

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: P319020

Luminaire Tested: **GAN-SA6D-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319020
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-SA6D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 41967 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

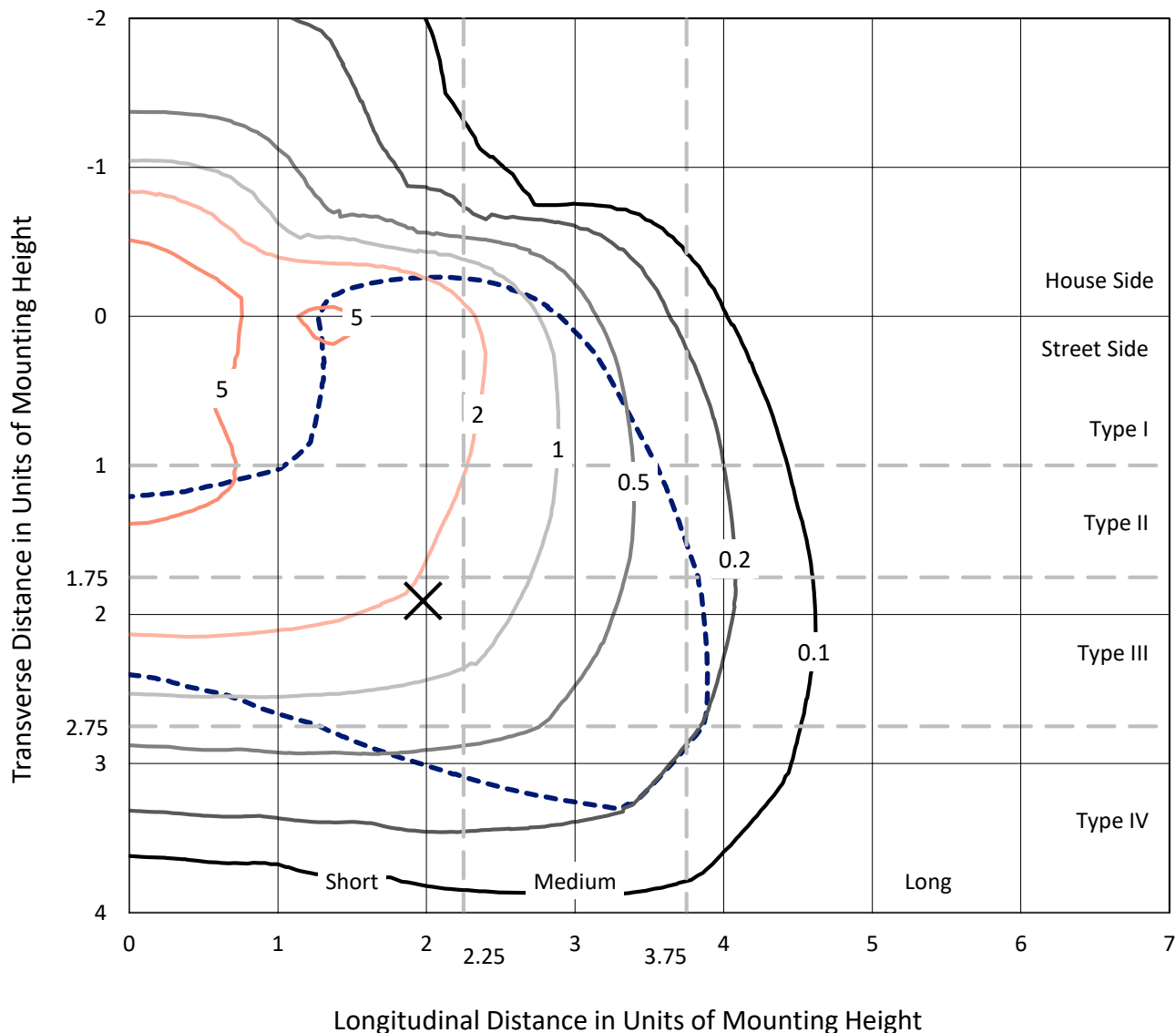
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

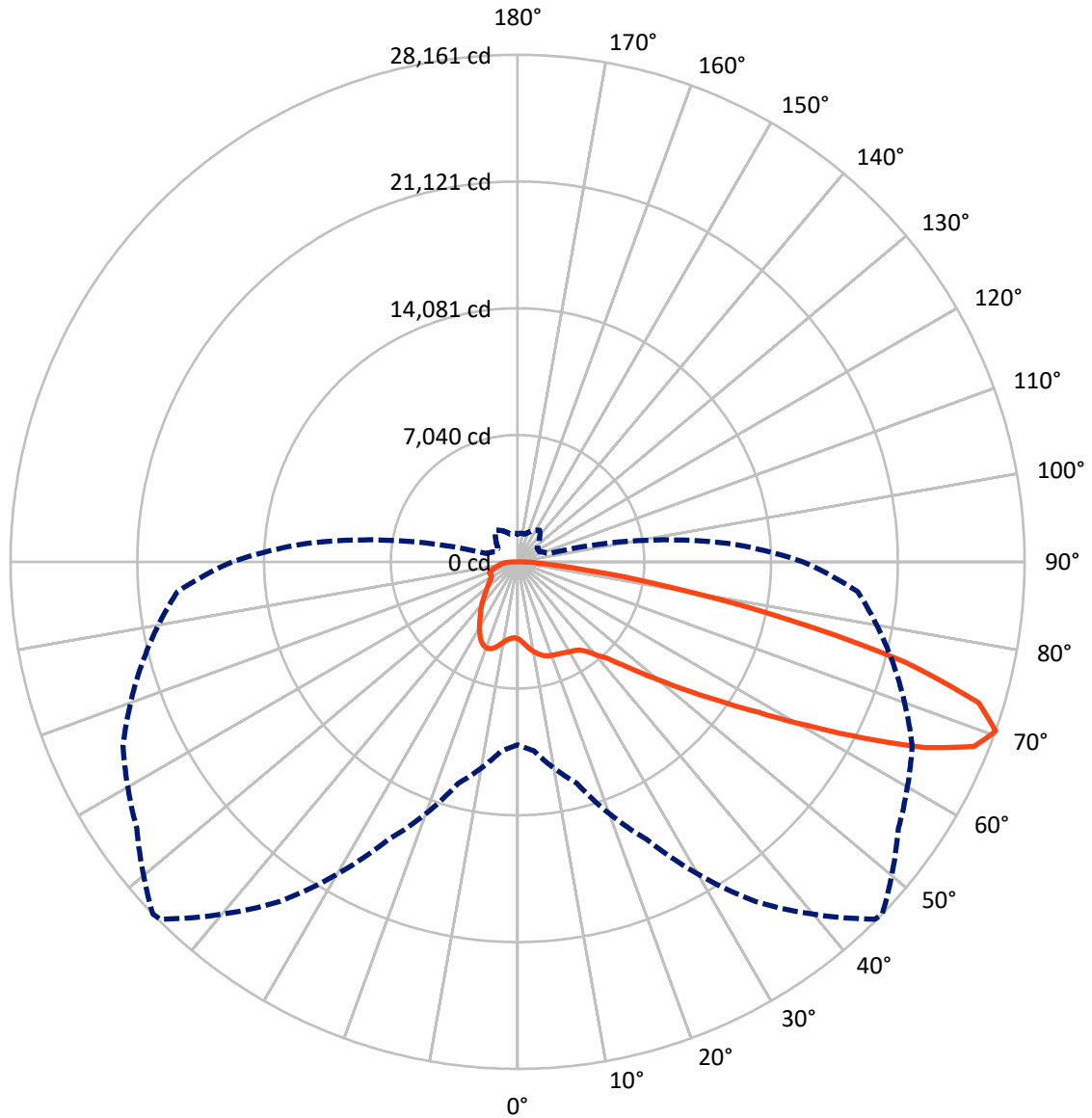
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	9618.7	0.0	9618.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32348.3	0.0	32348.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	41967.0	0.0	41967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	1.0
10°-20°	1452.2	3.5
20°-30°	2421.3	5.8
30°-40°	3436.0	8.2
40°-50°	5054.2	12.0
50°-60°	8559.3	20.4
60°-70°	12149.8	29.0
70°-80°	7381.1	17.6
80°-90°	1077.2	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°	41967.0	100.0
0°-180°	41967.0	100.0

Coefficient of Utilization

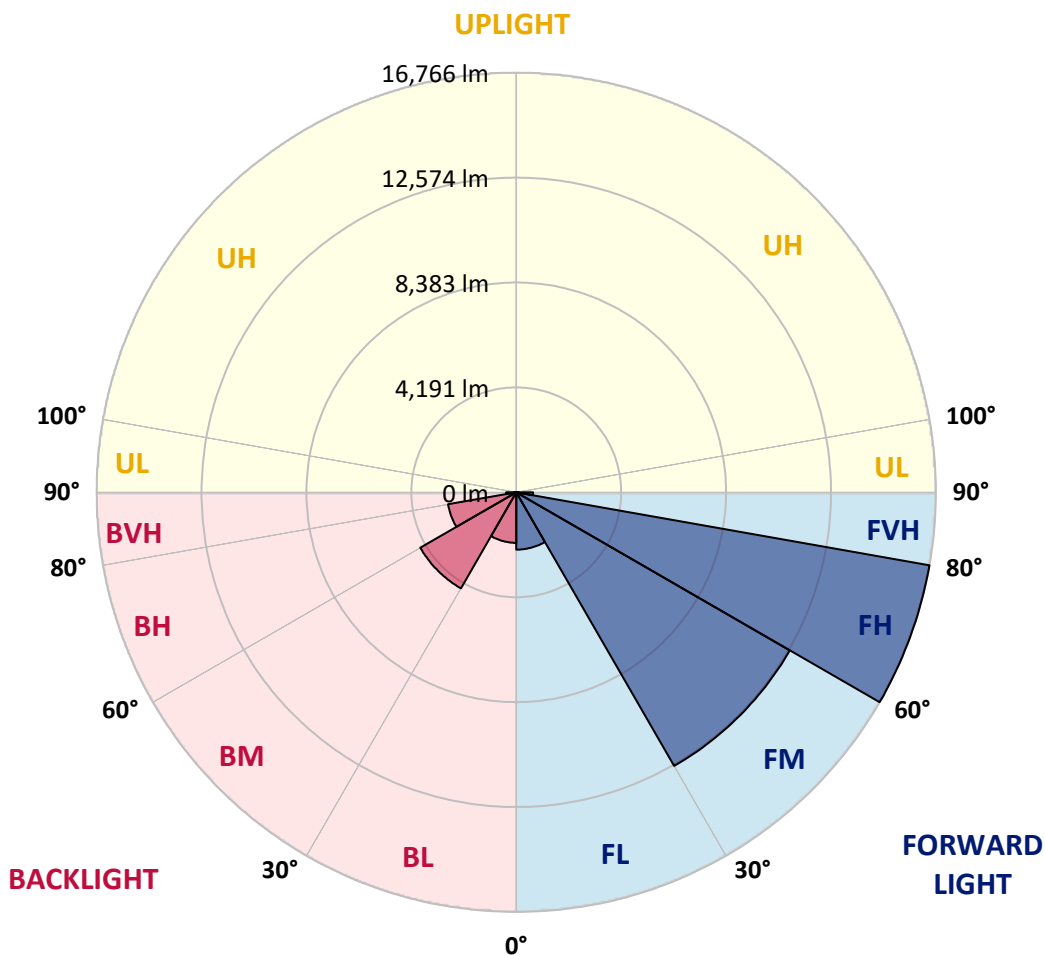


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2289.9	5.5			
FM (30°-60°)	12621.8	30.1			
FH (60°-80°)	16765.6	39.9			G5
FVH (80°-90°)	671.0	1.6			G4/750
BL (0°-30°)	2019.5	4.8	B3/2500		
BM (30°-60°)	4427.7	10.6	B3/5000		
BH (60°-80°)	2765.3	6.6	B4/5000		G4/5000
BVH (80°-90°)	406.2	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°	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6
2.5°	4489.6	4492.5	4498.2	4483.9	4443.7	4432.2	4427.9	4386.2	4358.9	4318.7	4284.2
5°	4848.7	4851.5	4842.9	4802.7	4713.7	4647.6	4641.9	4547.1	4460.9	4369.0	4300.0
7.5°	5223.5	5227.8	5200.5	5124.4	4999.5	4884.6	4877.4	4748.1	4617.4	4478.1	4374.7
10°	5555.3	5538.0	5493.5	5387.2	5239.3	5098.6	5092.8	4957.8	4807.0	4639.0	4501.1
12.5°	5776.5	5762.1	5704.7	5575.4	5413.1	5283.8	5272.3	5147.4	5000.9	4817.1	4651.9
15°	5898.5	5908.6	5831.0	5684.5	5526.6	5417.4	5407.4	5318.3	5187.6	5002.3	4812.8
17.5°	5914.3	5923.0	5848.3	5703.2	5574.0	5499.3	5495.0	5436.1	5341.3	5163.2	4965.0
20°	5822.4	5828.2	5766.4	5647.2	5562.5	5539.5	5538.0	5512.2	5441.8	5283.8	5091.4
22.5°	5688.9	5693.2	5648.6	5562.5	5533.7	5569.6	5579.7	5569.6	5519.4	5371.4	5190.5
25°	5655.8	5652.9	5607.0	5519.4	5543.8	5619.9	5632.8	5637.1	5602.7	5473.4	5316.9
27.5°	5815.2	5805.2	5717.6	5576.8	5592.6	5684.5	5701.8	5743.4	5721.9	5608.4	5460.5
30°	6276.3	6259.0	6079.5	5795.1	5717.6	5765.0	5786.5	5852.6	5856.9	5762.1	5651.5
32.5°	7054.7	7033.2	6711.4	6203.0	5928.7	5846.8	5866.9	5966.0	6019.2	5945.9	5826.7
35°	8038.5	8014.1	7591.8	6896.7	6282.0	6003.4	6017.7	6096.7	6203.0	6099.6	5941.6
37.5°	9064.0	9005.1	8598.6	7712.5	6843.6	6338.0	6338.0	6348.1	6398.3	6182.9	6076.6
40°	10083.7	10024.8	9657.1	8671.9	7570.3	6865.1	6832.1	6609.5	6569.3	6384.0	6348.1
42.5°	11031.6	11014.3	10797.5	9756.2	8423.4	7383.6	7337.6	6959.9	6968.5	6853.6	6855.1
45°	12039.8	12039.8	11863.1	10850.6	9417.3	8216.6	8170.6	7614.8	7701.0	7647.9	7775.7
47.5°	12862.8	12888.6	12864.2	11991.0	10573.4	9275.1	9191.8	8522.5	8763.8	8946.2	9318.2
50°	13702.9	13743.2	13747.5	13241.9	11970.9	10533.2	10438.4	9727.5	10266.1	10788.9	11519.9
52.5°	14922.3	15012.8	14652.3	14490.0	13682.8	12026.9	11933.5	11277.2	12176.2	12910.1	14169.7
55°	16052.6	15973.6	15716.5	15817.0	15515.4	13727.4	13657.0	13081.1	14304.7	15258.4	16894.2
57.5°	16664.4	16658.7	16917.2	17348.1	17491.7	15824.2	15765.3	15205.2	16704.6	17421.3	19452.1
60°	17382.5	17392.6	18033.1	19011.2	19602.9	18435.3	18409.4	17984.3	19035.6	19440.6	21458.5
62.5°	17483.1	17664.0	18767.0	20450.3	21579.1	21485.8	21543.2	20487.6	21121.0	21052.1	22956.5
65°	16326.9	16565.3	18561.7	20885.5	23543.9	24822.1	24875.3	23005.3	22765.5	22429.4	23492.2
67.5°	13957.1	14310.5	16479.1	19939.0	24191.6	27288.1	27362.8	24957.1	24129.9	22896.2	22202.5
70°	10156.9	10549.0	12732.1	17029.2	23036.9	28076.6	28161.3	25820.3	24181.6	21567.7	18953.7
72.5°	6135.5	6442.9	8242.4	12536.7	19443.5	26640.4	26791.2	24725.9	22077.5	18268.7	13995.9
75°	2694.3	2895.4	3985.5	7224.2	13919.8	22041.6	22229.8	21164.1	17938.3	13276.4	8272.6
77.5°	1147.5	1205.0	1634.4	3138.1	7869.0	15061.6	15320.1	15463.7	12170.5	7224.2	3495.8
80°	715.2	738.2	924.9	1420.4	3682.5	8459.3	8737.9	9098.4	6043.6	2655.6	1220.8
82.5°	435.2	461.0	614.7	858.9	1917.3	3834.7	3968.3	4222.5	2345.3	1147.5	631.9
85°	261.4	280.1	376.3	542.9	1091.5	1508.0	1506.6	1666.0	1104.5	738.2	333.2
87.5°	125.0	139.3	201.1	281.5	550.1	565.9	530.0	600.3	670.7	484.0	168.0
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°	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6	4275.6
2.5°	4272.7	4267.0	4248.3	4234.0	4231.1	4222.5	4215.3	4219.6	4225.3	4226.8	4226.8
5°	4271.3	4255.5	4231.1	4221.0	4234.0	4251.2	4272.7	4301.5	4318.7	4331.6	4340.2
7.5°	4340.2	4310.1	4282.8	4277.1	4302.9	4348.9	4397.7	4458.0	4499.7	4528.4	4534.1
10°	4455.1	4417.8	4390.5	4396.3	4442.2	4508.3	4577.2	4654.8	4718.0	4756.7	4759.6
12.5°	4587.3	4551.4	4525.5	4549.9	4626.1	4706.5	4778.3	4845.8	4903.2	4942.0	4942.0
15°	4739.5	4713.7	4683.5	4739.5	4842.9	4914.7	4944.9	4977.9	5009.5	5038.2	5032.5
17.5°	4886.0	4861.6	4845.8	4911.9	5019.6	5052.6	5032.5	5008.1	5008.1	5023.9	5026.8
20°	5012.4	4990.9	5000.9	5065.5	5121.5	5087.1	5012.4	4934.8	4903.2	4911.9	4920.5
22.5°	5123.0	5112.9	5143.1	5173.3	5133.0	5012.4	4874.5	4769.7	4730.9	4728.0	4730.9
25°	5252.2	5250.8	5288.1	5233.6	5055.5	4832.9	4647.6	4545.6	4524.1	4541.3	4570.0
27.5°	5413.1	5428.9	5447.6	5247.9	4897.5	4561.4	4373.3	4302.9	4324.4	4366.1	4393.4
30°	5618.5	5661.6	5621.4	5212.0	4670.6	4251.2	4071.7	4051.6	4110.5	4169.3	4198.1
32.5°	5818.1	5885.6	5788.0	5118.7	4377.6	3922.3	3783.0	3777.2	3849.1	3906.5	3946.7
35°	5979.0	6112.5	5912.9	4933.4	4038.6	3619.3	3517.3	3478.5	3504.4	3571.9	3617.8
37.5°	6188.7	6411.3	5999.1	4650.5	3671.0	3369.4	3250.2	3161.1	3138.1	3165.4	3188.4
40°	6572.1	6866.6	6039.3	4255.5	3311.9	3119.5	2998.8	2868.1	2777.6	2711.6	2713.0
42.5°	7198.3	7459.7	6013.4	3775.8	2980.1	2875.3	2738.9	2588.1	2441.6	2292.2	2280.7
45°	8215.2	8341.5	5935.9	3267.4	2688.6	2619.7	2491.8	2341.0	2145.7	1976.2	1960.4
47.5°	9842.4	9562.3	5815.2	2823.6	2431.5	2402.8	2285.0	2111.2	1904.4	1768.0	1756.5
50°	12061.3	11324.6	5756.4	2470.3	2204.6	2213.2	2117.0	1933.1	1737.8	1637.3	1625.8
52.5°	14715.5	13376.9	5869.8	2197.4	2022.2	2052.4	1980.5	1808.2	1644.5	1565.5	1554.0
55°	17468.7	15502.5	5991.9	1999.2	1849.8	1908.7	1884.3	1742.1	1594.2	1521.0	1510.9
57.5°	19825.5	17089.5	5747.7	1838.4	1696.2	1788.1	1809.6	1700.5	1568.3	1502.3	1490.8
60°	21309.1	17728.7	5107.2	1687.6	1574.1	1691.9	1766.5	1689.0	1578.4	1572.7	1564.0
62.5°	22012.9	17672.6	4146.4	1568.3	1498.0	1650.2	1798.1	1753.6	1693.3	1745.0	1749.3
65°	21696.9	16828.1	3087.9	1489.4	1443.4	1666.0	1892.9	1875.7	1726.3	1778.0	1785.2
67.5°	19617.3	14813.1	2286.5	1420.4	1383.1	1710.5	2065.3	1915.9	1661.7	1699.0	1676.1
70°	15855.8	11743.9	1763.7	1342.9	1321.3	1704.8	2142.8	1891.5	1591.3	1599.9	1538.2
72.5°	10933.9	8008.3	1434.8	1271.1	1232.3	1554.0	2088.3	1831.2	1532.4	1466.4	1384.5
75°	5945.9	4298.6	1219.3	1196.4	1075.7	1364.4	1987.7	1788.1	1479.3	1391.7	1345.7
77.5°	2339.6	1783.8	1058.5	1094.4	940.7	1205.0	1875.7	1706.2	1406.1	1291.2	1268.2
80°	955.1	910.6	877.5	946.5	808.6	1054.2	1740.7	1610.0	1318.4	1197.8	1151.8
82.5°	541.5	565.9	682.2	746.8	656.4	970.9	1676.1	1532.4	1213.6	1072.9	1018.3
85°	277.2	331.8	475.4	535.7	482.6	825.8	1543.9	1341.4	973.8	821.5	825.8
87.5°	133.6	185.3	300.2	336.1	313.1	597.5	1153.3	972.3	758.3	600.3	581.7
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)