

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: P191565

Luminaire Tested: **GAN-AF-07-LED-U-T4W-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191565
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-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34554.3 lumens
Efficiency: N/A
Efficacy: 117.1 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

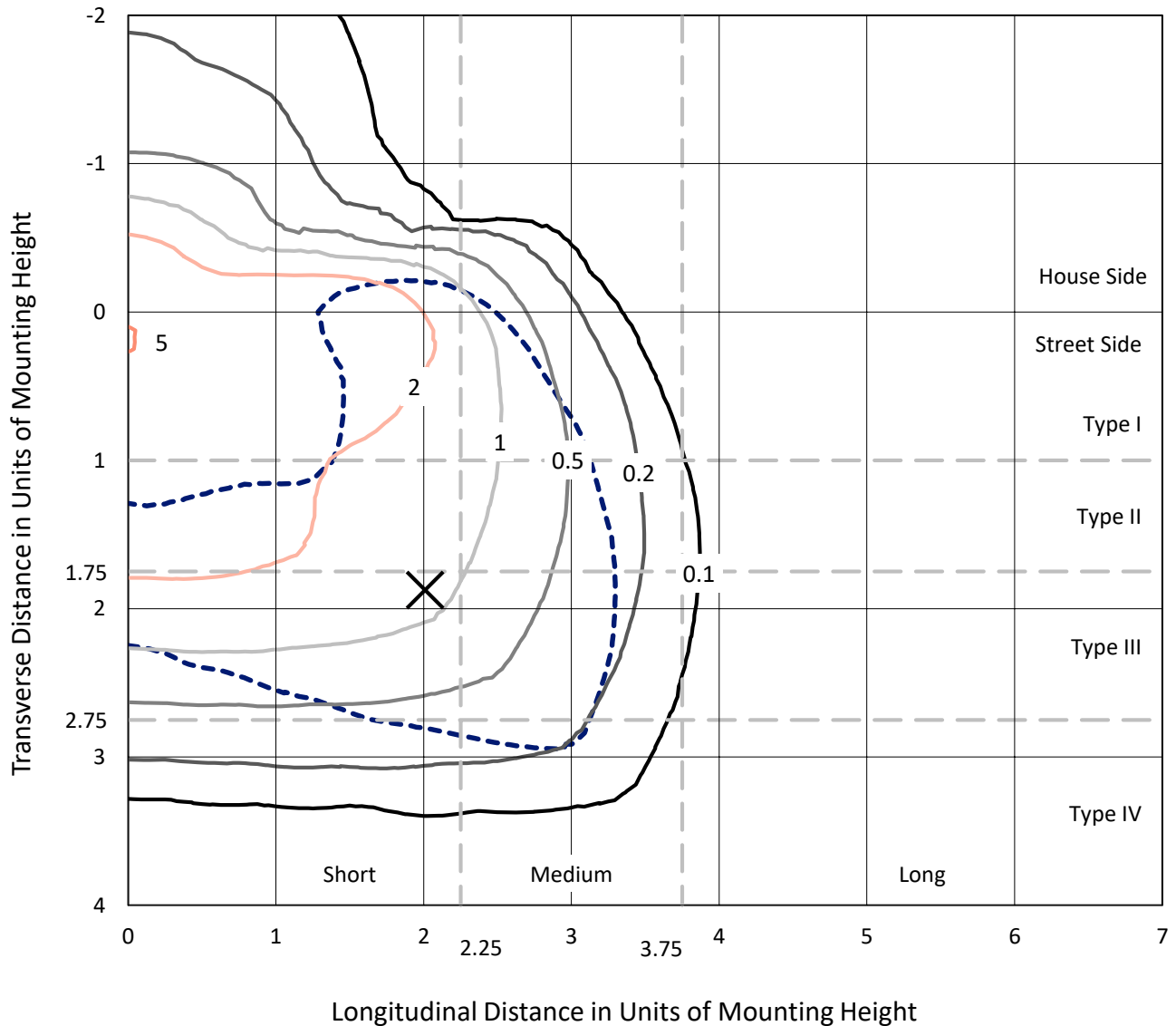
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

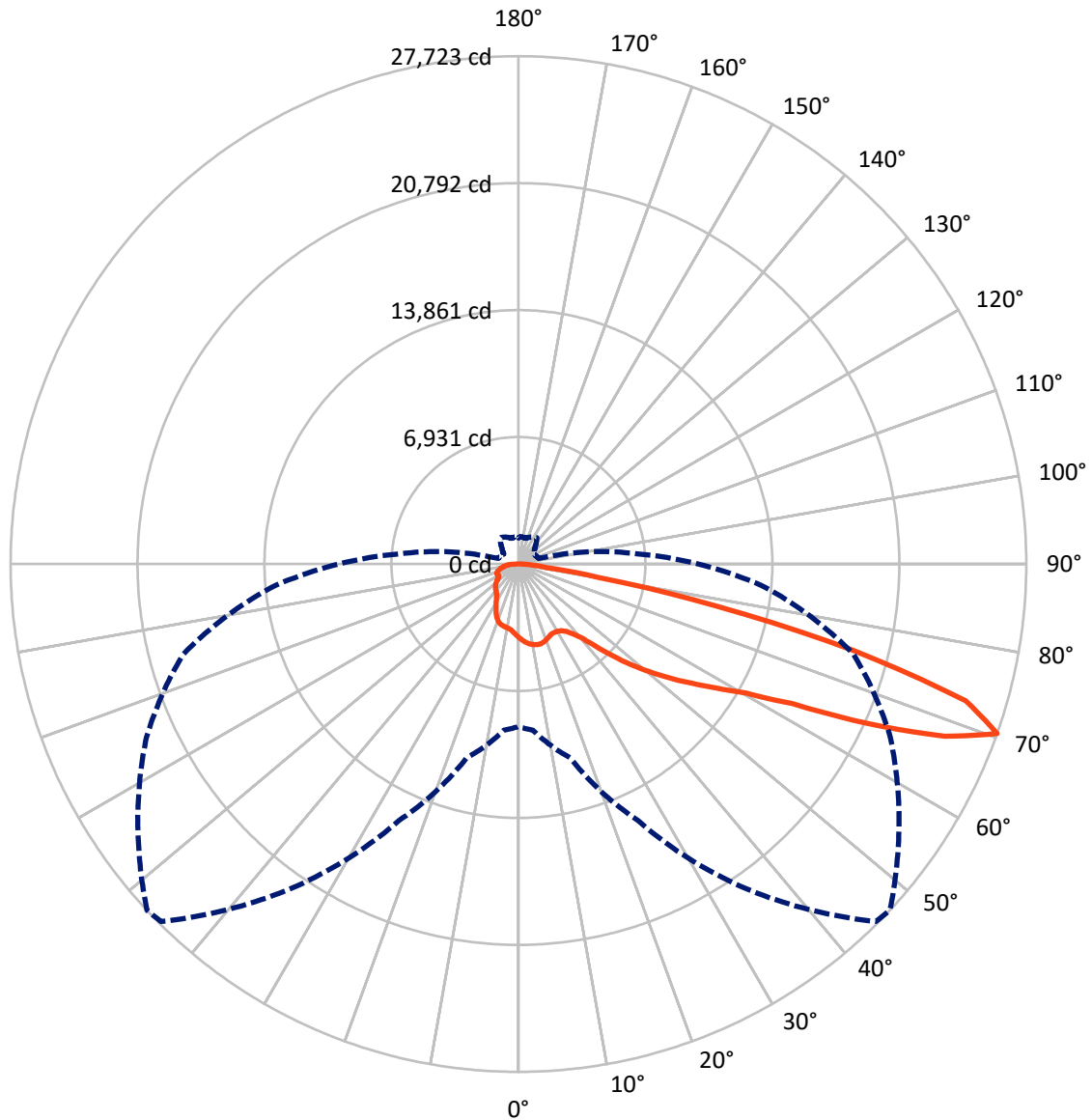
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	7208.7	0.0	7208.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	27345.6	0.0	27345.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	34554.3	0.0	34554.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.2	1.1
10°-20°	1127.0	3.3
20°-30°	1664.3	4.8
30°-40°	2419.1	7.0
40°-50°	4353.5	12.6
50°-60°	7542.0	21.8
60°-70°	10764.6	31.2
70°-80°	5525.9	16.0
80°-90°	773.6	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°	34554.3	100.0
0°-180°	34554.3	100.0

Coefficient of Utilization



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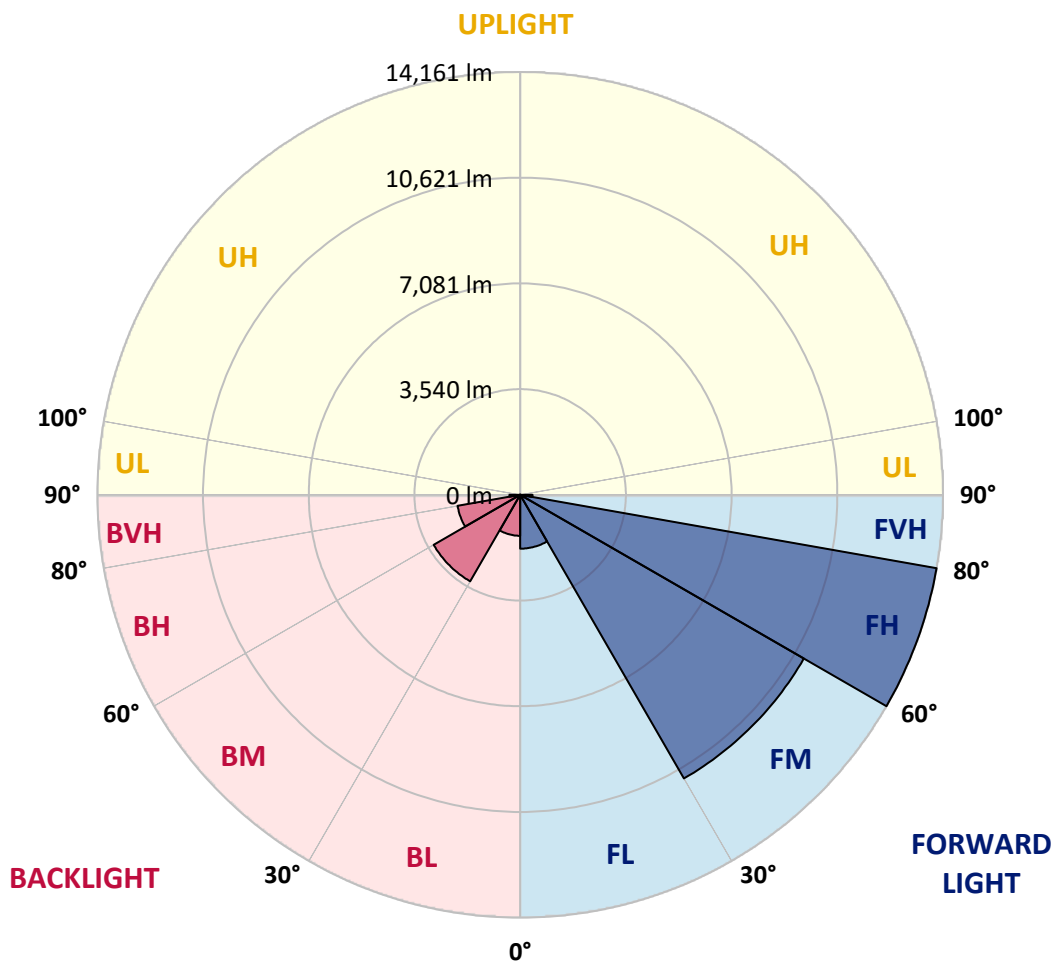
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1803.0	5.2			
FM	(30°-60°)	10968.5	31.7			
FH	(60°-80°)	14161.3	41.0			G5
FVH	(80°-90°)	412.8	1.2			G3/500
BL	(0°-30°)	1372.6	4.0	B3/2500		
BM	(30°-60°)	3346.1	9.7	B3/5000		
BH	(60°-80°)	2129.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	360.8	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°	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4
2.5°	4244.7	4236.3	4233.0	4226.2	4217.8	4175.8	4167.4	4137.1	4095.1	4051.4	4006.0
5°	4523.8	4522.1	4503.6	4470.0	4416.2	4323.7	4301.9	4228.0	4128.7	4032.9	3937.1
7.5°	4769.2	4754.1	4718.8	4651.6	4557.5	4431.3	4401.0	4298.5	4162.4	4031.2	3901.7
10°	4949.1	4940.6	4863.3	4770.9	4648.2	4508.7	4473.4	4359.0	4209.4	4043.0	3881.6
12.5°	5051.6	5034.9	4945.8	4834.8	4688.5	4552.3	4517.0	4401.0	4233.0	4043.0	3853.0
15°	5044.9	5033.1	4944.0	4823.0	4675.1	4555.7	4523.8	4407.8	4228.0	4026.1	3816.0
17.5°	4910.5	4915.5	4839.8	4720.5	4599.4	4508.7	4480.1	4372.5	4194.3	3992.6	3772.3
20°	4675.1	4698.6	4648.2	4542.3	4475.0	4412.8	4394.3	4303.6	4142.1	3943.8	3725.3
22.5°	4439.7	4461.6	4441.4	4352.3	4342.2	4305.2	4295.2	4229.6	4096.8	3913.5	3696.7
25°	4266.5	4286.8	4283.4	4206.1	4236.3	4234.6	4226.2	4194.3	4086.7	3913.5	3701.8
27.5°	4219.5	4226.2	4219.5	4148.9	4190.9	4224.6	4217.8	4212.8	4117.0	3962.3	3765.6
30°	4380.9	4370.8	4318.7	4175.8	4214.5	4261.5	4254.8	4258.1	4207.7	4090.1	3908.5
32.5°	5024.7	4979.3	4814.6	4412.8	4310.3	4335.5	4338.8	4394.3	4402.8	4286.8	4130.4
35°	5988.0	5937.6	5724.0	5048.3	4607.9	4520.4	4520.4	4604.5	4654.9	4569.2	4475.0
37.5°	7008.4	6952.9	6838.6	5929.1	5233.2	4841.5	4833.1	4892.0	4964.2	4984.4	5008.0
40°	8168.4	8109.5	8141.5	6917.6	6105.7	5397.9	5278.6	5236.6	5431.6	5561.0	5749.3
42.5°	9437.5	9410.6	9422.4	8018.7	7099.2	6230.1	6060.3	5843.4	6078.8	6309.0	6704.1
45°	10612.6	10636.1	10624.4	9197.1	8205.3	7245.5	7065.5	6645.3	6875.6	7270.6	7914.5
47.5°	11641.5	11544.0	11695.3	10484.8	9444.3	8381.9	8160.0	7596.7	7830.5	8317.9	9407.3
50°	12890.5	12877.0	12655.1	12203.0	10942.1	9523.3	9232.4	8580.2	8943.4	9620.9	11288.5
52.5°	14203.5	13959.7	13756.2	13539.4	12530.7	10693.3	10336.9	9560.3	10251.2	11103.5	13581.4
55°	14472.4	14363.2	14615.3	14980.1	14062.2	11908.8	11493.6	10789.2	11723.8	12798.0	16225.7
57.5°	15047.3	15045.7	15566.8	16217.4	15639.1	13198.1	12779.5	12273.6	13379.7	14739.7	19033.1
60°	15435.6	15545.0	16513.2	17775.7	17187.3	14687.5	14302.6	13986.6	15262.5	16910.0	21648.9
62.5°	15639.1	15787.0	17108.3	18407.8	19376.1	17167.2	16782.2	16326.6	17753.8	19290.4	23178.7
65°	14793.5	15084.3	17015.9	18954.2	21292.5	21186.6	21013.5	20213.3	20868.9	21171.5	22625.6
67.5°	12453.4	12751.0	15000.2	18444.8	22660.9	25063.2	25100.1	23733.5	22785.3	21332.8	19023.1
70°	8872.8	9106.4	10967.4	15464.3	21618.6	27596.6	27722.7	25355.7	22403.7	18918.9	13290.6
72.5°	4212.8	4355.6	6117.5	10064.6	17155.4	25285.1	25528.9	23284.6	19050.0	14006.8	7250.5
75°	1548.2	1592.0	2067.7	4281.7	9950.3	18646.6	18934.0	16691.4	12628.2	6973.1	2762.0
77.5°	927.9	956.6	1159.9	1807.1	3913.5	10658.0	11083.4	9077.8	5519.0	2595.5	1358.3
80°	648.9	669.1	832.2	1124.6	1849.2	4061.5	4439.7	3705.1	2198.8	1642.4	988.5
82.5°	438.7	448.9	585.0	759.8	1228.9	1450.7	1565.1	1647.5	1482.7	1222.1	627.1
85°	287.4	297.6	396.7	500.9	781.7	749.7	766.6	970.0	1082.6	830.4	348.0
87.5°	164.7	171.4	238.8	267.3	383.3	317.7	321.1	511.1	692.6	559.8	211.9
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°	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4	4009.4
2.5°	3994.2	3972.4	3923.6	3893.4	3864.8	3858.1	3846.3	3844.7	3842.9	3842.9	3837.9
5°	3905.1	3868.2	3792.5	3750.4	3715.2	3711.8	3710.1	3718.5	3721.9	3725.3	3720.3
7.5°	3848.0	3797.6	3703.4	3642.9	3600.9	3590.8	3607.6	3646.2	3671.5	3681.6	3676.5
10°	3812.6	3750.4	3641.2	3575.6	3540.3	3535.3	3557.2	3602.5	3654.7	3674.8	3673.1
12.5°	3772.3	3701.8	3585.7	3516.8	3496.7	3506.8	3535.3	3577.4	3631.2	3663.1	3664.7
15°	3732.0	3649.6	3530.3	3469.7	3461.4	3474.8	3501.7	3533.6	3575.6	3607.6	3610.9
17.5°	3683.2	3597.5	3478.1	3415.9	3409.2	3415.9	3417.7	3434.5	3461.4	3491.6	3500.0
20°	3631.2	3543.7	3419.3	3357.1	3326.8	3299.9	3269.7	3273.0	3281.4	3311.7	3318.5
22.5°	3594.1	3506.8	3373.9	3288.2	3207.5	3126.9	3066.3	3057.9	3061.3	3086.4	3094.8
25°	3597.5	3505.0	3362.1	3214.2	3037.8	2908.2	2827.5	2814.1	2812.4	2830.9	2842.7
27.5°	3663.1	3570.6	3405.8	3138.6	2852.8	2661.1	2575.4	2565.4	2551.9	2557.0	2570.4
30°	3809.4	3723.5	3511.8	3061.3	2652.7	2419.1	2330.0	2319.8	2301.4	2292.9	2303.1
32.5°	4048.0	3977.4	3666.5	2987.3	2452.7	2212.3	2121.5	2099.7	2087.9	2077.8	2086.2
35°	4444.7	4414.5	3873.2	2906.6	2276.2	2052.6	1970.2	1936.7	1919.8	1938.3	1951.7
37.5°	5066.8	5083.6	4143.9	2780.5	2140.0	1946.7	1877.7	1839.1	1813.9	1829.0	1844.2
40°	5947.6	5959.4	4443.1	2602.3	2022.4	1884.5	1810.5	1775.2	1739.9	1713.0	1711.3
42.5°	7104.2	6984.9	4737.3	2408.9	1886.2	1845.8	1763.5	1719.8	1666.0	1592.0	1576.9
45°	8476.0	8057.4	4960.9	2187.1	1733.2	1798.8	1711.3	1650.8	1566.8	1486.0	1477.7
47.5°	10056.2	9208.9	5070.2	1956.8	1590.3	1729.8	1647.5	1551.6	1445.7	1405.3	1400.3
50°	11986.1	10575.7	5122.2	1733.2	1465.9	1639.1	1555.0	1442.4	1353.3	1344.9	1339.9
52.5°	14183.2	12219.8	5139.1	1550.0	1363.4	1521.3	1479.4	1370.0	1299.5	1306.2	1306.2
55°	16483.0	13917.7	4910.5	1417.2	1269.2	1400.3	1429.0	1341.5	1282.7	1309.6	1319.6
57.5°	18594.4	15422.2	4190.9	1314.6	1180.1	1307.8	1410.4	1368.4	1328.1	1437.3	1444.0
60°	20214.9	16311.5	3130.1	1222.1	1114.5	1275.9	1459.1	1470.9	1481.0	1741.6	1776.9
62.5°	20554.6	16015.6	2151.8	1149.9	1084.3	1302.8	1548.2	1550.0	1538.2	1719.8	1741.6
65°	18996.2	14144.5	1565.1	1109.5	1059.1	1351.6	1623.9	1588.6	1511.3	1649.1	1608.8
67.5°	15086.0	10656.4	1302.8	1079.2	1022.1	1348.2	1704.6	1623.9	1496.2	1615.5	1550.0
70°	9792.3	6443.6	1159.9	1054.0	978.4	1284.3	1751.7	1620.6	1452.5	1502.9	1425.6
72.5°	4777.6	2881.3	1064.1	1017.0	933.0	1195.2	1750.0	1590.3	1407.1	1403.7	1361.6
75°	1869.3	1319.6	976.7	961.6	855.7	1094.4	1702.9	1546.6	1353.3	1299.5	1284.3
77.5°	1094.4	941.4	865.7	879.2	763.2	993.5	1634.0	1470.9	1279.3	1215.4	1198.6
80°	796.9	704.4	738.0	759.8	652.2	892.6	1541.6	1378.5	1197.0	1228.9	1205.3
82.5°	511.1	453.9	598.4	620.3	543.0	790.1	1440.7	1280.9	1081.0	981.7	958.2
85°	260.5	287.4	445.5	472.4	418.6	648.9	1318.0	1151.5	949.8	817.0	830.4
87.5°	146.3	196.7	284.1	317.7	295.8	499.3	1069.2	949.8	775.0	630.4	554.7
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)