

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: P301188

Luminaire Tested: **GAA-AF-09-LED-U-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-09-LED-U-T3R-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38056.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

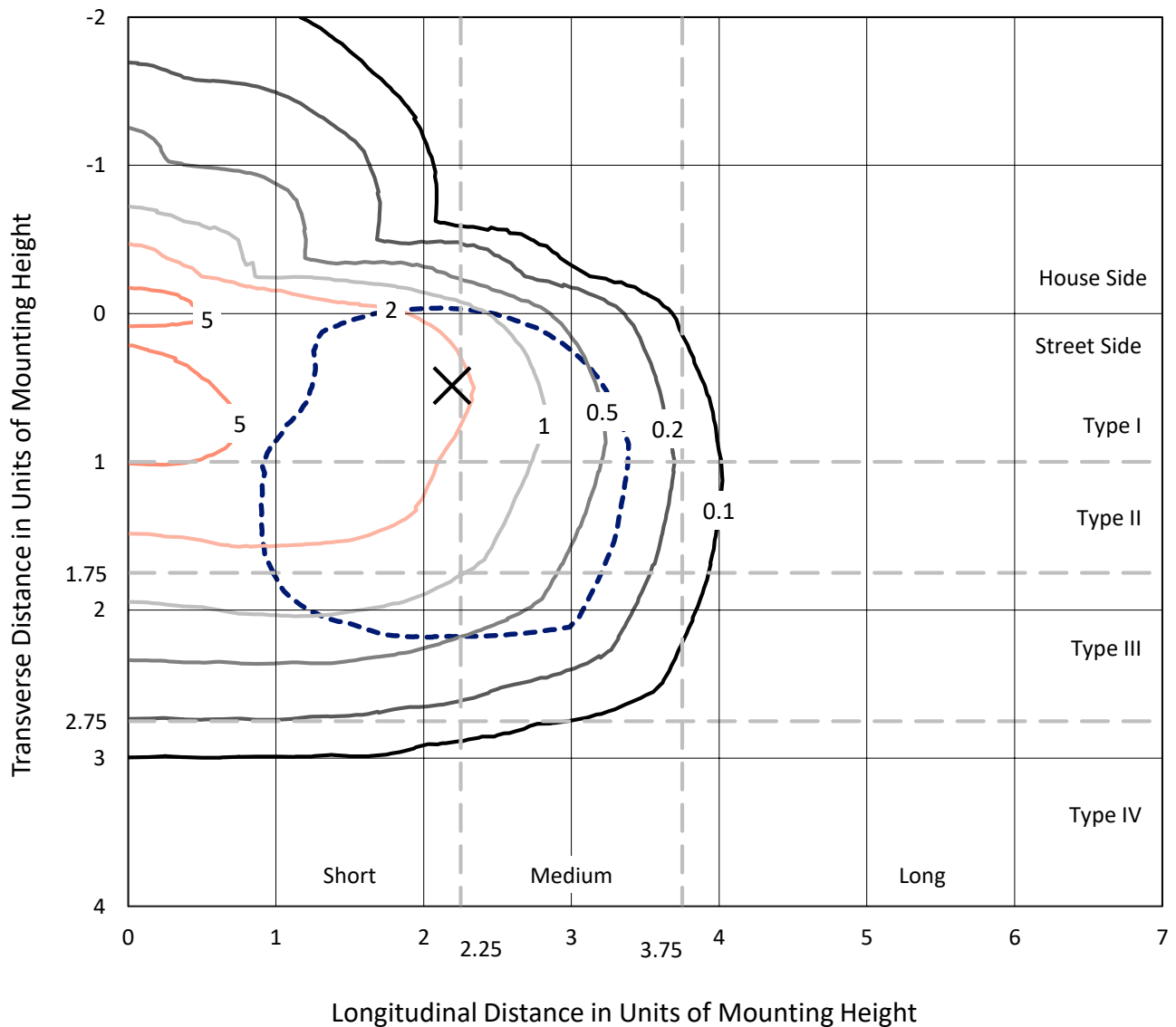
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

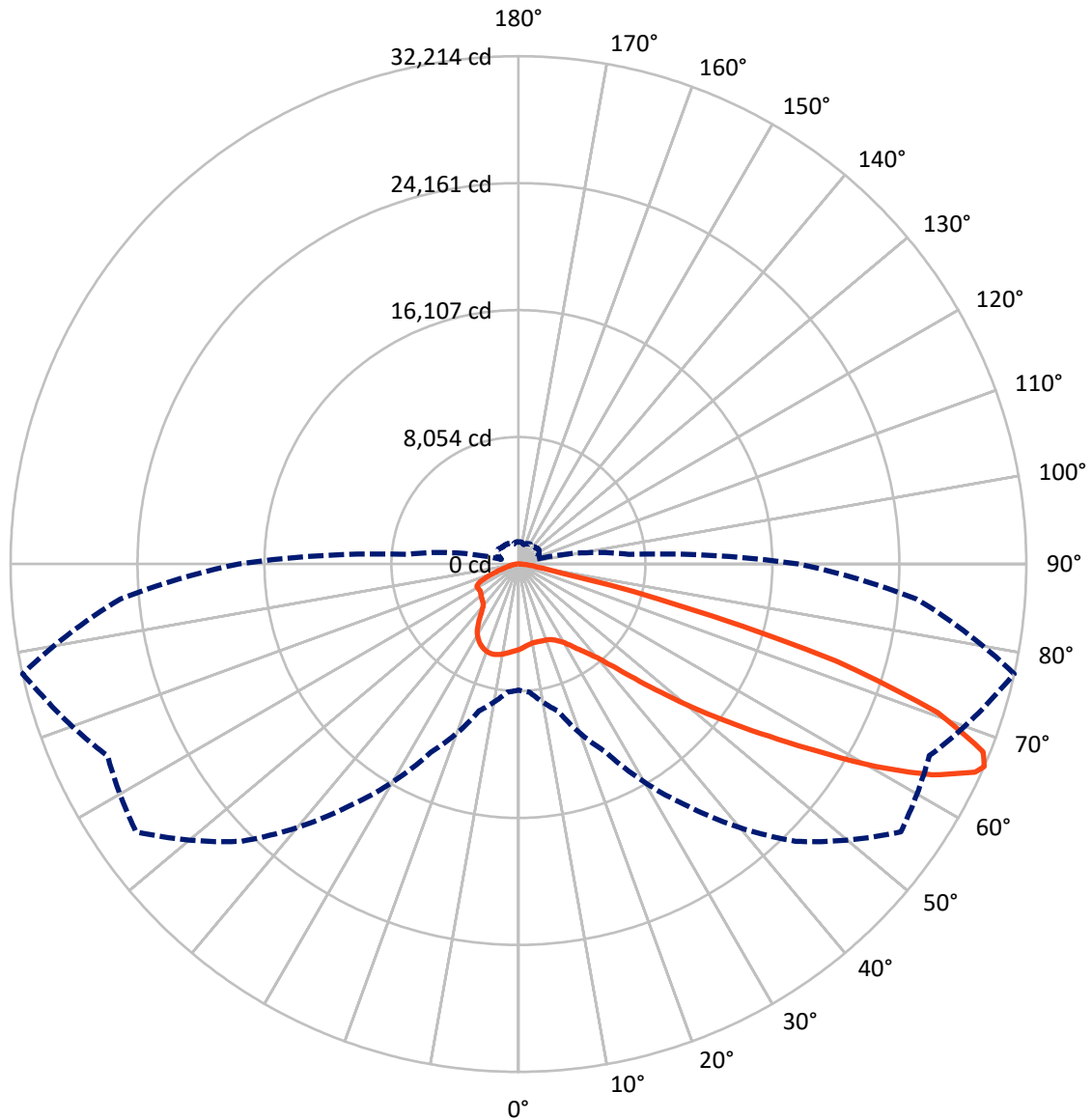
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6501.7	0.0	6501.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	31554.7	0.0	31554.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	38056.4	0.0	38056.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.5	1.3
10°-20°	1366.9	3.6
20°-30°	2332.8	6.1
30°-40°	3734.5	9.8
40°-50°	5769.4	15.2
50°-60°	8183.0	21.5
60°-70°	10946.6	28.8
70°-80°	4753.9	12.5
80°-90°	484.7	1.3
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°	38056.4	100.0
0°-180°	38056.4	100.0

Coefficient of Utilization



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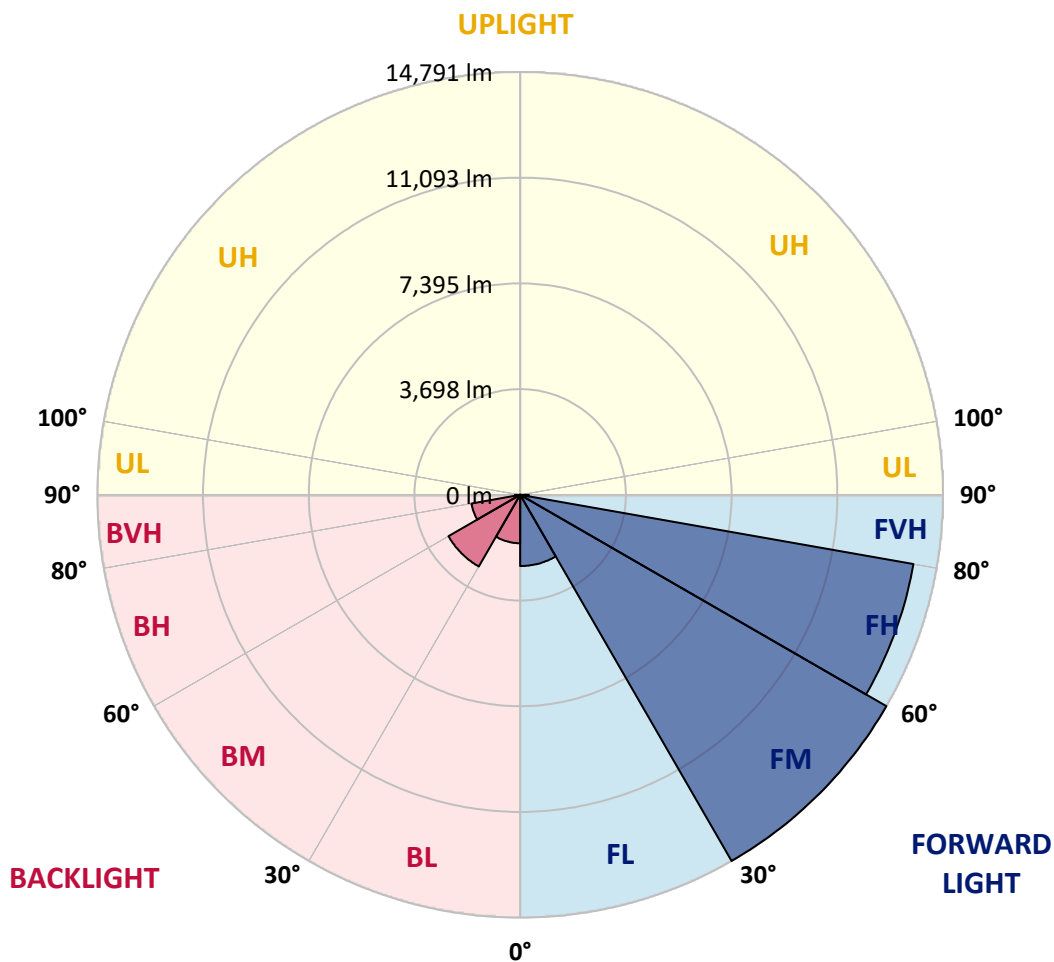
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.0	6.5			
FM (30°-60°)	14790.7	38.9			
FH (60°-80°)	13969.0	36.7			G5
FVH (80°-90°)	304.0	0.8			G3/500
BL (0°-30°)	1693.3	4.4	B3/2500		
BM (30°-60°)	2896.1	7.6	B3/5000		
BH (60°-80°)	1731.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	180.7	0.5			G2/225
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°	65°	75°	77.5°	85°
0°	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2
2.5°	4797.6	4829.7	4857.0	4882.0	4932.1	5014.8	5110.1	5187.4	5299.0	5320.8	5380.2
5°	4357.2	4357.2	4378.4	4416.5	4484.6	4608.7	4738.3	4910.8	5153.7	5210.8	5369.3
7.5°	4143.2	4144.8	4157.3	4189.5	4248.8	4362.1	4504.2	4707.8	5036.6	5131.9	5401.4
10°	4222.1	4204.2	4176.9	4161.2	4169.9	4236.3	4371.3	4597.8	4964.7	5086.7	5473.8
12.5°	4664.2	4630.5	4536.8	4412.7	4294.0	4245.5	4324.5	4545.5	4934.3	5076.4	5569.1
15°	5387.2	5373.1	5198.3	4941.3	4653.9	4412.7	4358.8	4525.9	4937.5	5088.9	5682.3
17.5°	6293.7	6273.6	6043.8	5669.8	5200.5	4731.2	4479.1	4542.3	4950.0	5110.1	5791.8
20°	7208.9	7147.4	6899.7	6453.8	5851.1	5164.0	4678.9	4583.6	4966.4	5133.5	5907.2
22.5°	7892.2	7841.6	7618.9	7185.5	6491.4	5666.0	4946.8	4655.5	5018.6	5202.1	6048.7
25°	8492.7	8496.0	8274.9	7856.3	7138.7	6198.5	5292.0	4847.7	5151.5	5342.0	6243.1
27.5°	9235.3	9192.3	8985.4	8570.0	7779.0	6735.8	5709.0	5112.3	5349.7	5541.9	6498.4
30°	10123.3	10092.8	9853.8	9382.9	8488.9	7312.9	6185.4	5419.4	5605.0	5804.3	6832.7
32.5°	11168.1	11153.9	10905.7	10299.7	9308.8	7992.9	6745.1	5826.1	5986.1	6193.0	7312.9
35°	12394.7	12396.4	12103.4	11375.0	10206.1	8784.0	7379.3	6349.3	6450.0	6665.6	7885.1
37.5°	13149.9	13241.3	13131.9	12389.3	11222.0	9668.7	8203.1	7043.4	6978.6	7196.4	8498.2
40°	13311.6	13423.2	13770.0	13392.7	12358.8	10643.3	8933.2	7710.4	7629.8	7895.5	9287.6
42.5°	13085.1	13239.7	13973.6	14239.3	13565.3	11844.3	9914.8	8701.2	8598.9	8956.6	10269.2
45°	12950.1	13065.5	13914.3	14680.3	14611.7	13202.1	11164.8	9945.3	9907.7	10377.0	11402.2
47.5°	12716.5	12821.0	13637.1	14782.6	15226.9	14446.2	12666.4	11467.0	11540.5	12155.7	12680.6
50°	12842.3	12885.3	13327.9	14521.9	15404.9	15358.1	14343.8	13228.8	13480.9	14248.5	14128.2
52.5°	12824.3	12935.9	13292.0	14093.9	15428.3	15921.1	15996.2	15194.2	15725.1	16606.0	15733.8
55°	10368.3	10573.0	12869.5	13986.1	15510.6	16472.6	17467.3	17265.8	18254.5	19281.3	17546.2
57.5°	9900.6	10030.2	11303.1	14212.6	15949.4	17526.6	19103.3	19545.9	21200.0	22392.3	19754.5
60°	9808.6	9968.7	11286.8	14489.7	16839.5	19243.8	21529.3	22306.3	24784.0	26089.6	22315.0
62.5°	9522.8	9695.4	11180.6	14453.3	18103.7	21619.2	24634.8	25240.8	28182.4	29452.0	24456.8
65°	8616.9	8778.6	10316.1	13872.9	18956.3	24154.6	28309.8	27930.9	30865.4	31819.8	25524.4
66°	7996.2	8154.6	9634.4	13189.6	18758.1	24873.8	29612.1	28763.3	31465.9	32214.0	25315.9
67.5°	6861.6	6985.7	8310.9	11659.2	17706.3	25075.3	30707.0	29388.9	31528.5	31793.1	24124.1
70°	4335.4	4371.3	5401.4	8048.5	13403.6	21746.6	29039.9	27835.6	28928.8	28212.9	20223.8
72.5°	1881.0	1868.5	2593.2	4094.2	7588.4	14592.1	23491.0	22967.8	22692.8	21060.0	14157.1
75°	1046.4	1061.1	1346.9	1900.6	3083.7	7167.6	15366.8	14705.3	12416.0	10594.8	6419.5
77.5°	839.5	859.7	1116.6	1348.6	1384.5	2499.5	7191.0	5851.1	3522.5	2826.7	1783.6
80°	663.7	699.6	974.5	1050.2	933.2	1030.1	2323.1	1857.6	1393.8	1278.3	924.5
82.5°	524.8	550.4	836.3	794.9	652.8	694.2	1112.8	1084.5	906.5	825.4	534.1
85°	377.8	424.1	687.1	598.9	427.9	467.7	738.8	708.3	519.4	424.1	235.7
87.5°	154.6	201.4	485.6	397.4	239.0	217.8	368.6	346.8	246.1	179.7	117.1
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°	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2	5423.2
2.5°	5417.7	5460.7	5516.8	5551.1	5569.1	5581.6	5601.2	5599.6	5605.0	5606.6	5613.7
5°	5453.7	5525.5	5606.6	5628.4	5628.4	5608.3	5588.7	5556.0	5543.5	5540.2	5543.5
7.5°	5547.3	5626.2	5696.5	5671.4	5617.5	5538.0	5435.7	5345.9	5297.4	5281.1	5277.8
10°	5666.0	5761.3	5790.1	5694.8	5536.4	5345.9	5142.8	4995.2	4910.8	4887.4	4880.4
12.5°	5809.7	5899.6	5860.4	5658.9	5365.5	5058.4	4777.5	4542.3	4365.9	4310.3	4306.5
15°	5968.2	6038.4	5899.6	5547.3	5110.1	4657.1	4157.3	3751.2	3531.8	3461.6	3456.1
17.5°	6115.7	6151.6	5876.1	5352.9	4734.5	4001.1	3337.4	3024.4	2949.2	2967.2	2970.5
20°	6241.5	6241.5	5797.2	5074.2	4143.2	3136.0	2716.8	2711.9	2765.8	2819.7	2830.5
22.5°	6379.7	6297.0	5658.9	4680.6	3304.8	2565.9	2505.0	2555.1	2616.0	2675.4	2684.6
25°	6550.7	6342.2	5466.2	4083.8	2598.1	2330.2	2353.6	2395.0	2425.5	2463.6	2469.0
27.5°	6741.3	6399.3	5213.0	3261.7	2255.1	2183.2	2201.2	2215.3	2211.5	2226.2	2229.5
30°	6969.4	6466.3	4865.7	2549.6	2113.0	2056.9	2024.8	2012.3	2012.3	2035.7	2044.4
32.5°	7275.4	6564.9	4367.5	2184.8	2044.4	1967.1	1863.1	1816.3	1834.2	1913.2	1931.1
35°	7611.8	6671.0	3693.5	2060.7	2030.2	1925.7	1764.0	1677.4	1679.6	1753.1	1776.5
37.5°	7978.2	6806.0	2954.1	2037.3	2062.3	1927.9	1711.7	1593.0	1544.6	1544.6	1553.8
40°	8447.5	6944.3	2391.7	2053.6	2130.9	1949.1	1685.0	1526.6	1390.0	1393.8	1400.8
42.5°	9058.9	7063.0	2089.6	2087.4	2213.7	1978.0	1682.9	1438.4	1319.7	1400.8	1474.3
45°	9738.9	7122.4	1956.2	2118.4	2280.1	1995.9	1654.6	1424.3	1329.0	1569.6	1710.1
47.5°	10520.8	7088.1	1882.7	2128.8	2296.4	1995.9	1621.9	1458.6	1391.6	1817.9	1981.8
50°	11378.8	6989.5	1810.8	2107.5	2291.0	1992.1	1652.4	1492.3	1415.0	1860.9	1974.1
52.5°	12387.6	6906.8	1735.1	2060.7	2252.9	1972.5	1688.3	1478.2	1341.5	1692.1	1771.1
55°	13538.0	6930.2	1650.7	1994.3	2193.5	1934.9	1675.8	1420.4	1264.2	1490.7	1539.1
57.5°	15009.1	7208.9	1550.0	1909.9	2113.0	1871.8	1631.1	1393.8	1240.8	1352.4	1381.2
60°	16650.6	7694.0	1424.3	1825.0	2012.3	1771.1	1596.8	1406.3	1251.7	1341.5	1355.7
62.5°	17855.5	7976.6	1316.5	1700.8	1875.6	1659.5	1553.8	1422.1	1280.5	1379.1	1375.8
65°	18182.7	7512.7	1181.4	1519.5	1690.5	1542.9	1499.4	1440.0	1293.0	1409.6	1393.8
66°	17724.2	7012.9	1122.1	1435.1	1596.8	1485.2	1472.7	1438.4	1287.6	1413.4	1386.1
67.5°	16611.4	5987.8	1019.7	1311.0	1447.7	1399.2	1429.7	1422.1	1272.9	1409.6	1372.0
70°	13547.3	4085.5	872.2	1091.6	1204.8	1231.5	1346.9	1364.9	1226.1	1346.9	1264.2
72.5°	9465.6	2488.6	771.5	847.1	974.5	1050.2	1233.7	1285.4	1163.5	1176.0	1097.0
75°	4574.4	1321.9	699.6	656.6	756.8	877.6	1097.0	1177.6	1064.4	983.8	954.9
77.5°	1425.9	807.4	593.4	528.7	593.4	708.3	916.8	1032.3	947.9	823.7	812.8
80°	766.0	593.4	456.8	424.1	469.3	555.9	720.8	861.3	814.5	738.8	659.9
82.5°	505.2	384.9	338.1	328.8	357.7	424.1	535.7	713.8	713.8	633.2	460.6
85°	260.8	235.7	231.9	231.9	249.9	282.6	364.8	550.4	586.4	334.3	277.1
87.5°	129.6	135.0	125.8	131.2	140.5	138.3	174.2	277.1	331.0	203.1	168.8
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)