

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: P383627

Luminaire Tested: **GAN-SA9A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38818.5 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

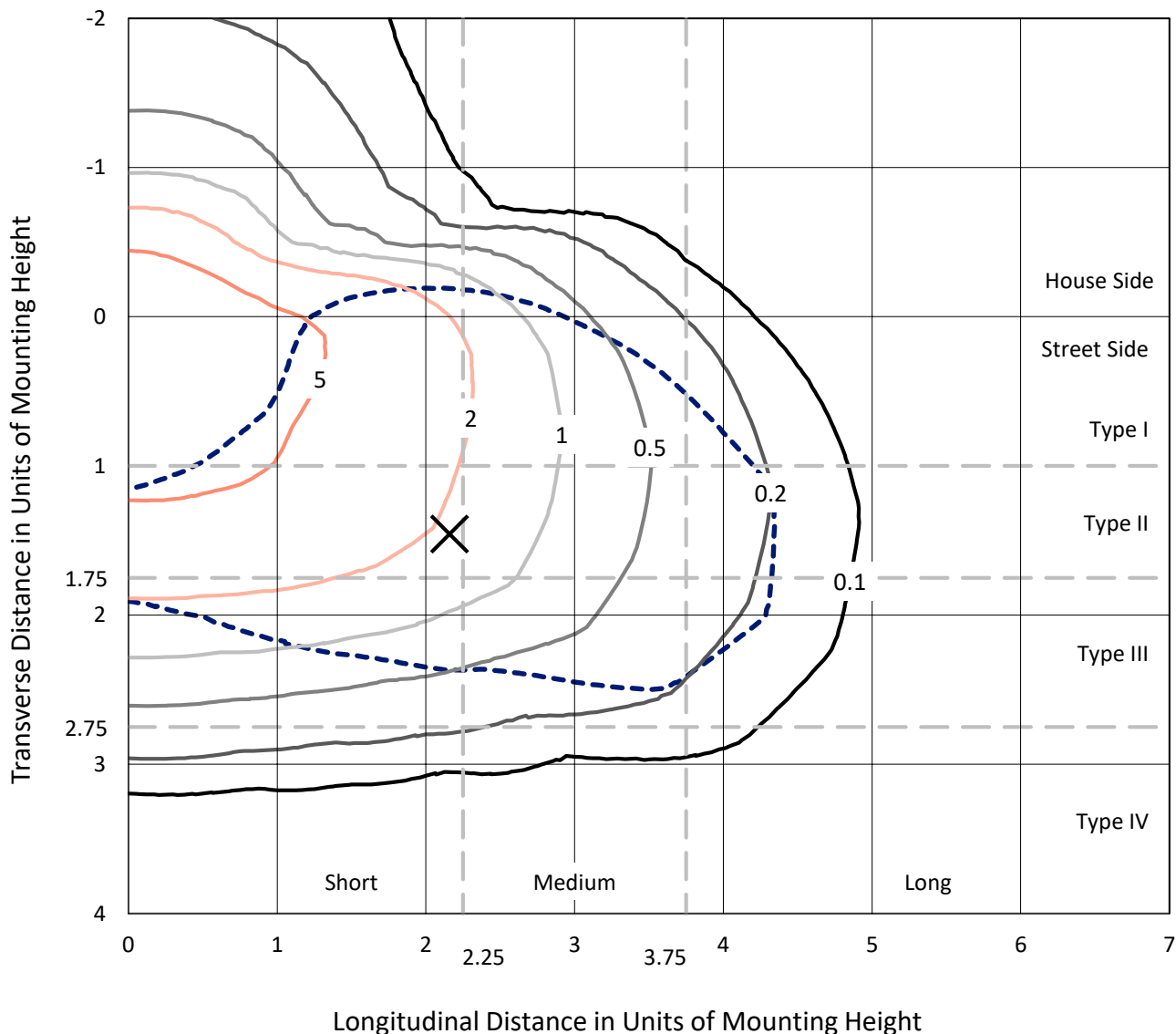
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

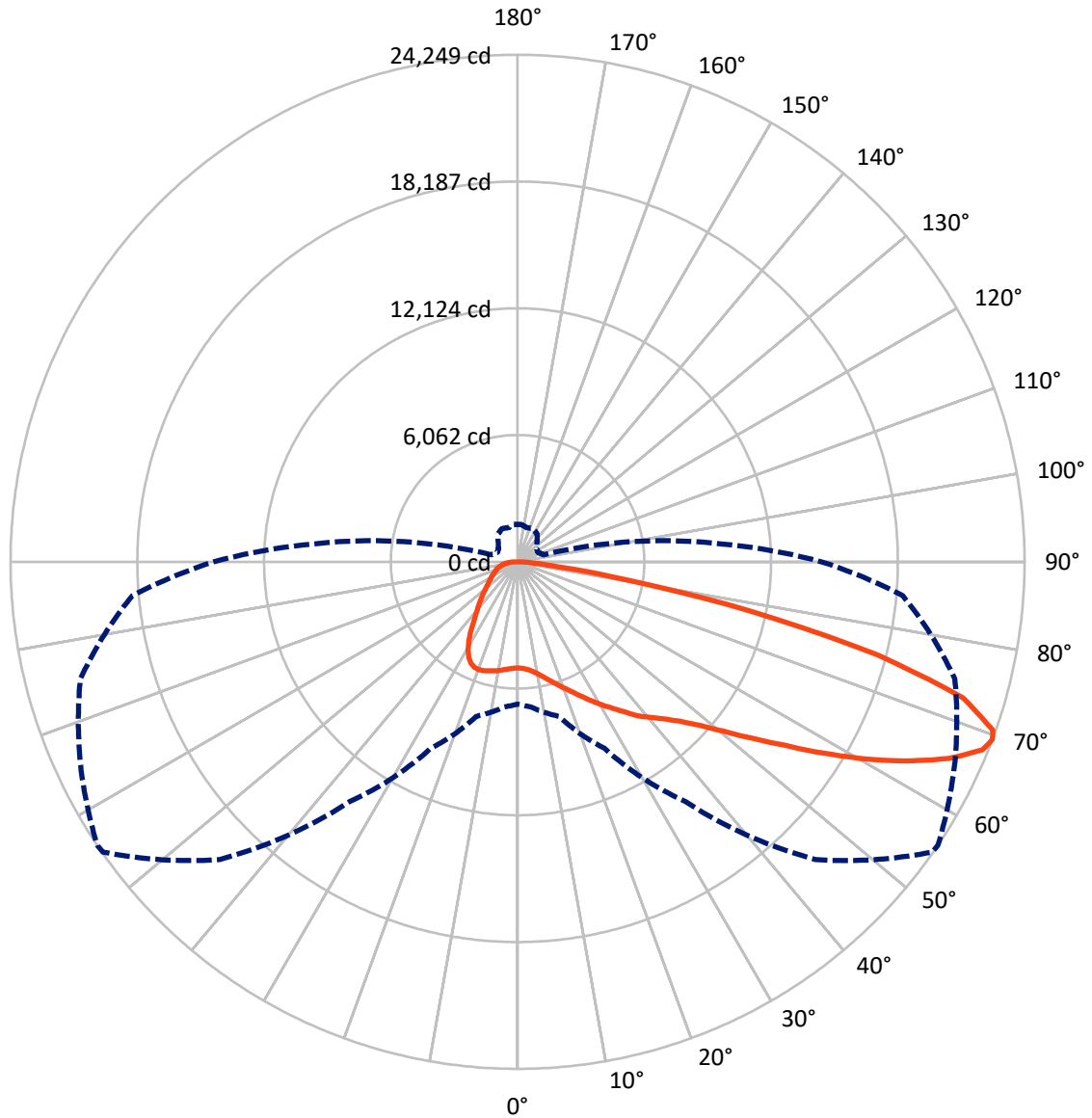
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8644.8	0.0	8644.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	30173.7	0.0	30173.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	38818.5	0.0	38818.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	1.3
10°-20°	1602.8	4.1
20°-30°	2797.8	7.2
30°-40°	4019.0	10.4
40°-50°	5562.1	14.3
50°-60°	8149.2	21.0
60°-70°	9935.4	25.6
70°-80°	5493.0	14.2
80°-90°	760.8	2.0
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°	38818.5	100.0
0°-180°	38818.5	100.0

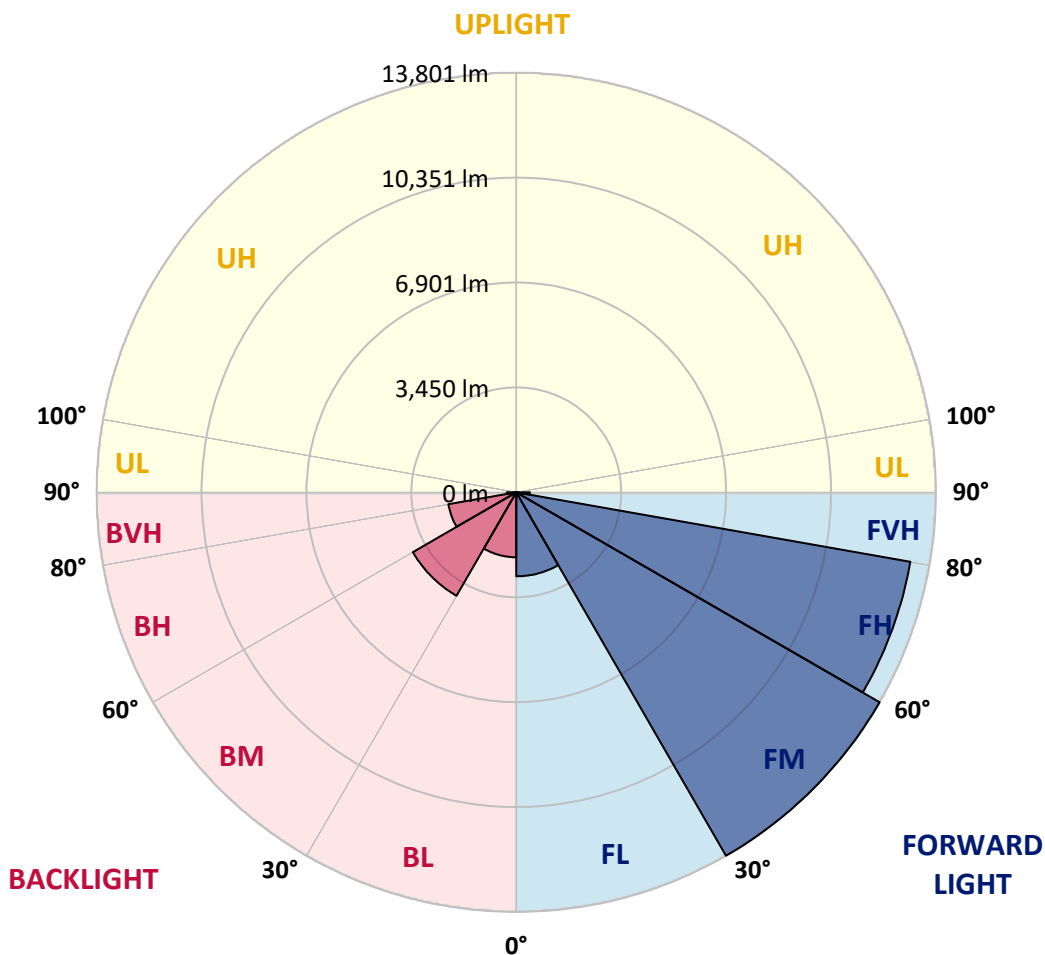


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2762.7	7.1			
FM (30°-60°)	13801.4	35.6			
FH (60°-80°)	13161.4	33.9			G5
FVH (80°-90°)	448.1	1.2			G3/500
BL (0°-30°)	2136.3	5.5	B3/2500		
BM (30°-60°)	3928.9	10.1	B3/5000		
BH (60°-80°)	2267.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	312.7	0.8			G3/500
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°	56°	65°	75°	85°
0°	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0
2.5°	5107.0	5112.4	5108.3	5119.0	5107.0	5115.0	5108.3	5108.3	5104.3	5092.3	5079.0
5°	5187.2	5197.9	5191.2	5201.9	5187.2	5189.9	5177.9	5177.9	5165.9	5140.5	5113.7
7.5°	5313.0	5325.0	5319.7	5330.3	5310.3	5310.3	5294.3	5292.9	5268.8	5227.4	5196.6
10°	5462.8	5478.8	5473.4	5489.5	5473.4	5478.8	5462.8	5462.8	5430.6	5371.8	5333.0
12.5°	5680.8	5700.8	5686.1	5684.8	5678.1	5688.8	5675.4	5672.7	5643.3	5563.0	5509.5
15°	5972.2	5993.7	5962.9	5960.2	5922.8	5918.8	5918.8	5914.8	5896.0	5799.7	5711.5
17.5°	6307.9	6314.6	6287.9	6245.0	6196.9	6166.2	6162.1	6172.8	6172.8	6060.5	5920.1
20°	6636.9	6648.9	6627.5	6579.3	6517.9	6472.4	6440.3	6461.7	6460.4	6326.6	6127.3
22.5°	6995.3	7023.3	6991.3	6929.7	6857.5	6806.7	6750.6	6769.3	6770.6	6606.1	6330.6
25°	7459.3	7433.8	7413.8	7326.9	7224.0	7171.8	7119.6	7138.4	7133.0	6907.0	6540.6
27.5°	7869.8	7875.2	7848.5	7756.2	7637.1	7522.2	7519.5	7531.5	7511.4	7220.0	6738.5
30°	8347.2	8349.9	8312.5	8229.6	8099.8	7951.4	7916.7	7936.7	7893.9	7516.8	6947.1
32.5°	8821.9	8835.4	8793.9	8693.6	8589.2	8408.7	8339.2	8352.6	8245.6	7820.3	7162.4
35°	9237.9	9256.6	9243.2	9176.3	9062.7	8907.6	8824.6	8816.6	8684.3	8192.1	7447.3
37.5°	9661.7	9679.2	9664.4	9608.3	9562.8	9398.3	9354.2	9354.2	9124.2	8571.9	7809.6
40°	10097.7	10124.4	10107.1	10029.5	9990.8	9915.9	9810.2	9784.8	9536.1	9027.9	8400.7
42.5°	10502.9	10537.7	10607.3	10561.8	10482.9	10493.5	10280.9	10267.5	10085.7	9701.9	9143.0
45°	11078.0	11128.7	11246.5	11211.6	11195.6	11136.7	10884.0	10872.0	10802.5	10608.6	10064.3
47.5°	11705.1	11774.7	11987.2	11994.0	12166.5	12055.4	11711.8	11670.3	11686.4	11694.5	11188.9
50°	12282.8	12359.0	12708.1	12872.6	13279.1	13303.2	12753.5	12716.1	12779.0	12963.5	12499.4
52.5°	12744.2	12840.5	13276.4	13784.6	14481.3	14679.2	14036.0	14007.9	14054.7	14372.9	13981.1
55°	13082.5	13186.8	13661.5	14586.9	15699.6	16048.6	15512.3	15485.6	15515.0	15920.1	15592.5
57.5°	13161.4	13186.8	13875.5	15127.2	16727.9	17566.4	17319.0	17265.5	17121.1	17474.1	17371.1
60°	12791.0	12892.6	13699.0	15317.1	17523.6	19062.8	19207.2	19140.3	18735.1	19024.0	18941.1
62.5°	12039.4	12221.3	13039.7	15028.2	17835.1	20285.0	21059.3	20979.1	20281.0	20468.2	20069.7
65°	10811.8	10889.4	11749.2	14032.0	17439.3	21067.3	22710.9	22670.7	21792.2	21499.3	20278.4
67.5°	8616.1	8761.8	9491.9	11949.8	15819.9	20975.1	23987.9	23983.9	22779.0	21881.8	19538.8
69°	6806.7	6957.8	7653.2	9843.7	13998.6	20131.2	24201.9	24248.7	23057.2	21649.1	18482.4
70°	5426.6	5601.9	6079.2	8291.1	12381.8	19018.7	24024.1	24108.3	23003.7	21265.3	17507.5
72.5°	2309.5	2451.2	2790.9	4273.9	7546.2	14201.8	21966.0	22284.3	21764.0	19462.6	14469.3
75°	1008.3	1052.5	1206.3	1742.5	3349.8	7729.4	17208.0	17796.4	18609.4	16451.1	10778.4
77.5°	738.2	756.9	841.2	1023.0	1503.1	2919.3	11065.9	11408.3	13420.8	11971.2	6611.5
80°	571.0	584.4	649.9	751.6	981.6	1180.8	5046.8	5341.0	7546.2	6148.8	2753.5
82.5°	454.7	464.0	509.5	553.6	678.0	715.4	1675.6	1858.8	2785.5	1698.3	728.8
85°	422.5	433.3	449.3	403.8	434.6	419.9	724.8	758.2	841.2	667.3	304.9
87.5°	191.2	226.0	445.3	314.3	231.3	184.5	296.9	310.2	349.1	350.4	135.1
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°	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0	5075.0
2.5°	5087.0	5083.0	5089.6	5073.6	5093.7	5092.3	5085.6	5088.3	5101.7	5100.3	5101.7
5°	5117.7	5115.0	5123.0	5111.0	5135.2	5143.2	5144.5	5156.5	5171.2	5175.2	5175.2
7.5°	5195.3	5195.3	5199.3	5183.2	5199.3	5197.9	5191.2	5203.3	5218.1	5219.4	5218.1
10°	5329.0	5330.3	5323.7	5282.2	5268.8	5232.7	5199.3	5200.6	5219.4	5234.1	5238.1
12.5°	5497.5	5492.1	5462.8	5386.5	5330.3	5256.8	5222.1	5220.7	5239.4	5251.4	5255.5
15°	5690.1	5675.4	5599.2	5474.8	5375.9	5303.6	5247.4	5234.1	5223.4	5210.0	5211.4
17.5°	5871.9	5838.5	5711.5	5539.0	5434.6	5338.4	5230.1	5143.2	5083.0	5048.1	5037.5
20°	6056.5	5991.0	5807.7	5599.2	5466.8	5291.6	5083.0	4906.5	4796.8	4746.0	4736.6
22.5°	6225.0	6119.3	5897.3	5662.0	5441.4	5133.8	4806.1	4549.4	4396.9	4328.7	4334.1
25°	6389.5	6242.4	5991.0	5706.1	5313.0	4855.6	4421.0	4105.4	3928.9	3852.7	3850.0
27.5°	6533.9	6366.8	6092.6	5670.1	5073.6	4459.8	3965.0	3657.4	3510.4	3444.8	3434.2
30°	6699.7	6523.2	6227.7	5532.3	4723.2	4002.5	3519.7	3303.1	3198.7	3133.3	3121.2
32.5°	6901.6	6735.8	6338.6	5282.2	4275.2	3525.1	3172.0	3020.9	2926.0	2852.4	2839.0
35°	7195.8	7016.7	6366.8	4923.8	3783.1	3147.9	2916.6	2761.5	2633.1	2538.1	2528.8
37.5°	7564.9	7368.4	6302.6	4459.8	3305.7	2903.2	2704.0	2512.8	2345.5	2211.9	2190.4
40°	8097.2	7800.3	6124.7	3924.9	2954.0	2714.6	2496.6	2278.8	2071.4	1915.0	1884.2
42.5°	8736.4	8307.1	5851.9	3392.7	2695.9	2523.5	2290.8	2020.6	1822.7	1711.7	1695.7
45°	9549.5	8834.0	5473.4	2927.3	2441.9	2332.2	2068.8	1820.1	1697.0	1615.4	1602.1
47.5°	10477.5	9425.1	5076.3	2548.8	2226.6	2153.0	1890.9	1730.4	1632.8	1568.6	1556.6
50°	11618.2	10092.4	4655.0	2238.6	2009.9	1937.7	1806.6	1681.0	1603.4	1553.9	1541.9
52.5°	12904.6	10845.3	4351.4	1993.9	1830.7	1778.6	1762.5	1654.2	1591.4	1553.9	1541.9
55°	14290.0	11611.6	4023.8	1787.9	1675.6	1690.3	1733.1	1656.9	1614.1	1568.6	1551.2
57.5°	15676.8	12403.2	3658.7	1614.1	1552.6	1624.8	1713.0	1662.3	1626.1	1582.0	1565.9
60°	16773.4	12904.6	3093.1	1468.3	1455.0	1552.6	1664.9	1622.1	1575.3	1576.6	1573.9
62.5°	17285.5	12877.9	2468.6	1338.6	1357.4	1455.0	1587.4	1559.2	1520.5	1572.6	1576.6
65°	16998.0	12236.0	1921.7	1220.9	1253.0	1353.4	1507.1	1528.5	1541.9	1642.1	1655.5
67.5°	15791.8	10987.0	1488.4	1118.0	1158.1	1283.8	1515.2	1664.9	1682.3	1787.9	1786.6
69°	14544.2	9815.5	1293.2	1064.5	1111.2	1301.2	1619.4	1751.9	1686.3	1798.6	1782.6
70°	13498.4	8888.8	1188.8	1028.3	1089.9	1331.9	1689.0	1750.5	1666.3	1762.5	1735.8
72.5°	10396.0	6394.8	1008.3	961.5	1017.6	1274.5	1709.0	1711.7	1619.4	1638.1	1592.7
75°	7130.3	4041.2	879.9	870.5	908.0	1148.7	1644.8	1635.5	1497.7	1471.0	1433.6
77.5°	3931.6	2052.7	747.6	783.6	809.0	1017.6	1495.0	1481.7	1368.1	1311.9	1298.5
80°	1516.5	898.7	631.2	696.7	712.7	881.2	1310.5	1298.5	1203.6	1131.4	1111.2
82.5°	572.3	470.7	521.6	603.1	597.8	727.4	1109.9	1103.2	1011.0	905.4	873.2
85°	264.7	282.2	413.2	497.4	458.7	538.9	888.0	900.0	787.6	662.0	662.0
87.5°	112.3	157.8	292.9	375.8	308.9	363.8	651.2	621.8	571.0	395.8	371.8
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)