

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: P318340

Luminaire Tested: **GAN-SA6D-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318340
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-SA6D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38818 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

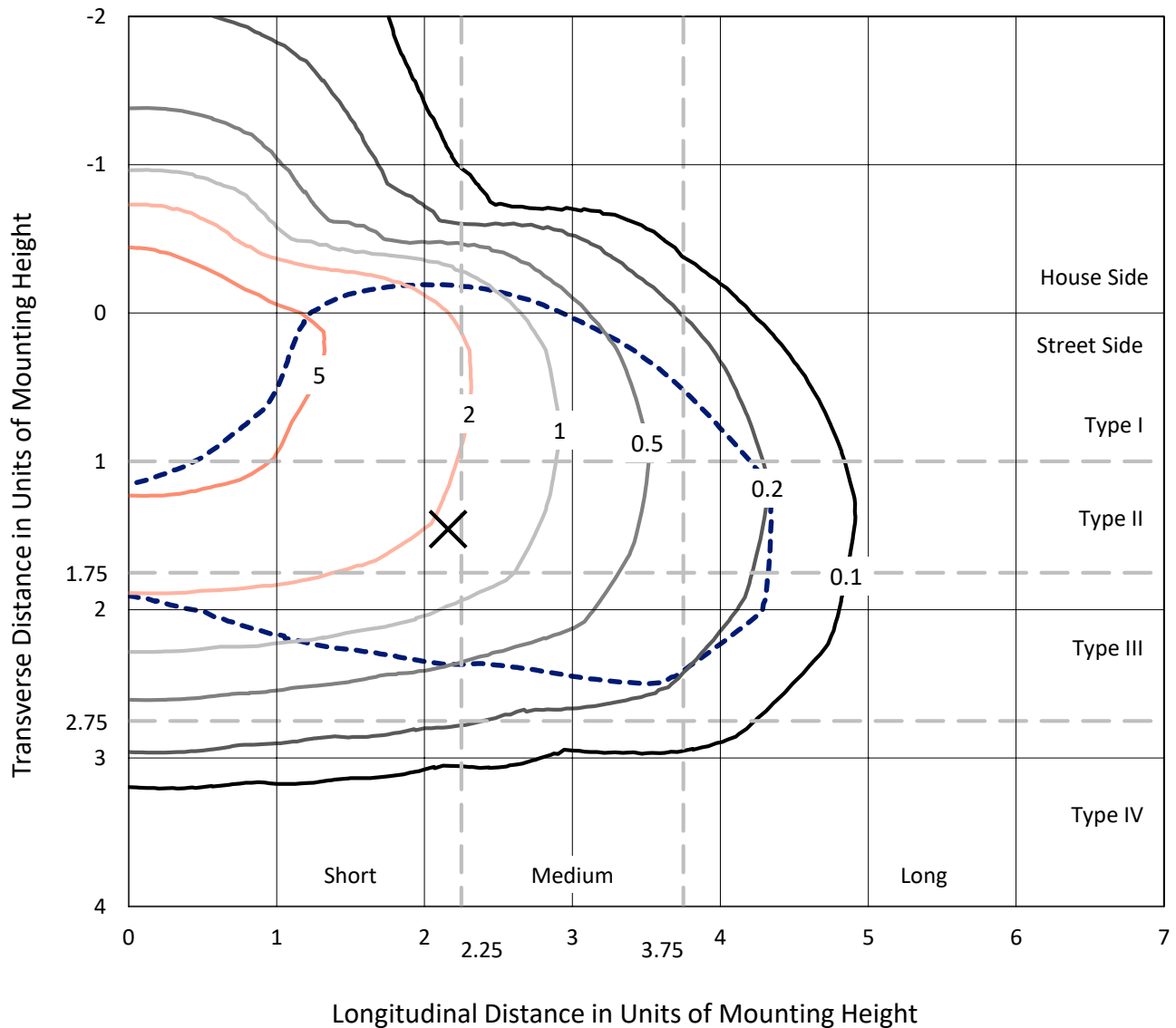
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

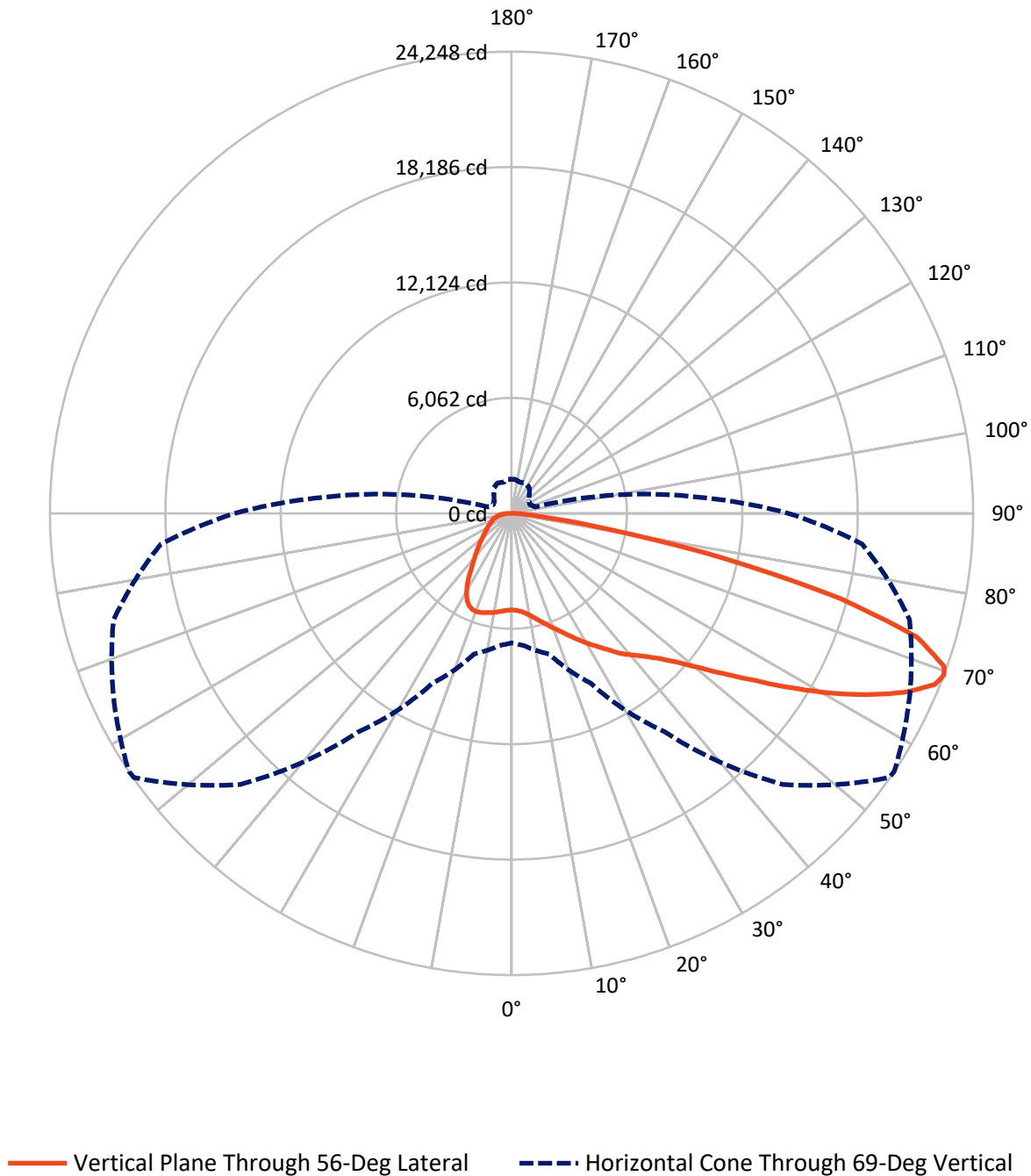
× Max cd
- - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8644.7	0.0	8644.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	30173.3	0.0	30173.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	38818.0	0.0	38818.0
	% Fixture	100.0	0.0	100.0

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°	4018.9	10.4
40°-50°	5562.0	14.3
50°-60°	8149.1	21.0
60°-70°	9935.3	25.6
70°-80°	5492.9	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°	38818.0	100.0
0°-180°	38818.0	100.0

Coefficient of Utilization



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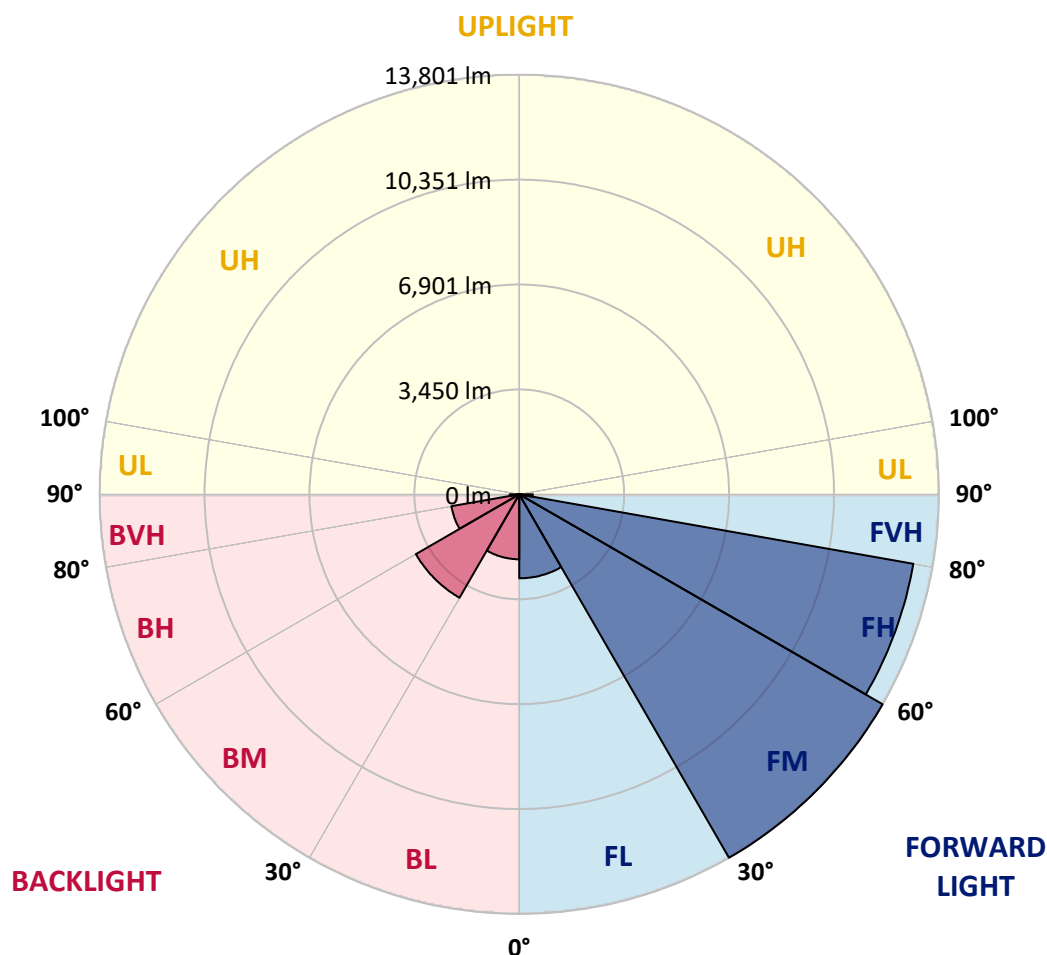
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2762.7	7.1			
FM	(30°-60°)	13801.2	35.6			
FH	(60°-80°)	13161.3	33.9			G5
FVH	(80°-90°)	448.1	1.2			G3/500
BL	(0°-30°)	2136.3	5.5	B3/2500		
BM	(30°-60°)	3928.8	10.1	B3/5000		
BH	(60°-80°)	2266.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	312.6	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°	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9
2.5°	5107.0	5112.3	5108.3	5119.0	5107.0	5115.0	5108.3	5108.3	5104.3	5092.3	5078.9
5°	5187.2	5197.9	5191.2	5201.9	5187.2	5189.9	5177.8	5177.8	5165.8	5140.4	5113.6
7.5°	5312.9	5324.9	5319.6	5330.3	5310.2	5310.2	5294.2	5292.8	5268.8	5227.3	5196.6
10°	5462.7	5478.7	5473.4	5489.4	5473.4	5478.7	5462.7	5462.7	5430.6	5371.7	5333.0
12.5°	5680.6	5700.7	5686.0	5684.7	5678.0	5688.7	5675.3	5672.6	5643.2	5563.0	5509.5
15°	5972.2	5993.6	5962.8	5960.1	5922.7	5918.7	5918.7	5914.7	5895.9	5799.7	5711.4
17.5°	6307.8	6314.5	6287.8	6245.0	6196.8	6166.1	6162.1	6172.8	6172.8	6060.4	5920.0
20°	6636.8	6648.8	6627.4	6579.3	6517.8	6472.3	6440.2	6461.6	6460.3	6326.5	6127.3
22.5°	6995.2	7023.2	6991.2	6929.6	6857.4	6806.6	6750.4	6769.2	6770.5	6606.0	6330.5
25°	7459.2	7433.8	7413.7	7326.8	7223.8	7171.7	7119.5	7138.2	7132.9	6906.9	6540.5
27.5°	7869.7	7875.1	7848.3	7756.1	7637.0	7522.0	7519.4	7531.4	7511.3	7219.8	6738.4
30°	8347.1	8349.8	8312.4	8229.4	8099.7	7951.3	7916.5	7936.6	7893.8	7516.7	6947.0
32.5°	8821.8	8835.2	8793.8	8693.5	8589.2	8408.6	8339.1	8352.5	8245.5	7820.2	7162.3
35°	9237.7	9256.5	9243.1	9176.2	9062.6	8907.4	8824.5	8816.5	8684.1	8192.0	7447.2
37.5°	9661.6	9679.0	9664.3	9608.2	9562.7	9398.2	9354.1	9354.1	9124.1	8571.8	7809.5
40°	10097.6	10124.3	10106.9	10029.4	9990.6	9915.7	9810.1	9784.7	9535.9	9027.8	8400.6
42.5°	10502.8	10537.5	10607.1	10561.6	10482.7	10493.4	10280.8	10267.4	10085.6	9701.8	9142.8
45°	11077.8	11128.6	11246.3	11211.5	11195.5	11136.6	10883.9	10871.9	10802.3	10608.4	10064.2
47.5°	11705.0	11774.5	11987.1	11993.8	12166.3	12055.3	11711.6	11670.2	11686.2	11694.3	11188.8
50°	12282.7	12358.9	12707.9	12872.4	13278.9	13303.0	12753.4	12715.9	12778.8	12963.3	12499.3
52.5°	12744.0	12840.3	13276.2	13784.4	14481.1	14679.0	14035.8	14007.7	14054.5	14372.8	13981.0
55°	13082.3	13186.6	13661.4	14586.7	15699.3	16048.4	15512.1	15485.4	15514.8	15920.0	15592.4
57.5°	13161.2	13186.6	13875.3	15127.0	16727.7	17566.1	17318.7	17265.3	17120.8	17473.9	17370.9
60°	12790.8	12892.4	13698.8	15316.9	17523.3	19062.5	19206.9	19140.1	18734.9	19023.7	18940.8
62.5°	12039.3	12221.1	13039.5	15028.0	17834.9	20284.8	21059.0	20978.8	20280.8	20468.0	20069.5
65°	10811.7	10889.2	11749.1	14031.8	17439.1	21067.1	22710.5	22670.4	21791.8	21499.0	20278.1
67.5°	8615.9	8761.7	9491.8	11949.7	15819.7	20974.8	23987.6	23983.6	22778.7	21881.4	19538.6
69°	6806.6	6957.7	7653.1	9843.5	13998.3	20131.0	24201.6	24248.4	23056.9	21648.8	18482.2
70°	5426.6	5601.7	6079.1	8291.0	12381.6	19018.4	24023.7	24108.0	23003.4	21265.0	17507.3
72.5°	2309.4	2451.2	2790.8	4273.9	7546.1	14201.6	21965.7	22284.0	21763.8	19462.4	14469.1
75°	1008.3	1052.4	1206.2	1742.4	3349.8	7729.3	17207.8	17796.1	18609.2	16450.9	10778.2
77.5°	738.2	756.9	841.1	1023.0	1503.1	2919.2	11065.8	11408.1	13420.7	11971.1	6611.4
80°	571.0	584.4	649.9	751.5	981.5	1180.8	5046.8	5341.0	7546.1	6148.7	2753.4
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°	422.6	433.3	449.3	403.8	434.6	419.9	724.8	758.2	841.1	667.3	304.9
87.5°	191.2	226.0	445.3	314.3	231.3	184.5	296.9	310.2	349.0	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°	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9	5074.9
2.5°	5086.9	5082.9	5089.6	5073.5	5093.6	5092.3	5085.6	5088.2	5101.6	5100.3	5101.6
5°	5117.7	5115.0	5123.0	5111.0	5135.0	5143.1	5144.4	5156.4	5171.2	5175.2	5175.2
7.5°	5195.2	5195.2	5199.2	5183.2	5199.2	5197.9	5191.2	5203.2	5218.0	5219.3	5218.0
10°	5328.9	5330.3	5323.6	5282.1	5268.8	5232.7	5199.2	5200.6	5219.3	5234.0	5238.0
12.5°	5497.4	5492.1	5462.7	5386.4	5330.3	5256.7	5222.0	5220.6	5239.4	5251.4	5255.4
15°	5690.0	5675.3	5599.1	5474.7	5375.8	5303.5	5247.4	5234.0	5223.3	5209.9	5211.3
17.5°	5871.9	5838.4	5711.4	5538.9	5434.6	5338.3	5230.0	5143.1	5082.9	5048.1	5037.4
20°	6056.4	5990.9	5807.7	5599.1	5466.7	5291.5	5082.9	4906.4	4796.7	4745.9	4736.5
22.5°	6224.9	6119.3	5897.3	5661.9	5441.3	5133.7	4806.1	4549.3	4396.9	4328.7	4334.0
25°	6389.4	6242.3	5990.9	5706.1	5312.9	4855.6	4421.0	4105.4	3928.8	3852.6	3849.9
27.5°	6533.8	6366.7	6092.5	5669.9	5073.5	4459.7	3965.0	3657.4	3510.3	3444.8	3434.1
30°	6699.6	6523.1	6227.6	5532.2	4723.2	4002.4	3519.6	3303.0	3198.7	3133.2	3121.1
32.5°	6901.6	6735.7	6338.6	5282.1	4275.2	3525.0	3172.0	3020.9	2925.9	2852.4	2839.0
35°	7195.7	7016.6	6366.7	4923.8	3783.1	3147.9	2916.5	2761.4	2633.0	2538.1	2528.7
37.5°	7564.8	7368.3	6302.5	4459.7	3305.7	2903.2	2703.9	2512.7	2345.5	2211.8	2190.4
40°	8097.1	7800.2	6124.6	3924.8	2954.0	2714.6	2496.6	2278.7	2071.4	1914.9	1884.2
42.5°	8736.3	8307.0	5851.8	3392.6	2695.9	2523.4	2290.7	2020.6	1822.7	1711.7	1695.6
45°	9549.3	8833.9	5473.4	2927.2	2441.8	2332.2	2068.7	1820.0	1697.0	1615.4	1602.0
47.5°	10477.4	9424.9	5076.2	2548.8	2226.5	2153.0	1890.9	1730.4	1632.8	1568.6	1556.6
50°	11618.0	10092.2	4655.0	2238.6	2009.9	1937.7	1806.6	1680.9	1603.4	1553.9	1541.9
52.5°	12904.5	10845.1	4351.4	1993.8	1830.7	1778.5	1762.5	1654.2	1591.3	1553.9	1541.9
55°	14289.9	11611.4	4023.8	1787.9	1675.6	1690.3	1733.1	1656.9	1614.1	1568.6	1551.2
57.5°	15676.6	12403.0	3658.7	1614.1	1552.5	1624.8	1713.0	1662.2	1626.1	1582.0	1565.9
60°	16773.1	12904.5	3093.1	1468.3	1454.9	1552.5	1664.9	1622.1	1575.3	1576.6	1573.9
62.5°	17285.3	12877.7	2468.6	1338.6	1357.3	1454.9	1587.3	1559.2	1520.5	1572.6	1576.6
65°	16997.8	12235.9	1921.6	1220.9	1253.0	1353.3	1507.1	1528.5	1541.9	1642.1	1655.5
67.5°	15791.6	10986.9	1488.4	1117.9	1158.1	1283.8	1515.1	1664.9	1682.3	1787.9	1786.6
69°	14543.9	9815.4	1293.1	1064.5	1111.3	1301.1	1619.4	1751.8	1686.3	1798.6	1782.6
70°	13498.2	8888.7	1188.8	1028.3	1089.9	1331.9	1688.9	1750.5	1666.2	1762.5	1735.8
72.5°	10395.8	6394.7	1008.3	961.5	1017.6	1274.4	1709.0	1711.7	1619.4	1638.1	1592.7
75°	7130.2	4041.2	879.9	870.6	908.0	1148.7	1644.8	1635.5	1497.7	1471.0	1433.5
77.5°	3931.5	2052.7	747.5	783.6	809.0	1017.6	1495.0	1481.7	1368.0	1311.8	1298.5
80°	1516.4	898.6	631.2	696.7	712.8	881.2	1310.5	1298.5	1203.5	1131.3	1111.3
82.5°	572.3	470.7	521.5	603.1	597.8	727.5	1109.9	1103.2	1011.0	905.3	873.2
85°	264.8	282.2	413.2	497.5	458.7	538.9	887.9	900.0	787.6	661.9	661.9
87.5°	112.3	157.8	292.9	375.8	308.9	363.7	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)