

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: P268720

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T4W-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39847.2 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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: 28.75 FT

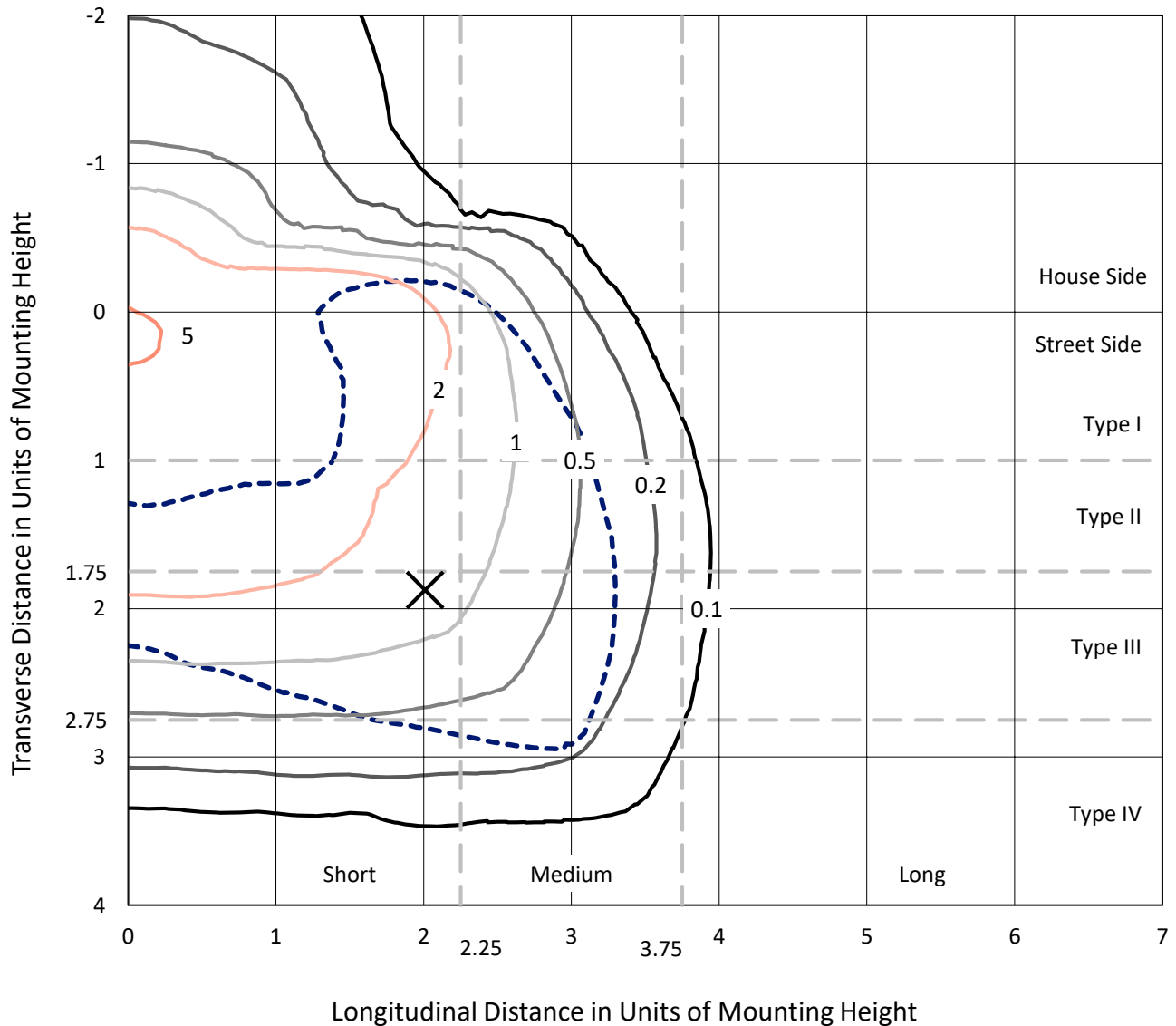


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

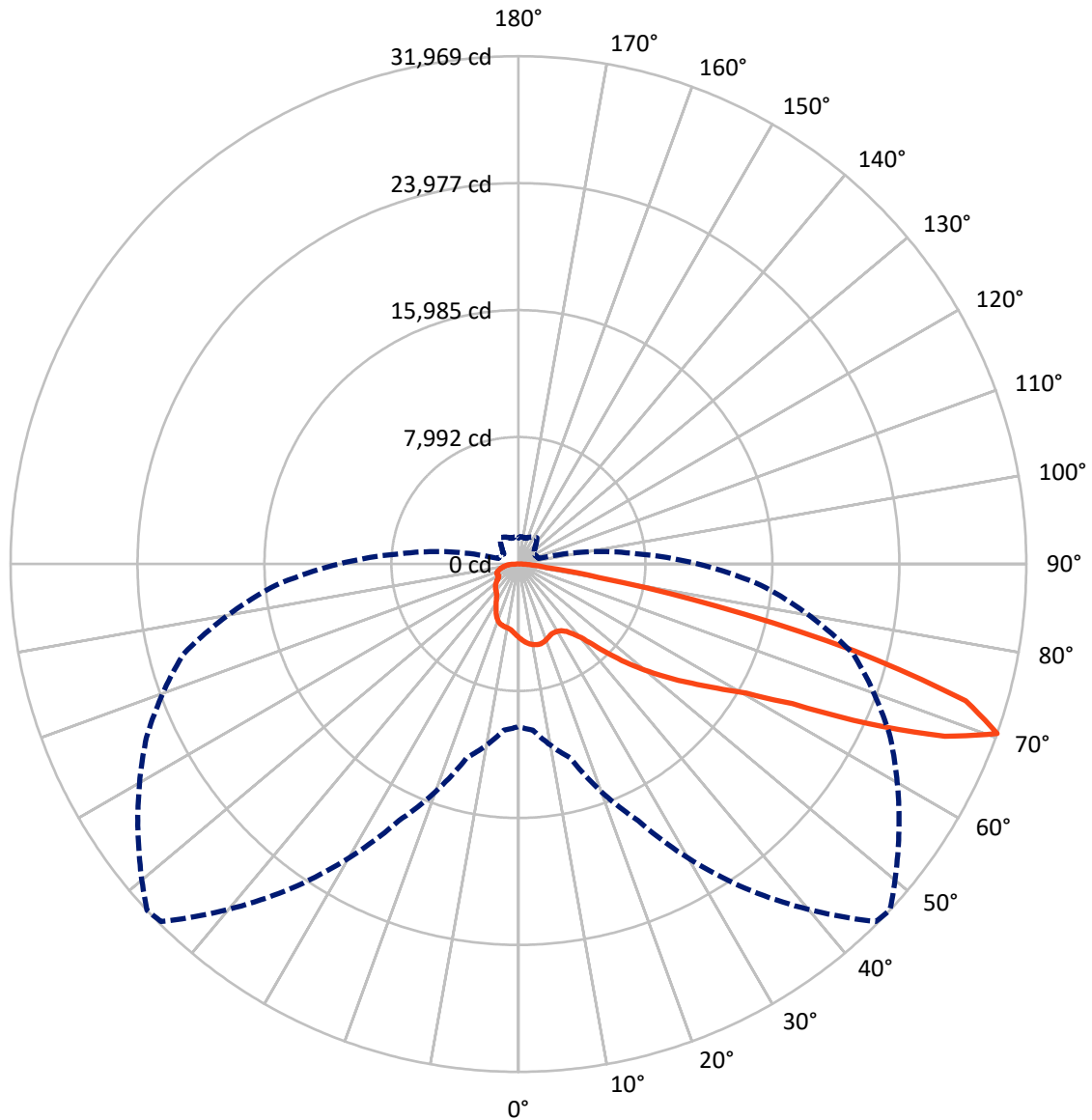


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8312.9	0.0	8312.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	31534.3	0.0	31534.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	39847.2	0.0	39847.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.0	1.1
10°-20°	1299.7	3.3
20°-30°	1919.3	4.8
30°-40°	2789.6	7.0
40°-50°	5020.4	12.6
50°-60°	8697.2	21.8
60°-70°	12413.5	31.2
70°-80°	6372.4	16.0
80°-90°	892.2	2.2
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°	39847.2	100.0
0°-180°	39847.2	100.0

Coefficient of Utilization



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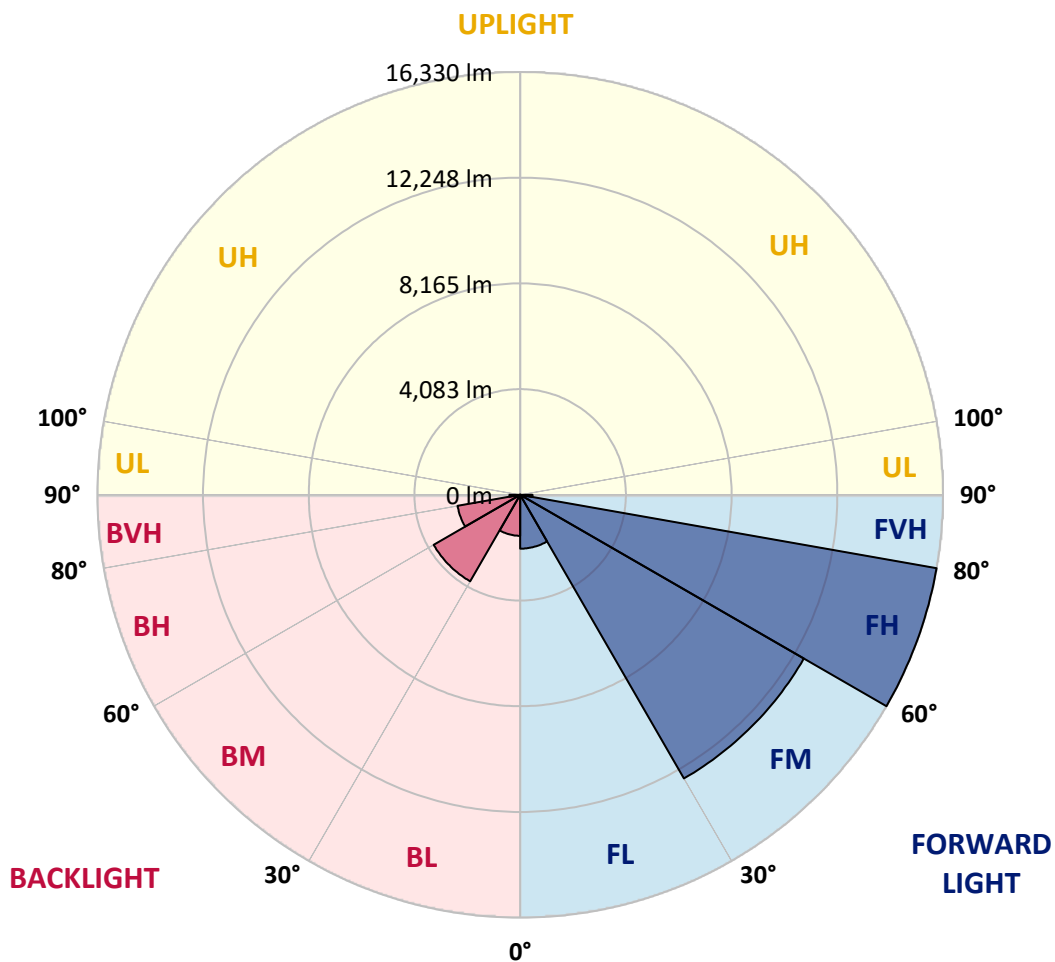
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2079.1	5.2			
FM	(30°-60°)	12648.6	31.7			
FH	(60°-80°)	16330.5	41.0			G5
FVH	(80°-90°)	476.1	1.2			G3/500
BL	(0°-30°)	1582.8	4.0	B3/2500		
BM	(30°-60°)	3858.6	9.7	B3/5000		
BH	(60°-80°)	2455.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	416.1	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4
2.5°	4895.0	4885.3	4881.3	4873.6	4864.0	4815.5	4805.8	4770.9	4722.4	4671.9	4619.7
5°	5216.6	5214.8	5193.5	5154.7	5092.6	4986.0	4960.8	4875.6	4761.1	4650.6	4540.2
7.5°	5499.8	5482.3	5441.7	5364.0	5255.4	5110.1	5075.2	4956.9	4800.0	4648.6	4499.4
10°	5707.2	5697.5	5608.3	5501.7	5360.1	5199.3	5158.5	5026.7	4854.3	4662.4	4476.2
12.5°	5825.4	5806.0	5703.2	5575.3	5406.7	5249.6	5208.9	5075.2	4881.3	4662.4	4443.2
15°	5817.7	5804.0	5701.4	5561.8	5391.2	5253.6	5216.6	5083.0	4875.6	4642.9	4400.5
17.5°	5662.6	5668.5	5581.2	5443.5	5304.0	5199.3	5166.3	5042.2	4836.7	4604.2	4350.2
20°	5391.2	5418.3	5360.1	5238.0	5160.6	5088.8	5067.5	4962.7	4776.6	4547.8	4295.9
22.5°	5119.8	5145.0	5121.7	5019.0	5007.3	4964.8	4953.1	4877.4	4724.4	4513.1	4262.9
25°	4920.0	4943.4	4939.5	4850.3	4885.3	4883.2	4873.6	4836.7	4712.7	4513.1	4268.7
27.5°	4865.8	4873.6	4865.8	4784.5	4832.9	4871.7	4864.0	4858.0	4747.6	4569.1	4342.4
30°	5052.0	5040.3	4980.3	4815.5	4860.0	4914.3	4906.5	4910.4	4852.3	4716.6	4507.2
32.5°	5794.3	5742.1	5552.1	5088.8	4970.5	4999.5	5003.5	5067.5	5077.1	4943.4	4763.2
35°	6905.2	6847.2	6600.8	5821.6	5313.7	5212.9	5212.9	5309.8	5367.9	5269.1	5160.6
37.5°	8082.0	8017.9	7886.1	6837.4	6034.9	5583.1	5573.4	5641.3	5724.5	5747.9	5775.1
40°	9419.5	9351.7	9388.5	7977.3	7040.9	6224.7	6087.2	6038.6	6263.5	6412.8	6629.9
42.5°	10883.1	10852.2	10865.8	9247.1	8186.7	7184.4	6988.5	6738.5	7010.0	7275.6	7731.1
45°	12238.2	12265.4	12251.9	10606.0	9462.1	8355.2	8147.8	7663.3	7928.8	8384.4	9126.8
47.5°	13424.7	13312.3	13486.8	12090.9	10891.0	9665.8	9409.8	8760.5	9029.9	9592.1	10848.3
50°	14865.1	14849.5	14593.7	14072.2	12618.2	10982.0	10646.7	9894.6	10313.3	11094.4	13017.6
52.5°	16379.1	16097.9	15863.3	15613.4	14450.1	12331.4	11920.2	11024.7	11821.4	12804.4	15661.8
55°	16689.3	16563.2	16854.0	17274.6	16216.3	13732.8	13254.0	12441.9	13519.6	14758.4	18711.2
57.5°	17352.2	17350.3	17951.2	18701.5	18034.6	15219.9	14737.1	14153.5	15429.2	16997.5	21948.6
60°	17800.0	17926.0	19042.7	20498.6	19820.1	16937.4	16493.4	16129.0	17600.3	19500.1	24965.1
62.5°	18034.6	18205.2	19728.9	21227.5	22344.1	19796.8	19352.8	18827.4	20473.4	22245.2	26729.2
65°	17059.5	17394.9	19622.2	21857.5	24554.0	24431.9	24232.3	23309.5	24065.6	24414.5	26091.4
67.5°	14361.1	14704.1	17297.9	21270.1	26132.1	28902.2	28944.9	27368.9	26275.6	24600.5	21937.0
70°	10231.9	10501.2	12647.2	17833.1	24930.1	31823.7	31969.2	29239.7	25835.4	21816.7	15326.4
72.5°	4858.0	5022.9	7054.5	11606.3	19783.3	29158.2	29439.3	26851.2	21968.1	16152.2	8361.1
75°	1785.4	1835.9	2384.5	4937.5	11474.5	21502.6	21834.3	19248.2	14562.7	8041.2	3185.1
77.5°	1070.2	1103.1	1337.7	2084.0	4513.1	12290.6	12781.1	10468.3	6364.3	2993.2	1566.4
80°	748.3	771.6	959.6	1297.0	2132.4	4683.7	5119.8	4272.6	2535.6	1893.9	1139.9
82.5°	505.9	517.7	674.6	876.2	1417.0	1673.1	1804.9	1899.8	1709.8	1409.4	723.0
85°	331.6	343.2	457.4	577.7	901.4	864.6	884.0	1118.6	1248.5	957.7	401.4
87.5°	190.0	197.7	275.3	308.2	442.0	366.4	370.3	589.3	798.8	645.5	244.2
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°	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4	4623.4
2.5°	4606.1	4580.8	4524.7	4489.8	4456.9	4449.0	4435.6	4433.6	4431.6	4431.6	4425.8
5°	4503.4	4460.7	4373.5	4325.0	4284.2	4280.3	4278.4	4288.1	4292.0	4295.9	4290.0
7.5°	4437.4	4379.2	4270.7	4201.0	4152.4	4140.7	4160.2	4204.7	4233.8	4245.5	4239.7
10°	4396.8	4325.0	4198.9	4123.4	4082.6	4076.9	4102.0	4154.4	4214.5	4237.8	4235.8
12.5°	4350.2	4268.7	4135.0	4055.5	4032.2	4043.9	4076.9	4125.2	4187.3	4224.2	4226.0
15°	4303.6	4208.6	4070.9	4001.2	3991.4	4007.0	4038.2	4074.9	4123.4	4160.2	4164.1
17.5°	4247.5	4148.6	4010.9	3939.2	3931.4	3939.2	3941.1	3960.4	3991.4	4026.5	4036.2
20°	4187.3	4086.5	3943.1	3871.3	3836.4	3805.4	3770.5	3774.4	3784.1	3819.1	3826.8
22.5°	4144.7	4043.9	3890.6	3791.8	3698.9	3605.7	3536.0	3526.2	3530.2	3559.3	3569.0
25°	4148.6	4042.0	3877.2	3706.5	3503.0	3353.7	3260.7	3245.1	3243.2	3264.6	3278.2
27.5°	4224.2	4117.6	3927.6	3619.4	3289.8	3068.8	2969.8	2958.3	2942.8	2948.5	2964.0
30°	4392.8	4294.0	4049.6	3530.2	3059.1	2789.5	2686.9	2675.2	2654.0	2644.3	2655.8
32.5°	4668.1	4586.7	4228.1	3444.9	2828.5	2551.1	2446.4	2421.3	2407.6	2396.0	2405.8
35°	5125.5	5090.8	4466.6	3351.8	2624.8	2367.0	2272.1	2233.2	2213.9	2235.3	2250.8
37.5°	5842.8	5862.2	4778.7	3206.4	2467.9	2244.9	2165.4	2120.8	2091.8	2109.2	2126.6
40°	6858.6	6872.3	5123.7	3000.9	2332.1	2173.2	2087.8	2047.1	2006.5	1975.5	1973.4
42.5°	8192.5	8054.8	5463.0	2778.0	2175.1	2128.5	2033.6	1983.2	1921.1	1835.9	1818.3
45°	9774.3	9291.6	5720.8	2522.1	1998.6	2074.2	1973.4	1903.7	1806.8	1713.6	1704.1
47.5°	11596.6	10619.6	5846.8	2256.5	1833.9	1994.7	1899.8	1789.3	1667.2	1620.6	1614.9
50°	13822.1	12195.6	5906.9	1998.6	1690.4	1890.2	1793.1	1663.3	1560.5	1550.8	1545.1
52.5°	16355.8	14091.5	5926.3	1787.4	1572.3	1754.4	1705.9	1579.9	1498.6	1506.3	1506.3
55°	19007.7	16049.5	5662.6	1634.2	1463.6	1614.9	1647.9	1547.1	1479.1	1510.1	1521.8
57.5°	21442.6	17784.6	4832.9	1516.0	1360.9	1508.3	1626.6	1578.1	1531.5	1657.6	1665.3
60°	23311.5	18810.0	3609.6	1409.4	1285.3	1471.3	1682.6	1696.3	1707.9	2008.4	2049.0
62.5°	23702.9	18468.9	2481.4	1326.0	1250.4	1502.3	1785.4	1787.4	1773.9	1983.2	2008.4
65°	21906.0	16311.2	1804.9	1279.5	1221.2	1558.6	1872.6	1832.0	1742.8	1901.7	1855.2
67.5°	17396.8	12288.6	1502.3	1244.6	1178.7	1554.7	1965.8	1872.6	1725.4	1862.9	1787.4
70°	11292.2	7430.6	1337.7	1215.4	1128.2	1481.0	2020.0	1868.8	1674.9	1733.1	1643.9
72.5°	5509.5	3322.7	1227.2	1172.8	1075.9	1378.3	2018.0	1833.9	1622.6	1618.7	1570.2
75°	2155.8	1521.8	1126.4	1108.9	986.8	1261.9	1963.8	1783.5	1560.5	1498.6	1481.0
77.5°	1261.9	1085.6	998.3	1013.8	880.1	1145.7	1884.4	1696.3	1475.2	1401.5	1382.2
80°	918.8	812.2	851.1	876.2	752.2	1029.4	1777.7	1589.6	1380.2	1417.0	1389.9
82.5°	589.3	523.4	690.2	715.3	626.2	911.2	1661.3	1477.3	1246.5	1132.1	1104.9
85°	300.5	331.6	513.7	544.7	482.7	748.3	1519.8	1328.0	1095.4	942.1	957.7
87.5°	168.6	226.8	327.6	366.4	341.1	575.8	1233.0	1095.4	893.6	727.0	639.8
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)