

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: P319163

Luminaire Tested: **GAN-SA9B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319163
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-SA9B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 37294 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

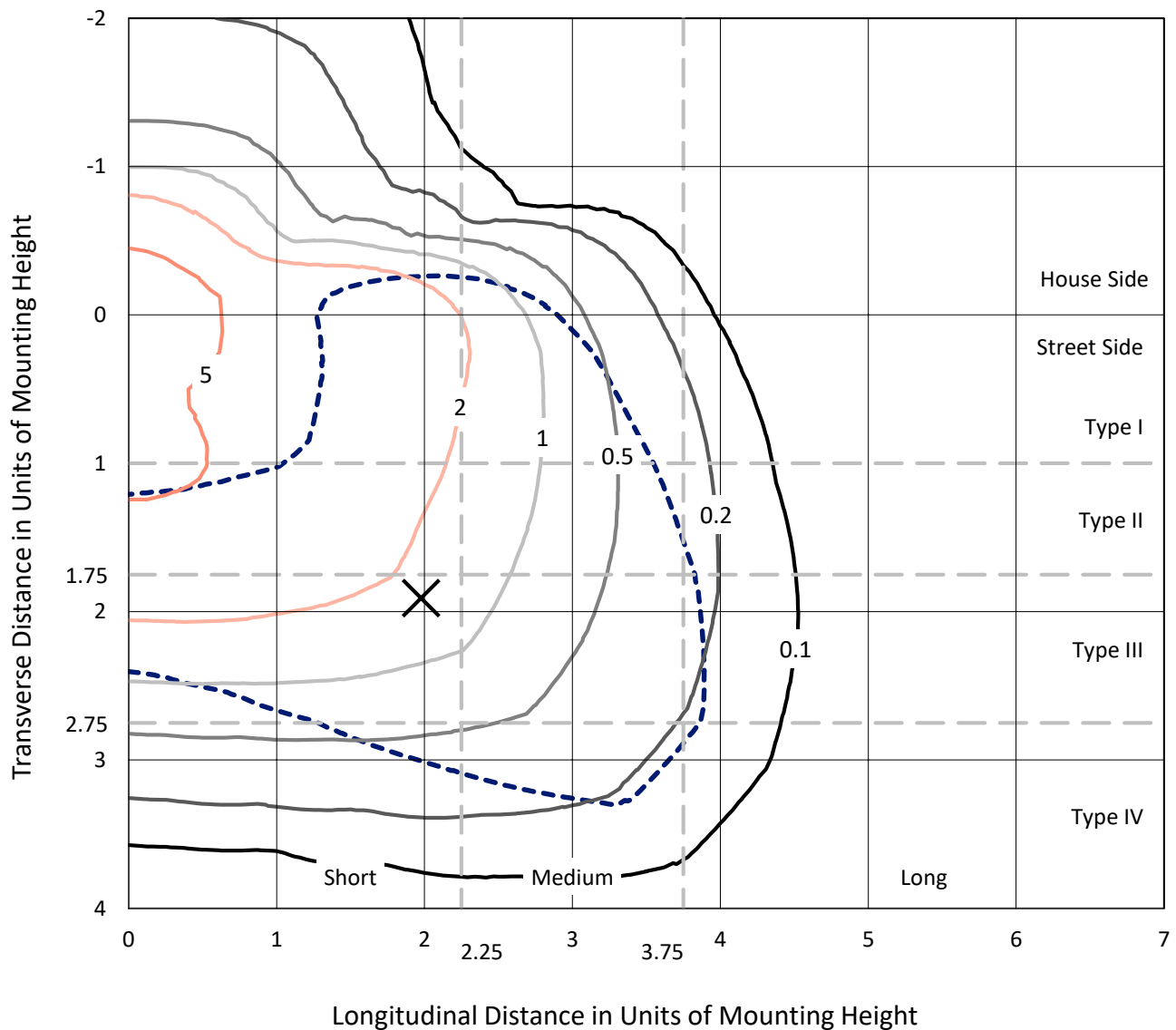
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

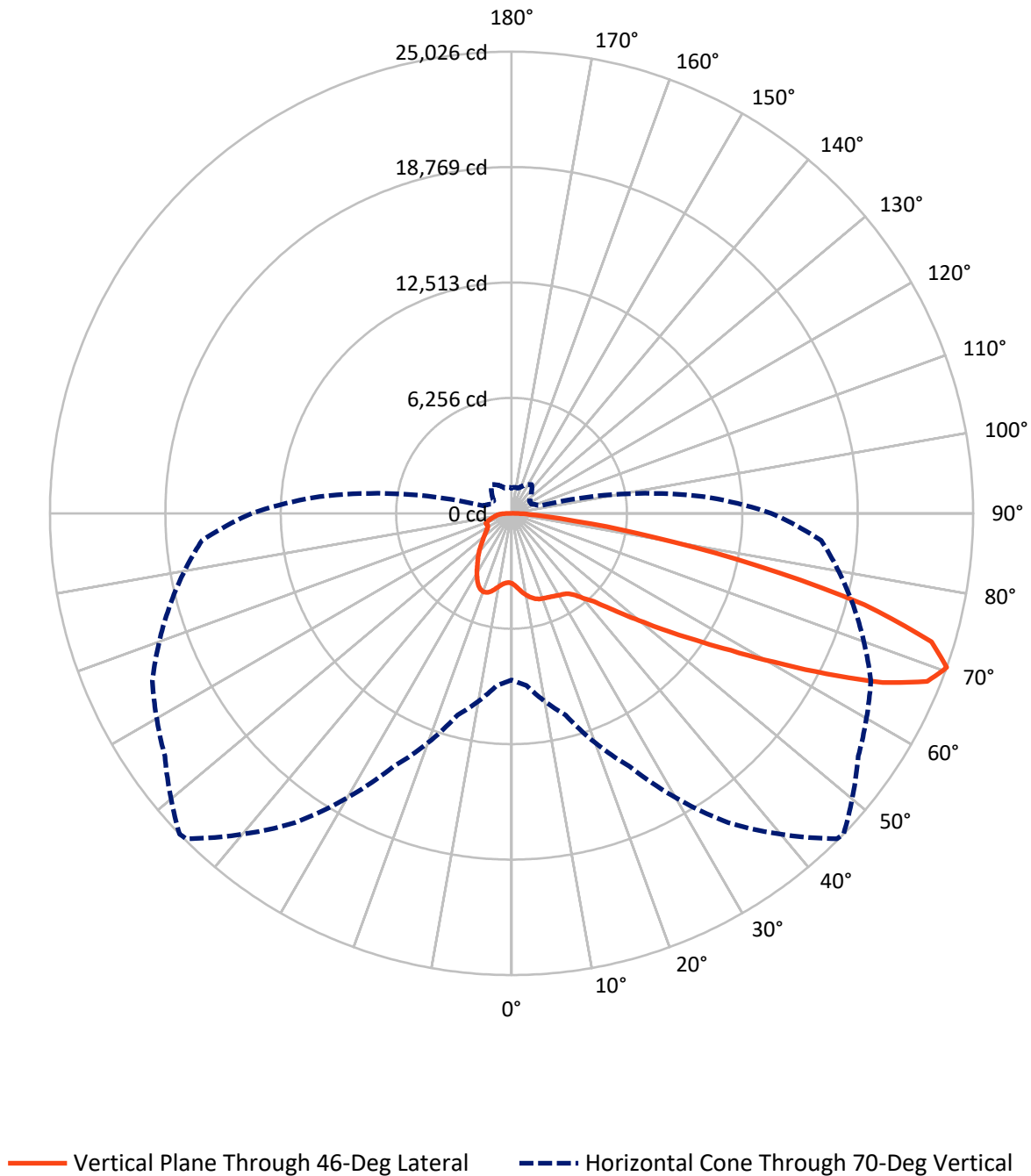
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8547.7	0.0	8547.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28746.3	0.0	28746.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	37294.0	0.0	37294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.3	1.0
10°-20°	1290.5	3.5
20°-30°	2151.7	5.8
30°-40°	3053.4	8.2
40°-50°	4491.4	12.0
50°-60°	7606.2	20.4
60°-70°	10796.9	29.0
70°-80°	6559.2	17.6
80°-90°	957.2	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°	37294.0	100.0
0°-180°	37294.0	100.0

Coefficient of Utilization



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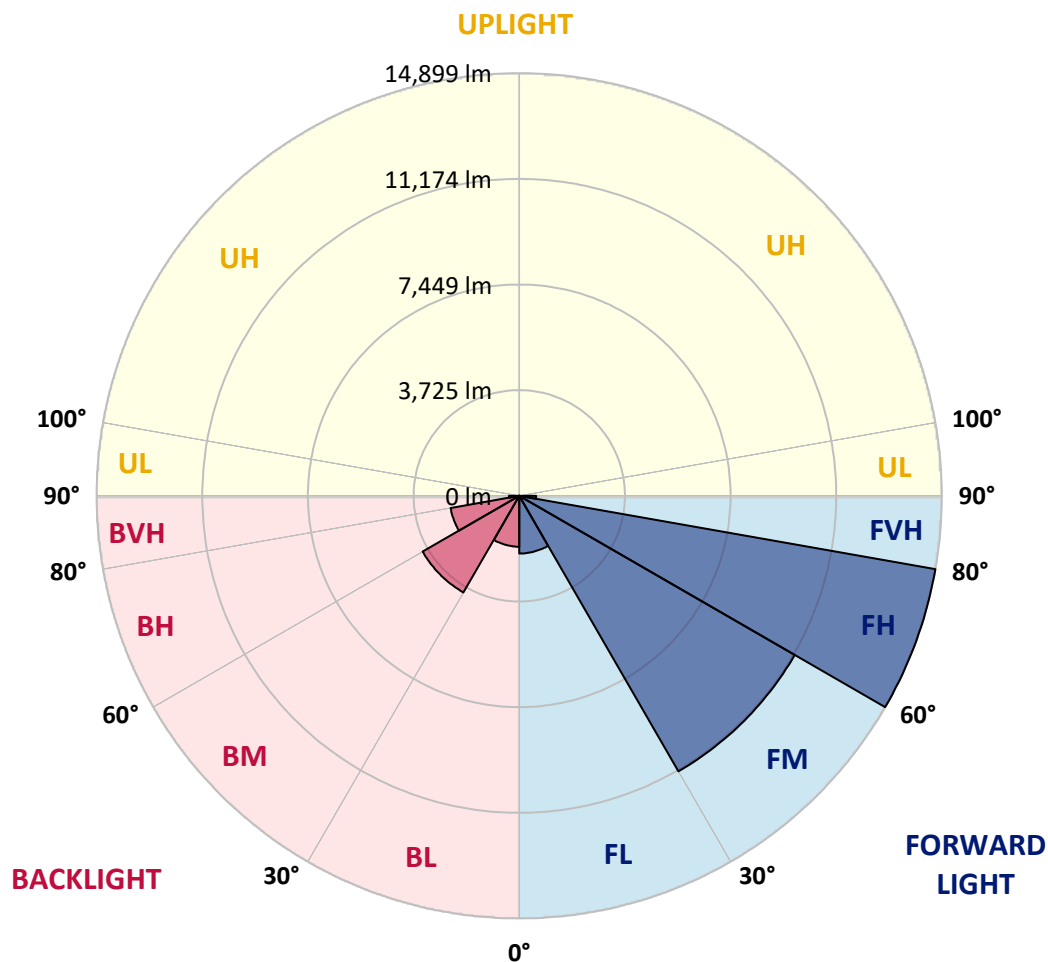
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2034.9	5.5			
FM	(30°-60°)	11216.4	30.1			
FH	(60°-80°)	14898.7	39.9			G5
FVH	(80°-90°)	596.3	1.6			G4/750
BL	(0°-30°)	1794.6	4.8	B3/2500		
BM	(30°-60°)	3934.7	10.6	B3/5000		
BH	(60°-80°)	2457.4	6.6	B3/2500		G3/2500
BVH	(80°-90°)	361.0	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°	46°	55°	65°	75°	85°
0°	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5
2.5°	3989.7	3992.2	3997.4	3984.6	3948.9	3938.6	3934.8	3897.8	3873.6	3837.8	3807.2
5°	4308.8	4311.3	4303.7	4267.9	4188.8	4130.1	4125.0	4040.7	3964.2	3882.5	3821.2
7.5°	4641.9	4645.7	4621.5	4553.8	4442.8	4340.7	4334.3	4219.4	4103.3	3979.5	3887.6
10°	4936.7	4921.4	4881.8	4787.4	4655.9	4530.8	4525.7	4405.8	4271.8	4122.4	3999.9
12.5°	5133.3	5120.5	5069.4	4954.6	4810.4	4695.5	4685.3	4574.2	4444.1	4280.7	4133.9
15°	5241.7	5250.7	5181.8	5051.6	4911.2	4814.2	4805.2	4726.1	4610.0	4445.3	4276.9
17.5°	5255.8	5263.4	5197.1	5068.2	4953.3	4886.9	4883.1	4830.8	4746.5	4588.3	4412.1
20°	5174.1	5179.2	5124.3	5018.4	4943.1	4922.7	4921.4	4898.4	4835.9	4695.5	4524.5
22.5°	5055.4	5059.2	5019.7	4943.1	4917.6	4949.5	4958.4	4949.5	4904.8	4773.3	4612.5
25°	5026.0	5023.5	4982.7	4904.8	4926.5	4994.1	5005.6	5009.5	4978.8	4864.0	4724.8
27.5°	5167.7	5158.8	5080.9	4955.9	4969.9	5051.6	5066.9	5103.9	5084.8	4983.9	4852.5
30°	5577.4	5562.1	5402.6	5149.8	5080.9	5123.0	5142.2	5200.9	5204.7	5120.5	5022.2
32.5°	6269.2	6250.0	5964.1	5512.3	5268.5	5195.8	5213.7	5301.7	5349.0	5283.9	5177.9
35°	7143.4	7121.7	6746.5	6128.8	5582.5	5334.9	5347.7	5417.9	5512.3	5420.4	5280.0
37.5°	8054.7	8002.4	7641.2	6853.7	6081.5	5632.3	5632.3	5641.2	5685.9	5494.4	5400.0
40°	8960.9	8908.5	8581.8	7706.3	6727.3	6100.7	6071.3	5873.5	5837.8	5673.1	5641.2
42.5°	9803.2	9787.9	9595.2	8669.9	7485.5	6561.4	6520.6	6184.9	6192.6	6090.5	6091.8
45°	10699.2	10699.2	10542.2	9642.4	8368.7	7301.7	7260.8	6766.9	6843.5	6796.3	6909.9
47.5°	11430.5	11453.5	11431.8	10655.8	9396.1	8242.3	8168.3	7573.5	7787.9	7950.0	8280.6
50°	12177.1	12212.9	12216.7	11767.4	10637.9	9360.3	9276.1	8644.3	9123.0	9587.5	10237.2
52.5°	13260.7	13341.1	13020.8	12876.5	12159.3	10687.7	10604.7	10021.5	10820.4	11472.6	12591.9
55°	14265.1	14194.9	13966.5	14055.8	13787.8	12198.8	12136.3	11624.5	12711.9	13559.4	15013.1
57.5°	14808.8	14803.7	15033.5	15416.4	15544.0	14062.2	14009.9	13512.1	14844.6	15481.5	17286.1
60°	15447.0	15455.9	16025.2	16894.3	17420.1	16382.5	16359.5	15981.8	16916.0	17275.9	19069.1
62.5°	15536.3	15697.1	16677.3	18173.2	19176.3	19093.4	19144.4	18206.3	18769.2	18707.9	20400.3
65°	14508.9	14720.8	16494.8	18559.9	20922.3	22058.2	22105.4	20443.7	20230.5	19931.9	20876.3
67.5°	12403.0	12717.0	14644.2	17718.8	21497.9	24249.6	24316.0	22178.2	21443.0	20346.7	19730.2
70°	9026.0	9374.4	11314.4	15133.0	20471.8	24950.3	25025.6	22945.2	21489.0	19166.1	16843.3
72.5°	5452.3	5725.5	7324.7	11140.8	17278.5	23674.0	23808.0	21972.7	19619.2	16234.5	12437.5
75°	2394.3	2573.0	3541.7	6419.8	12369.8	19587.3	19754.5	18807.5	15940.9	11798.1	7351.5
77.5°	1019.8	1070.8	1452.4	2788.7	6992.8	13384.5	13614.2	13741.9	10815.3	6419.8	3106.5
80°	635.6	656.0	821.9	1262.3	3272.4	7517.4	7765.0	8085.3	5370.6	2359.9	1084.9
82.5°	386.7	409.7	546.3	763.2	1703.9	3407.7	3526.4	3752.3	2084.2	1019.8	561.6
85°	232.3	248.9	334.4	482.4	970.0	1340.1	1338.8	1480.5	981.5	656.0	296.1
87.5°	111.0	123.8	178.7	250.2	488.8	502.9	471.0	533.5	596.0	430.1	149.3
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°	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5	3799.5
2.5°	3797.0	3791.9	3775.3	3762.5	3760.0	3752.3	3745.9	3749.8	3754.9	3756.1	3756.1
5°	3795.7	3781.7	3760.0	3751.0	3762.5	3777.8	3797.0	3822.5	3837.8	3849.3	3857.0
7.5°	3857.0	3830.2	3805.9	3800.8	3823.8	3864.6	3908.0	3961.6	3998.6	4024.2	4029.3
10°	3959.1	3925.9	3901.6	3906.7	3947.6	4006.3	4067.6	4136.5	4192.6	4227.1	4229.6
12.5°	4076.5	4044.6	4021.6	4043.3	4110.9	4182.4	4246.2	4306.2	4357.3	4391.7	4391.7
15°	4211.8	4188.8	4162.0	4211.8	4303.7	4367.5	4394.3	4423.6	4451.7	4477.2	4472.1
17.5°	4342.0	4320.3	4306.2	4364.9	4460.6	4490.0	4472.1	4450.4	4450.4	4464.5	4467.0
20°	4454.3	4435.1	4444.1	4501.5	4551.3	4520.6	4454.3	4385.3	4357.3	4364.9	4372.6
22.5°	4552.5	4543.6	4570.4	4597.2	4561.5	4454.3	4331.7	4238.6	4204.1	4201.6	4204.1
25°	4667.4	4666.1	4699.3	4650.8	4492.6	4294.7	4130.1	4039.5	4020.3	4035.6	4061.2
27.5°	4810.4	4824.4	4841.0	4663.6	4352.2	4053.5	3886.3	3823.8	3842.9	3879.9	3904.2
30°	4992.9	5031.2	4995.4	4631.7	4150.5	3777.8	3618.3	3600.4	3652.8	3705.1	3730.6
32.5°	5170.3	5230.3	5143.5	4548.7	3890.1	3485.6	3361.8	3356.7	3420.5	3471.5	3507.3
35°	5313.2	5431.9	5254.5	4384.1	3588.9	3216.3	3125.6	3091.2	3114.2	3174.1	3215.0
37.5°	5499.6	5697.4	5331.1	4132.6	3262.2	2994.2	2888.3	2809.1	2788.7	2813.0	2833.4
40°	5840.3	6102.0	5366.8	3781.7	2943.1	2772.1	2664.9	2548.8	2468.4	2409.6	2410.9
42.5°	6396.8	6629.1	5343.8	3355.4	2648.3	2555.1	2433.9	2299.9	2169.7	2037.0	2026.8
45°	7300.4	7412.7	5274.9	2903.6	2389.2	2328.0	2214.4	2080.4	1906.8	1756.2	1742.1
47.5°	8746.4	8497.6	5167.7	2509.2	2160.8	2135.2	2030.6	1876.2	1692.4	1571.1	1560.9
50°	10718.3	10063.6	5115.4	2195.2	1959.1	1966.8	1881.3	1717.9	1544.3	1455.0	1444.8
52.5°	13076.9	11887.4	5216.2	1952.7	1797.0	1823.8	1760.0	1606.9	1461.4	1391.2	1381.0
55°	15523.6	13776.3	5324.7	1776.6	1643.9	1696.2	1674.5	1548.1	1416.7	1351.6	1342.7
57.5°	17618.0	15186.6	5107.7	1633.7	1507.3	1589.0	1608.1	1511.1	1393.7	1335.0	1324.8
60°	18936.4	15754.6	4538.5	1499.6	1398.8	1503.5	1569.8	1500.9	1402.6	1397.5	1389.9
62.5°	19561.8	15704.8	3684.7	1393.7	1331.2	1466.5	1597.9	1558.4	1504.8	1550.7	1554.5
65°	19281.0	14954.3	2744.0	1323.5	1282.7	1480.5	1682.2	1666.8	1534.1	1580.1	1586.4
67.5°	17432.9	13163.7	2031.9	1262.3	1229.1	1520.1	1835.3	1702.6	1476.7	1509.9	1489.4
70°	14090.3	10436.3	1567.3	1193.3	1174.2	1515.0	1904.2	1680.9	1414.1	1421.8	1366.9
72.5°	9716.4	7116.6	1275.0	1129.5	1095.1	1381.0	1855.7	1627.3	1361.8	1303.1	1230.3
75°	5283.9	3819.9	1083.6	1063.2	955.9	1212.5	1766.4	1589.0	1314.6	1236.7	1195.9
77.5°	2079.1	1585.2	940.6	972.5	836.0	1070.8	1666.8	1516.2	1249.5	1147.4	1127.0
80°	848.7	809.2	779.8	841.1	718.6	936.8	1546.9	1430.7	1171.6	1064.4	1023.6
82.5°	481.2	502.9	606.2	663.7	583.3	862.8	1489.4	1361.8	1078.5	953.4	904.9
85°	246.3	294.8	422.5	476.1	428.8	733.9	1372.0	1192.1	865.3	730.0	733.9
87.5°	118.7	164.6	266.7	298.7	278.2	530.9	1024.9	864.1	673.9	533.5	516.9
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)