

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: P383661

Luminaire Tested: **GAN-SA9B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383661
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-SA9B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 47259.3 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

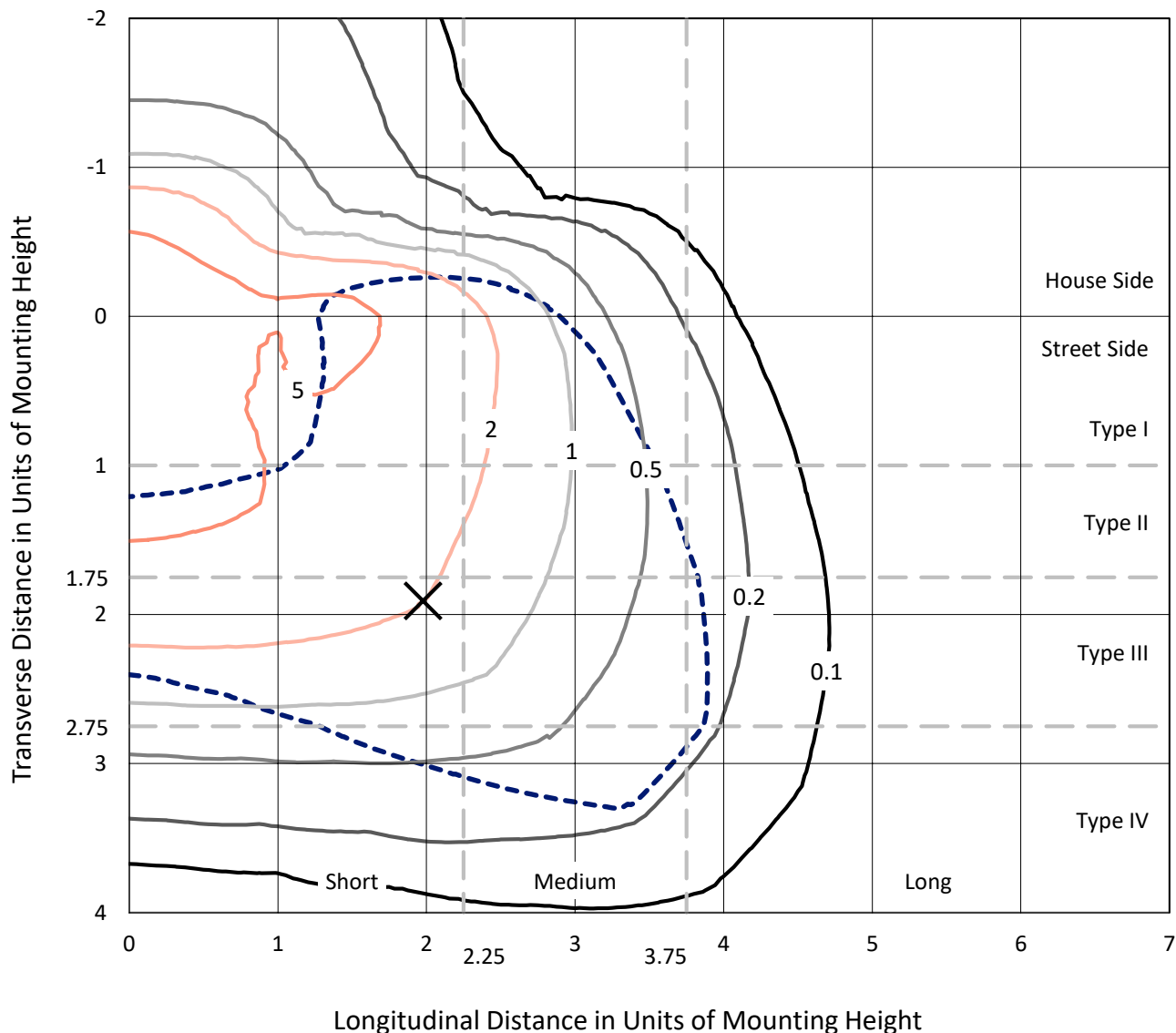
Input Watts (W): 374
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

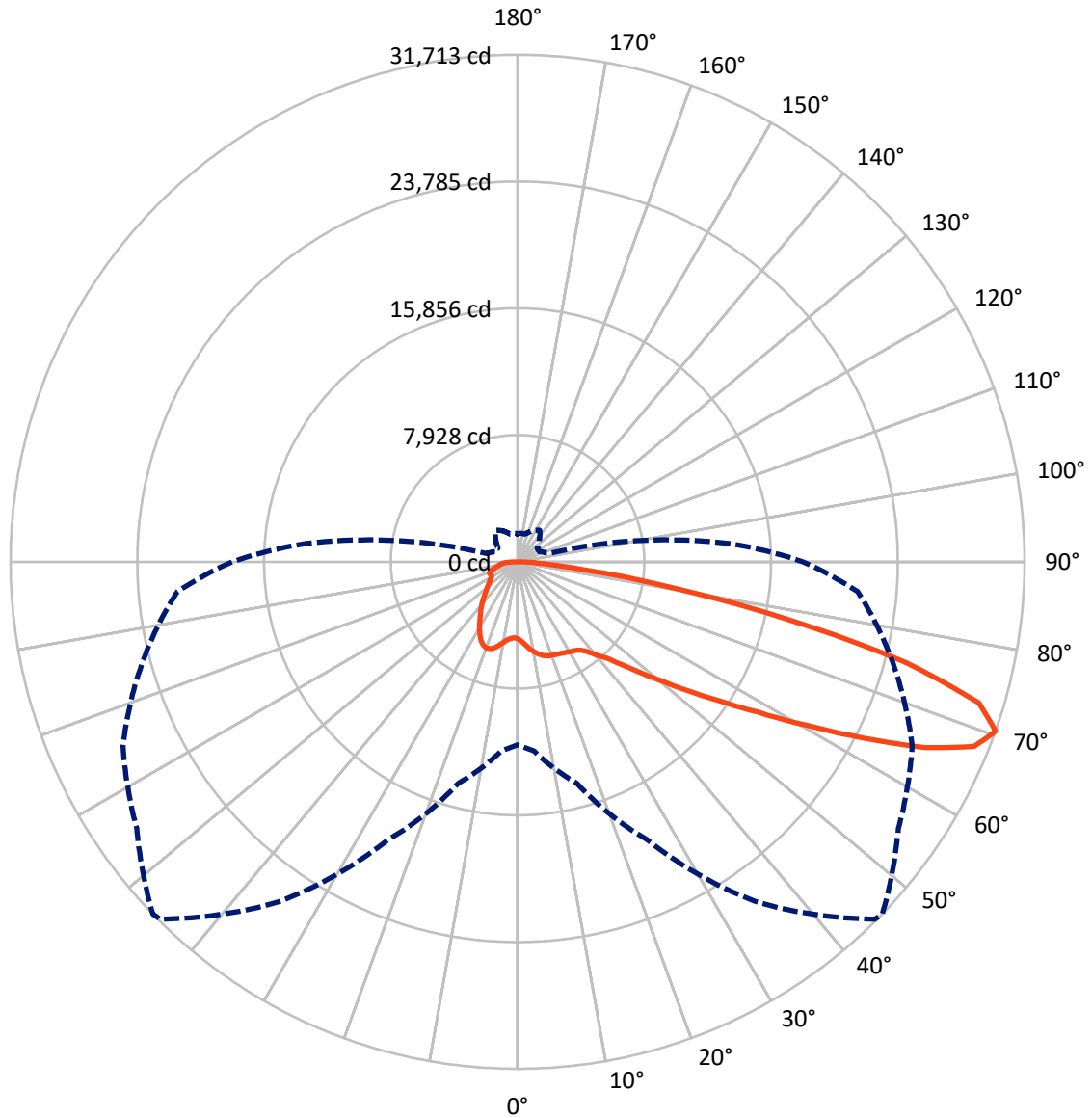
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	10831.7	0.0	10831.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	36427.6	0.0	36427.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	47259.3	0.0	47259.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.0
10°-20°	1635.3	3.5
20°-30°	2726.7	5.8
30°-40°	3869.3	8.2
40°-50°	5691.6	12.0
50°-60°	9638.7	20.4
60°-70°	13681.9	29.0
70°-80°	8311.9	17.6
80°-90°	1213.0	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°	47259.3	100.0
0°-180°	47259.3	100.0

Coefficient of Utilization

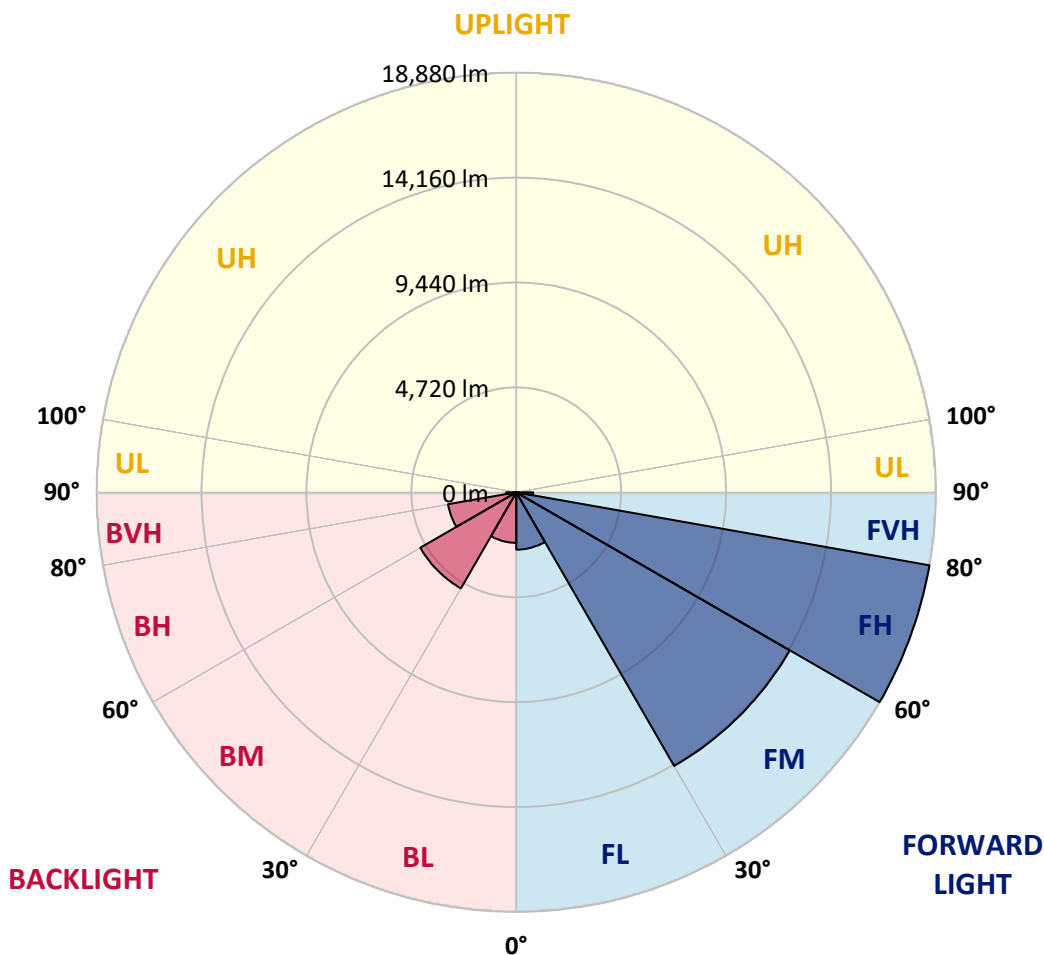


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2578.7	5.5			
FM (30°-60°)	14213.5	30.1			
FH (60°-80°)	18879.8	39.9			G5
FVH (80°-90°)	755.6	1.6			G5
BL (0°-30°)	2274.1	4.8	B3/2500		
BM (30°-60°)	4986.1	10.6	B3/5000		
BH (60°-80°)	3114.0	6.6	B4/5000		G4/5000
BVH (80°-90°)	457.4	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°	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8
2.5°	5055.8	5059.0	5065.5	5049.3	5004.0	4991.0	4986.2	4939.3	4908.6	4863.3	4824.5
5°	5460.1	5463.3	5453.7	5408.4	5308.1	5233.7	5227.2	5120.4	5023.5	4919.9	4842.3
7.5°	5882.3	5887.1	5856.4	5770.7	5629.9	5500.5	5492.5	5346.9	5199.7	5042.8	4926.4
10°	6255.8	6236.4	6186.3	6066.6	5900.0	5741.5	5735.1	5583.0	5413.2	5224.0	5068.7
12.5°	6504.9	6488.7	6424.0	6278.4	6095.7	5950.2	5937.2	5796.6	5631.6	5424.5	5238.6
15°	6642.4	6653.7	6566.4	6401.4	6223.5	6100.6	6089.2	5989.0	5841.8	5633.2	5419.7
17.5°	6660.2	6669.9	6585.8	6422.5	6276.9	6192.7	6187.9	6121.6	6014.8	5814.3	5591.1
20°	6556.7	6563.1	6493.5	6359.3	6263.9	6238.0	6236.4	6207.3	6128.1	5950.2	5733.4
22.5°	6406.3	6411.1	6361.0	6263.9	6231.6	6272.0	6283.3	6272.0	6215.4	6048.8	5845.0
25°	6369.1	6365.8	6314.0	6215.4	6242.9	6328.7	6343.2	6348.0	6309.2	6163.7	5987.3
27.5°	6548.6	6537.2	6438.6	6280.1	6297.9	6401.4	6420.8	6467.7	6443.4	6315.7	6149.1
30°	7067.7	7048.4	6846.1	6526.0	6438.6	6492.0	6516.3	6590.6	6595.5	6488.7	6364.2
32.5°	7944.3	7920.1	7557.8	6985.2	6676.3	6584.2	6606.8	6718.4	6778.2	6695.8	6561.5
35°	9052.2	9024.7	8549.2	7766.4	7074.2	6760.4	6776.6	6865.6	6985.2	6868.8	6690.9
37.5°	10207.0	10140.6	9683.0	8685.1	7706.6	7137.2	7137.2	7148.6	7205.2	6962.6	6843.0
40°	11355.3	11289.0	10875.0	9765.4	8525.0	7730.8	7693.7	7443.0	7397.7	7189.0	7148.6
42.5°	12422.7	12403.3	12159.1	10986.5	9485.7	8314.7	8262.9	7837.6	7847.3	7717.9	7719.5
45°	13558.1	13558.1	13359.1	12218.9	10604.8	9252.8	9201.0	8575.1	8672.1	8612.3	8756.3
47.5°	14484.8	14513.9	14486.4	13503.1	11906.8	10444.7	10350.9	9597.3	9868.9	10074.3	10493.2
50°	15431.0	15476.3	15481.1	14911.7	13480.4	11861.5	11754.7	10954.2	11560.7	12149.4	12972.6
52.5°	16804.1	16906.0	16500.0	16317.3	15408.4	13543.5	13438.4	12699.3	13711.7	14538.2	15956.6
55°	18076.9	17988.0	17698.5	17811.7	17472.0	15458.5	15379.2	14730.7	16108.6	17182.5	19024.6
57.5°	18765.9	18759.4	19050.5	19535.8	19697.5	17819.8	17753.4	17122.7	18811.2	19618.2	21905.2
60°	19574.5	19585.9	20307.2	21408.6	22075.0	20760.1	20730.9	20252.2	21436.1	21892.2	24164.5
62.5°	19687.8	19891.5	21133.6	23029.2	24300.4	24195.3	24259.9	23071.3	23784.5	23706.9	25851.4
65°	18385.9	18654.3	20902.3	23519.2	26512.9	27952.3	28012.2	25906.4	25636.3	25257.9	26454.6
67.5°	15717.3	16115.1	18557.3	22453.4	27242.4	30729.3	30813.4	28104.3	27172.8	25783.5	25002.4
70°	11437.7	11879.3	14337.6	19176.7	25942.0	31617.2	31712.7	29076.4	27231.0	24287.5	21343.9
72.5°	6909.2	7255.4	9281.8	14117.7	21895.5	29999.8	30169.7	27844.0	24861.6	20572.5	15760.9
75°	3034.1	3260.5	4488.1	8135.2	15675.2	24821.2	25033.0	23833.0	20200.4	14950.6	9315.8
77.5°	1292.2	1357.0	1840.6	3533.8	8861.3	16961.0	17252.1	17413.8	13705.3	8135.2	3936.6
80°	805.4	831.3	1041.6	1599.6	4146.9	9526.1	9839.8	10245.8	6805.7	2990.5	1374.8
82.5°	490.1	519.2	692.2	967.1	2159.1	4318.3	4468.7	4755.0	2641.1	1292.2	711.6
85°	294.4	315.4	423.8	611.4	1229.2	1698.2	1696.5	1876.1	1243.7	831.3	375.2
87.5°	140.7	156.9	226.5	317.0	619.5	637.3	596.7	676.0	755.3	545.0	189.2
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°	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8	4814.8
2.5°	4811.5	4805.1	4784.1	4767.8	4764.7	4755.0	4746.9	4751.7	4758.2	4759.8	4759.8
5°	4810.0	4792.2	4764.7	4753.3	4767.8	4787.3	4811.5	4843.9	4863.3	4877.9	4887.6
7.5°	4887.6	4853.6	4822.9	4816.4	4845.5	4897.2	4952.3	5020.2	5067.1	5099.5	5105.9
10°	5016.9	4974.9	4944.2	4950.6	5002.4	5076.8	5154.4	5241.7	5312.9	5356.6	5359.8
12.5°	5165.7	5125.3	5096.2	5123.7	5209.4	5300.0	5380.9	5456.9	5521.6	5565.3	5565.3
15°	5337.2	5308.1	5274.1	5337.2	5453.7	5534.5	5568.5	5605.7	5641.3	5673.6	5667.2
17.5°	5502.2	5474.7	5456.9	5531.3	5652.5	5689.8	5667.2	5639.6	5639.6	5657.4	5660.6
20°	5644.5	5620.2	5631.6	5704.3	5767.4	5728.6	5644.5	5557.1	5521.6	5531.3	5540.9
22.5°	5769.0	5757.7	5791.6	5825.6	5780.3	5644.5	5489.2	5371.1	5327.5	5324.3	5327.5
25°	5914.6	5913.0	5955.0	5893.5	5693.0	5442.3	5233.7	5118.9	5094.6	5114.0	5146.3
27.5°	6095.7	6113.5	6134.5	5909.7	5515.1	5136.6	4924.8	4845.5	4869.8	4916.7	4947.4
30°	6327.0	6375.5	6330.2	5869.3	5259.5	4787.3	4585.2	4562.5	4628.8	4695.1	4727.4
32.5°	6551.9	6627.9	6517.9	5764.1	4929.7	4416.9	4260.1	4253.5	4334.5	4399.1	4444.4
35°	6732.9	6883.4	6658.5	5555.6	4547.9	4075.7	3960.8	3917.2	3946.3	4022.3	4074.0
37.5°	6969.1	7219.8	6755.6	5236.9	4133.9	3794.3	3660.1	3559.7	3533.8	3564.6	3590.5
40°	7400.9	7732.5	6800.9	4792.2	3729.5	3512.9	3377.0	3229.8	3128.0	3053.5	3055.1
42.5°	8106.0	8400.4	6771.8	4252.0	3356.0	3237.9	3084.3	2914.4	2749.5	2581.2	2568.3
45°	9251.1	9393.4	6684.4	3679.4	3027.6	2950.0	2806.1	2636.3	2416.2	2225.5	2207.7
47.5°	11083.6	10768.2	6548.6	3179.7	2738.1	2705.8	2573.2	2377.5	2144.6	1990.9	1978.0
50°	13582.3	12752.7	6482.3	2781.8	2482.6	2492.3	2383.9	2176.9	1957.0	1843.7	1830.9
52.5°	16571.2	15063.8	6610.1	2474.6	2277.2	2311.2	2230.3	2036.2	1851.8	1762.9	1749.9
55°	19671.6	17457.5	6747.5	2251.4	2083.1	2149.5	2122.0	1961.8	1795.3	1712.7	1701.5
57.5°	22325.7	19244.7	6472.6	2070.2	1910.0	2013.5	2037.9	1914.9	1766.1	1691.7	1678.8
60°	23996.4	19964.4	5751.2	1900.4	1772.5	1905.2	1989.3	1901.9	1777.5	1771.0	1761.3
62.5°	24788.9	19901.3	4669.2	1766.1	1686.8	1858.3	2024.9	1974.8	1906.9	1965.1	1969.9
65°	24433.0	18950.3	3477.3	1677.2	1625.5	1876.1	2131.7	2112.2	1944.0	2002.3	2010.4
67.5°	22091.1	16681.1	2574.8	1599.6	1557.5	1926.3	2325.7	2157.6	1871.3	1913.3	1887.4
70°	17855.3	13224.9	1986.1	1512.2	1488.0	1919.7	2413.1	2130.0	1792.0	1801.7	1732.1
72.5°	12312.7	9018.2	1615.7	1431.3	1387.6	1749.9	2351.6	2062.1	1725.7	1651.3	1559.1
75°	6695.8	4840.7	1373.1	1347.2	1211.4	1536.5	2238.4	2013.5	1665.9	1567.2	1515.4
77.5°	2634.6	2008.7	1192.0	1232.4	1059.4	1357.0	2112.2	1921.4	1583.4	1454.0	1428.1
80°	1075.6	1025.4	988.2	1065.8	910.6	1187.2	1960.2	1813.1	1484.7	1348.9	1297.1
82.5°	609.7	637.3	768.2	841.0	739.1	1093.4	1887.4	1725.7	1366.7	1208.1	1146.6
85°	312.2	373.6	535.4	603.3	543.5	930.0	1738.6	1510.6	1096.5	925.1	930.0
87.5°	150.4	208.7	338.1	378.5	352.6	672.8	1298.7	1094.9	853.9	676.0	655.1
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)