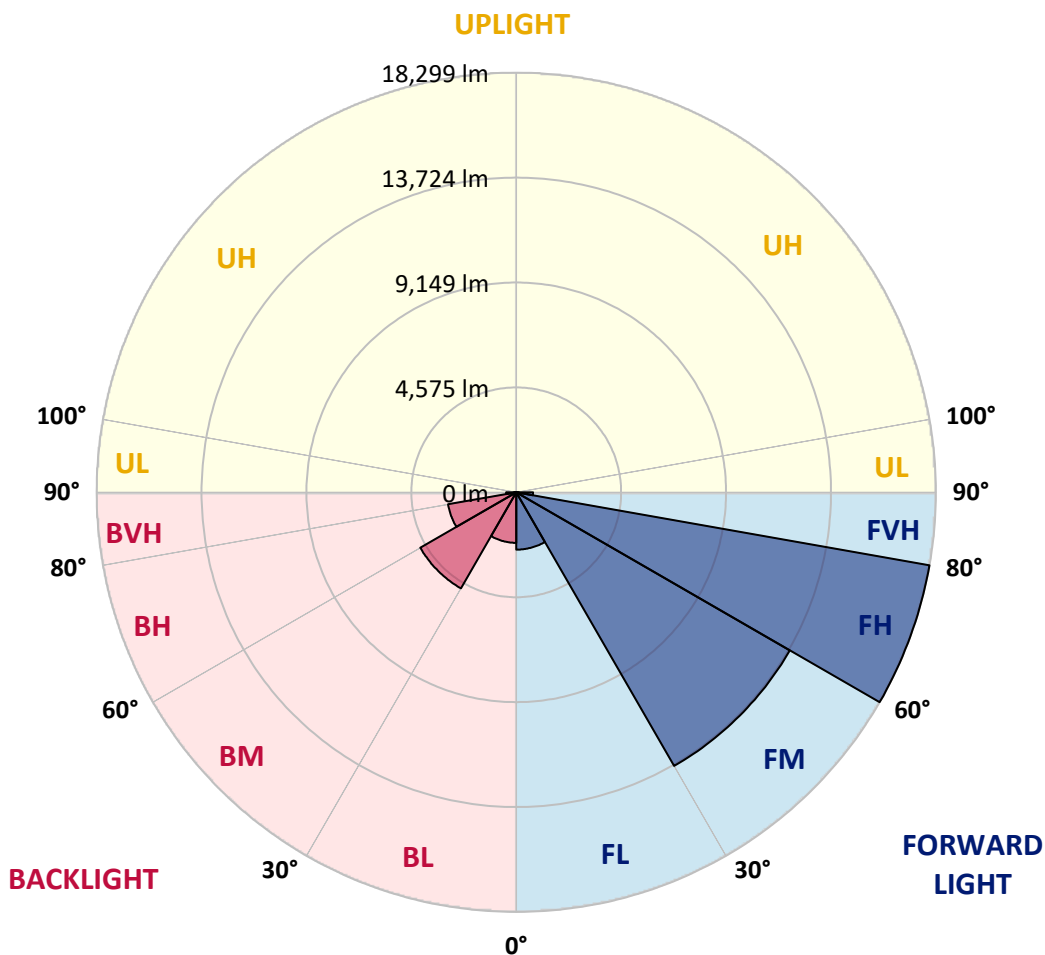


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.3	5.5			
FM (30°-60°)	13776.1	30.1			
FH (60°-80°)	18298.8	39.9			G5
FVH (80°-90°)	732.4	1.6			G4/750
BL (0°-30°)	2204.2	4.8	B3/2500		
BM (30°-60°)	4832.7	10.6	B3/5000		
BH (60°-80°)	3018.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	443.3	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°	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6
2.5°	4900.2	4903.3	4909.6	4893.9	4850.0	4837.5	4832.8	4787.3	4757.6	4713.7	4676.0
5°	5292.1	5295.2	5285.8	5241.9	5144.7	5072.6	5066.4	4962.9	4868.8	4768.5	4693.3
7.5°	5701.2	5705.9	5676.1	5593.1	5456.7	5331.3	5323.4	5182.4	5039.7	4887.7	4774.8
10°	6063.3	6044.5	5995.9	5879.9	5718.5	5564.8	5558.6	5411.2	5246.6	5063.2	4912.7
12.5°	6304.7	6289.1	6226.4	6085.3	5908.1	5767.1	5754.5	5618.1	5458.3	5257.6	5077.3
15°	6438.0	6449.0	6364.3	6204.4	6032.0	5912.8	5901.9	5804.7	5662.0	5459.8	5252.9
17.5°	6455.2	6464.6	6383.1	6224.8	6083.7	6002.2	5997.5	5933.2	5829.8	5635.4	5419.1
20°	6354.9	6361.2	6293.8	6163.7	6071.2	6046.1	6044.5	6016.3	5939.5	5767.1	5557.0
22.5°	6209.1	6213.8	6165.2	6071.2	6039.8	6079.0	6090.0	6079.0	6024.1	5862.7	5665.2
25°	6173.1	6169.9	6119.8	6024.1	6050.8	6133.9	6148.0	6152.7	6115.1	5974.0	5803.1
27.5°	6347.1	6336.1	6240.5	6086.8	6104.1	6204.4	6223.2	6268.7	6245.2	6121.3	5959.9
30°	6850.2	6831.4	6635.5	6325.1	6240.5	6292.2	6315.7	6387.8	6392.5	6289.1	6168.4
32.5°	7699.9	7676.4	7325.2	6770.3	6470.9	6381.5	6403.5	6511.7	6569.7	6489.7	6359.6
35°	8773.6	8747.0	8286.1	7527.4	6856.5	6552.4	6568.1	6654.3	6770.3	6657.4	6485.0
37.5°	9892.9	9828.6	9385.0	8417.8	7469.4	6917.7	6917.7	6928.6	6983.5	6748.4	6632.4
40°	11005.9	10941.6	10540.3	9464.9	8262.6	7492.9	7456.9	7213.9	7170.0	6967.8	6928.6
42.5°	12040.4	12021.6	11784.9	10648.5	9193.8	8058.8	8008.7	7596.4	7605.8	7480.4	7482.0
45°	13140.9	13140.9	12948.1	11842.9	10278.5	8968.0	8917.9	8311.2	8405.3	8347.3	8486.8
47.5°	14039.1	14067.3	14040.7	13087.6	11540.4	10123.3	10032.4	9301.9	9565.3	9764.3	10170.3
50°	14956.1	15000.0	15004.7	14452.9	13065.6	11496.5	11393.0	10617.1	11204.9	11775.5	12573.4
52.5°	16287.0	16385.7	15992.3	15815.1	14934.2	13126.8	13024.9	12308.5	13289.8	14090.8	15465.6
55°	17520.6	17434.4	17153.8	17263.6	16934.4	14982.8	14905.9	14277.4	15612.9	16653.8	18439.2
57.5°	18188.4	18182.2	18464.3	18934.6	19091.3	17271.4	17207.1	16595.8	18232.3	19014.5	21231.1
60°	18972.2	18983.2	19682.3	20749.8	21395.7	20121.2	20093.0	19629.0	20776.5	21218.5	23420.9
62.5°	19081.9	19279.4	20483.3	22320.5	23552.6	23450.7	23513.4	22361.3	23052.6	22977.3	25055.9
65°	17820.0	18080.3	20259.2	22795.5	25697.0	27092.2	27150.2	25109.2	24847.4	24480.6	25640.6
67.5°	15233.6	15619.2	17986.2	21762.5	26404.0	29783.7	29865.2	27239.5	26336.6	24990.1	24232.9
70°	11085.8	11513.7	13896.4	18586.6	25143.7	30644.3	30736.8	28181.6	26393.0	23540.1	20687.1
72.5°	6696.6	7032.1	8996.2	13683.3	21221.7	29076.7	29241.3	26987.2	24096.6	19939.4	15275.9
75°	2940.7	3160.2	4350.0	7884.8	15192.8	24057.4	24262.7	23099.6	19578.9	14490.5	9029.2
77.5°	1252.5	1315.2	1783.9	3425.1	8588.7	16439.0	16721.2	16877.9	13283.5	7884.8	3815.4
80°	780.6	805.7	1009.5	1550.3	4019.2	9232.9	9537.0	9930.5	6596.3	2898.4	1332.4
82.5°	475.0	503.2	670.9	937.4	2092.7	4185.4	4331.2	4608.6	2559.8	1252.5	689.7
85°	285.3	305.7	410.7	592.5	1191.3	1645.9	1644.4	1818.4	1205.5	805.7	363.7
87.5°	136.4	152.1	219.5	307.2	600.4	617.6	578.4	655.2	732.1	528.3	183.4
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°	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6	4666.6
2.5°	4663.5	4657.2	4636.8	4621.2	4618.0	4608.6	4600.8	4605.5	4611.8	4613.3	4613.3
5°	4661.9	4644.7	4618.0	4607.1	4621.2	4640.0	4663.5	4694.8	4713.7	4727.8	4737.2
7.5°	4737.2	4704.3	4674.5	4668.2	4696.4	4746.6	4799.9	4865.7	4911.2	4942.5	4948.8
10°	4862.6	4821.8	4792.0	4798.3	4848.5	4920.6	4995.8	5080.5	5149.4	5191.8	5194.9
12.5°	5006.8	4967.6	4939.4	4966.0	5049.1	5136.9	5215.3	5289.0	5351.7	5394.0	5394.0
15°	5173.0	5144.7	5111.8	5173.0	5285.8	5364.2	5397.1	5433.2	5467.7	5499.0	5492.7
17.5°	5332.8	5306.2	5289.0	5361.1	5478.6	5514.7	5492.7	5466.1	5466.1	5483.3	5486.5
20°	5470.8	5447.3	5458.3	5528.8	5589.9	5552.3	5470.8	5386.1	5351.7	5361.1	5370.5
22.5°	5591.5	5580.5	5613.4	5646.4	5602.5	5470.8	5320.3	5205.9	5163.6	5160.4	5163.6
25°	5732.6	5731.0	5771.8	5712.2	5517.8	5274.8	5072.6	4961.3	4937.8	4956.6	4988.0
27.5°	5908.1	5925.4	5945.8	5727.9	5345.4	4978.6	4773.2	4696.4	4719.9	4765.4	4795.2
30°	6132.3	6179.3	6135.4	5688.7	5097.7	4640.0	4444.0	4422.1	4486.4	4550.6	4582.0
32.5°	6350.2	6423.9	6317.3	5586.8	4777.9	4281.0	4129.0	4122.7	4201.1	4263.8	4307.7
35°	6525.8	6671.5	6453.7	5384.6	4408.0	3950.3	3839.0	3796.6	3824.9	3898.5	3948.7
37.5°	6754.6	6997.6	6547.7	5075.8	4006.7	3677.5	3547.4	3450.2	3425.1	3454.9	3480.0
40°	7173.2	7494.5	6591.6	4644.7	3614.8	3404.7	3273.1	3130.4	3031.7	2959.6	2961.1
42.5°	7856.6	8141.9	6563.4	4121.1	3252.7	3138.3	2989.3	2824.7	2664.9	2501.8	2489.3
45°	8966.5	9104.4	6478.7	3566.2	2934.5	2859.2	2719.7	2555.1	2341.9	2157.0	2139.7
47.5°	10742.5	10436.8	6347.1	3081.8	2653.9	2622.5	2494.0	2304.3	2078.6	1929.7	1917.1
50°	13164.4	12360.2	6282.8	2696.2	2406.2	2415.6	2310.6	2109.9	1896.8	1787.0	1774.5
52.5°	16061.2	14600.3	6406.6	2398.4	2207.1	2240.0	2161.7	1973.6	1794.9	1708.6	1696.1
55°	19066.3	16920.3	6539.9	2182.0	2019.0	2083.3	2056.6	1901.5	1740.0	1660.0	1649.1
57.5°	21638.6	18652.4	6273.4	2006.5	1851.3	1951.6	1975.1	1856.0	1711.8	1639.7	1627.1
60°	23257.9	19350.0	5574.3	1841.9	1718.0	1846.6	1928.1	1843.5	1722.8	1716.5	1707.1
62.5°	24026.0	19288.9	4525.6	1711.8	1635.0	1801.1	1962.6	1914.0	1848.2	1904.6	1909.3
65°	23681.2	18367.1	3370.3	1625.6	1575.4	1818.4	2066.0	2047.2	1884.2	1940.6	1948.5
67.5°	21411.3	16167.8	2495.6	1550.3	1509.6	1867.0	2254.2	2091.1	1813.7	1854.4	1829.3
70°	17305.9	12818.0	1925.0	1465.7	1442.2	1860.7	2338.8	2064.5	1736.9	1746.3	1678.9
72.5°	11933.9	8740.7	1566.0	1387.3	1345.0	1696.1	2279.2	1998.6	1672.6	1600.5	1511.1
75°	6489.7	4691.7	1330.9	1305.8	1174.1	1489.2	2169.5	1951.6	1614.6	1519.0	1468.8
77.5°	2553.6	1946.9	1155.3	1194.5	1026.8	1315.2	2047.2	1862.3	1534.6	1409.2	1384.2
80°	1042.4	993.8	957.8	1033.0	882.5	1150.6	1899.9	1757.2	1439.0	1307.3	1257.2
82.5°	591.0	617.6	744.6	815.1	716.4	1059.7	1829.3	1672.6	1324.6	1171.0	1111.4
85°	302.5	362.1	518.9	584.7	526.7	901.3	1685.1	1464.1	1062.8	896.6	901.3
87.5°	145.8	202.2	327.6	366.8	341.7	652.1	1258.8	1061.2	827.7	655.2	634.9
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)