

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: P318312

Luminaire Tested: **GAN-SA8A-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31241 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

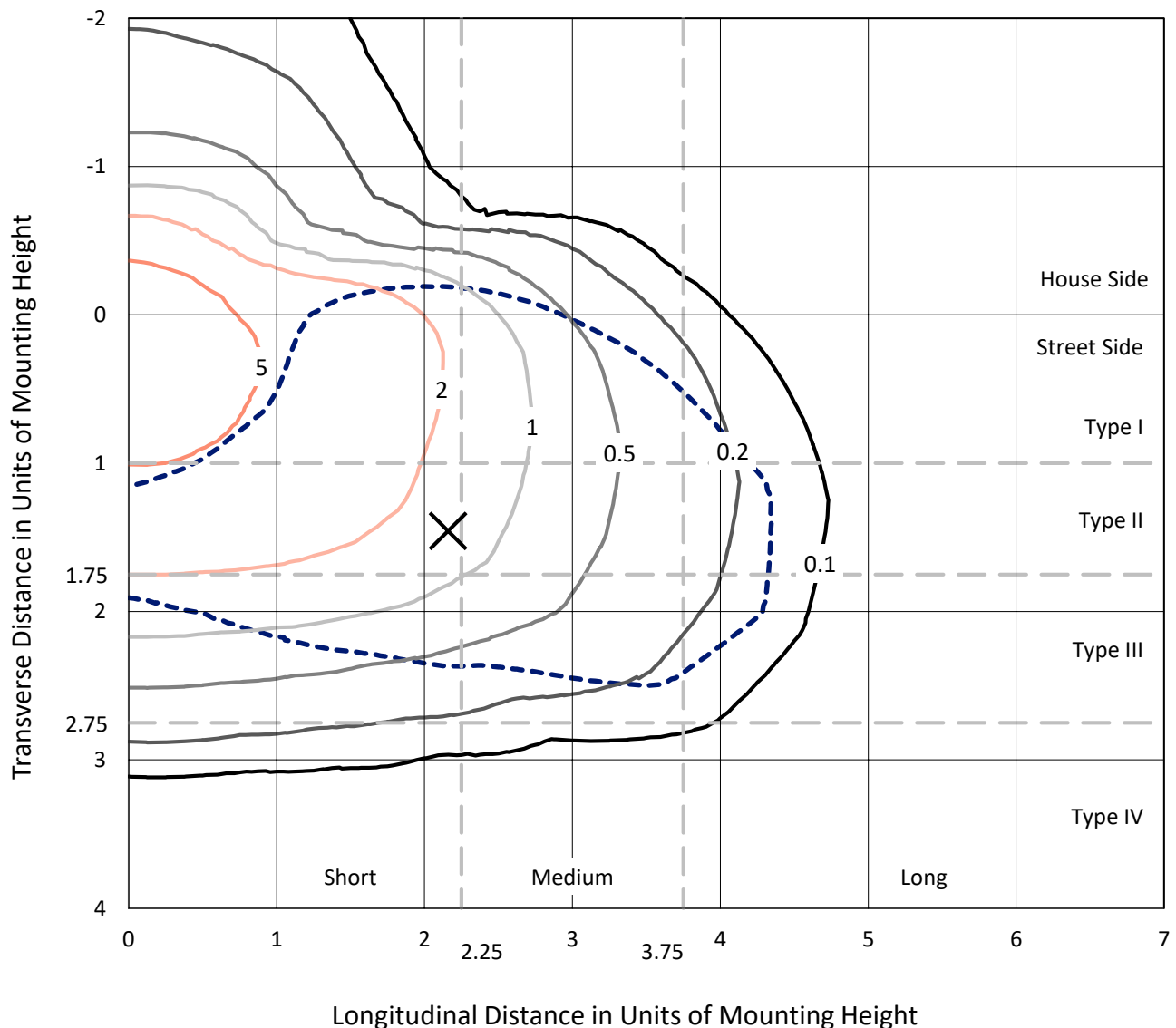
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

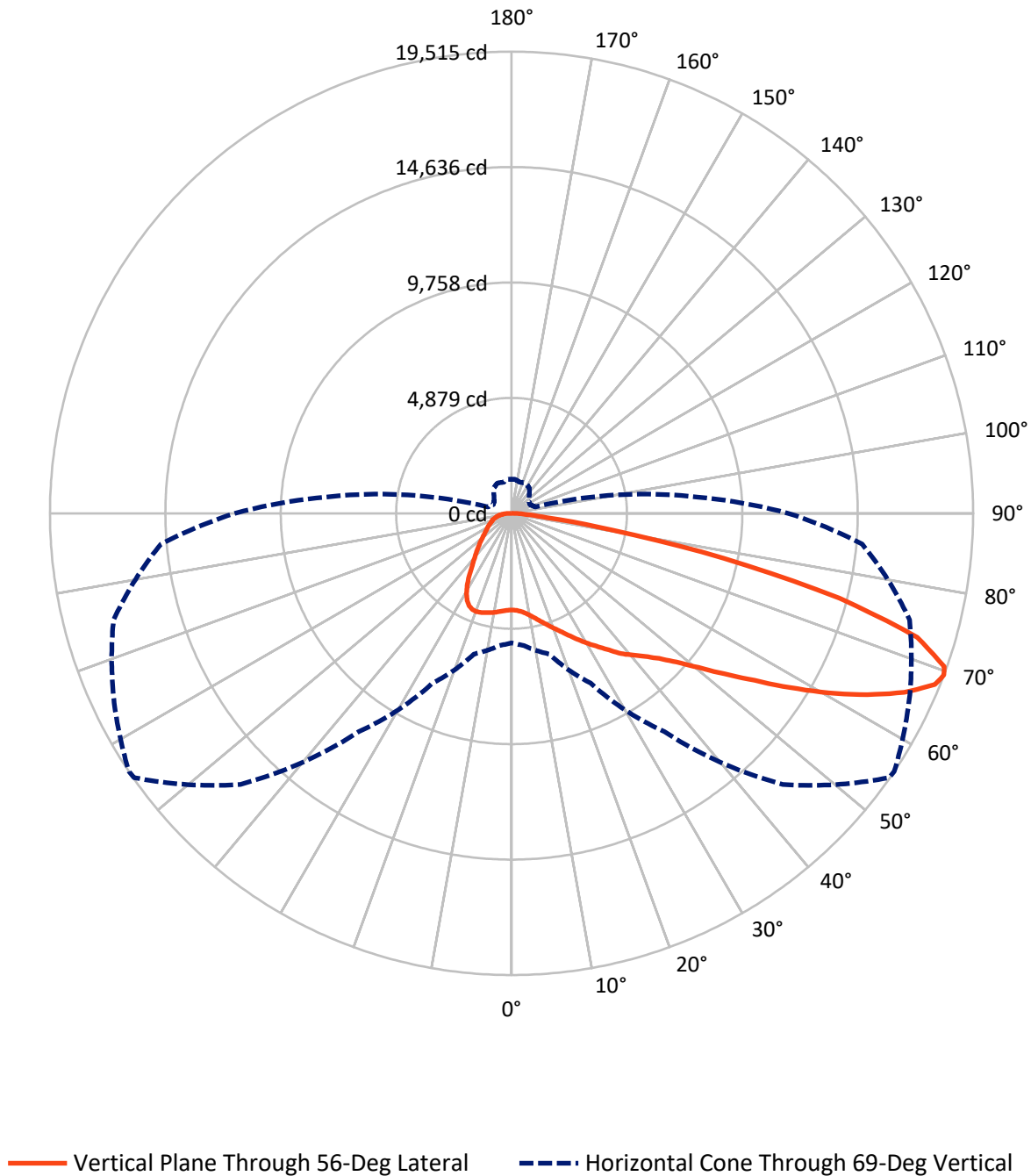
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6957.3	0.0	6957.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24283.7	0.0	24283.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	31241.0	0.0	31241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.1	1.3
10°-20°	1289.9	4.1
20°-30°	2251.7	7.2
30°-40°	3234.5	10.4
40°-50°	4476.3	14.3
50°-60°	6558.5	21.0
60°-70°	7996.0	25.6
70°-80°	4420.7	14.2
80°-90°	612.3	2.0
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°	31241.0	100.0
0°-180°	31241.0	100.0

Coefficient of Utilization



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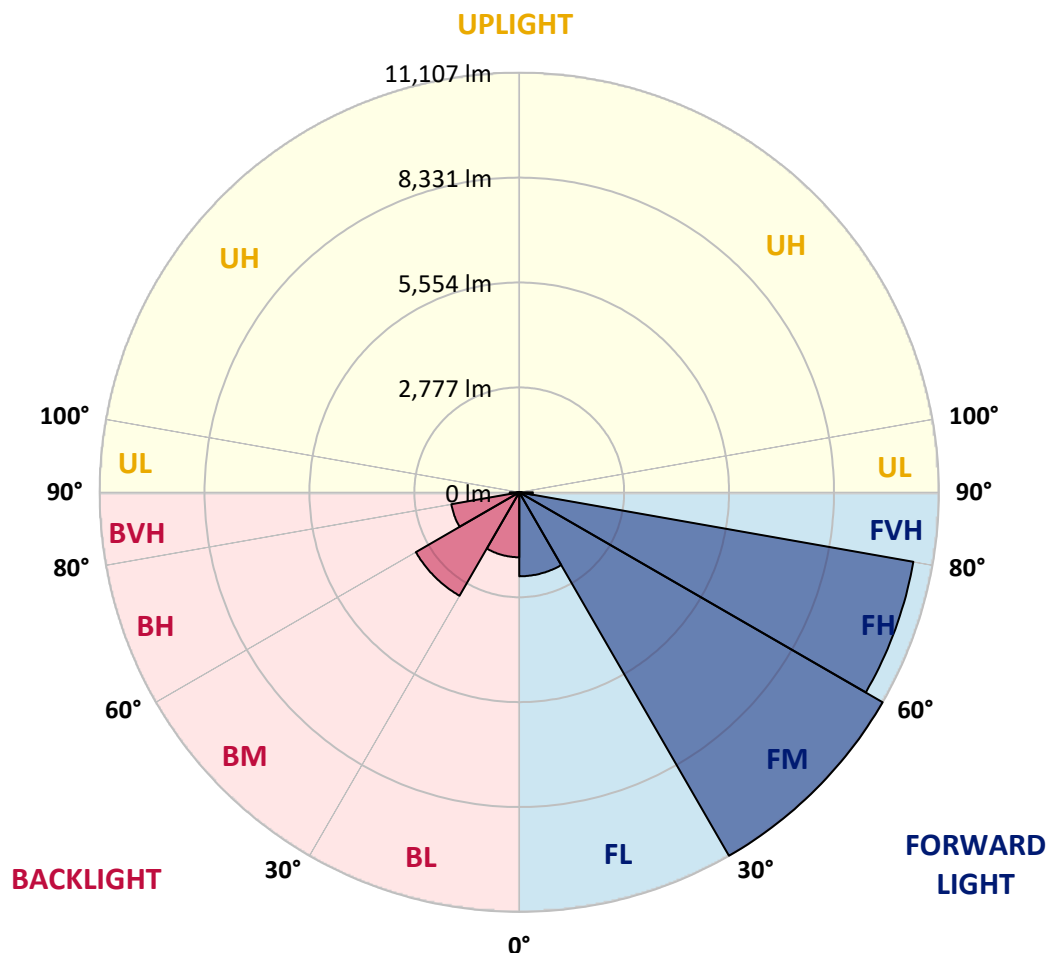
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2223.4	7.1			
FM	(30°-60°)	11107.3	35.6			
FH	(60°-80°)	10592.3	33.9			G4/12000
FVH	(80°-90°)	360.6	1.2			G3/500
BL	(0°-30°)	1719.3	5.5	B3/2500		
BM	(30°-60°)	3161.9	10.1	B3/5000		
BH	(60°-80°)	1824.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	251.6	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3
2.5°	4110.1	4114.4	4111.2	4119.8	4110.1	4116.6	4111.2	4111.2	4108.0	4098.3	4087.5
5°	4174.7	4183.3	4177.9	4186.5	4174.7	4176.8	4167.2	4167.2	4157.5	4137.0	4115.5
7.5°	4275.9	4285.5	4281.2	4289.9	4273.7	4273.7	4260.8	4259.7	4240.3	4207.0	4182.2
10°	4396.4	4409.3	4405.0	4417.9	4405.0	4409.3	4396.4	4396.4	4370.6	4323.2	4292.0
12.5°	4571.8	4588.0	4576.1	4575.1	4569.7	4578.3	4567.5	4565.4	4541.7	4477.1	4434.1
15°	4806.4	4823.7	4798.9	4796.8	4766.6	4763.4	4763.4	4760.2	4745.1	4667.6	4596.6
17.5°	5076.6	5082.0	5060.4	5026.0	4987.2	4962.5	4959.3	4967.9	4967.9	4877.5	4764.5
20°	5341.3	5351.0	5333.8	5295.0	5245.5	5209.0	5183.1	5200.3	5199.3	5091.6	4931.3
22.5°	5629.8	5652.4	5626.5	5577.0	5518.9	5478.0	5432.8	5447.9	5448.9	5316.6	5094.9
25°	6003.2	5982.8	5966.6	5896.7	5813.8	5771.8	5729.8	5744.9	5740.6	5558.7	5263.8
27.5°	6333.6	6337.9	6316.4	6242.1	6146.3	6053.8	6051.6	6061.3	6045.2	5810.6	5423.1
30°	6717.8	6720.0	6689.8	6623.1	6518.7	6399.3	6371.3	6387.4	6353.0	6049.5	5591.0
32.5°	7099.9	7110.6	7077.3	6996.6	6912.6	6767.3	6711.4	6722.1	6636.0	6293.8	5764.3
35°	7434.6	7449.7	7438.9	7385.1	7293.6	7168.8	7102.0	7095.6	6989.0	6593.0	5993.5
37.5°	7775.8	7789.7	7777.9	7732.7	7696.1	7563.7	7528.2	7528.2	7343.1	6898.6	6285.2
40°	8126.6	8148.1	8134.1	8071.7	8040.5	7980.2	7895.2	7874.8	7674.6	7265.6	6760.9
42.5°	8452.7	8480.7	8536.7	8500.1	8436.6	8445.2	8274.1	8263.3	8116.9	7808.0	7358.2
45°	8915.5	8956.4	9051.1	9023.1	9010.2	8962.8	8759.4	8749.7	8693.8	8537.7	8099.7
47.5°	9420.2	9476.2	9647.3	9652.7	9791.5	9702.2	9425.6	9392.3	9405.2	9411.6	9004.8
50°	9885.2	9946.5	10227.4	10359.8	10687.0	10706.3	10264.0	10233.9	10284.4	10433.0	10059.5
52.5°	10256.5	10334.0	10684.8	11093.8	11654.5	11813.8	11296.1	11273.5	11311.2	11567.3	11252.0
55°	10528.8	10612.7	10994.8	11739.5	12634.9	12915.8	12484.3	12462.7	12486.4	12812.5	12548.8
57.5°	10592.2	10612.7	11167.0	12174.3	13462.6	14137.3	13938.2	13895.2	13779.0	14063.1	13980.2
60°	10294.1	10375.9	11024.9	12327.1	14102.9	15341.6	15457.9	15404.1	15078.0	15310.4	15243.7
62.5°	9689.3	9835.7	10494.3	12094.7	14353.7	16325.3	16948.5	16883.9	16322.1	16472.8	16152.1
65°	8701.3	8763.7	9455.8	11292.9	14035.1	16954.9	18277.6	18245.3	17538.2	17302.5	16319.9
67.5°	6934.1	7051.5	7639.1	9617.2	12731.8	16880.7	19305.4	19302.2	18332.5	17610.3	15724.8
69°	5478.0	5599.6	6159.3	7922.1	11266.0	16201.6	19477.6	19515.3	18556.3	17423.1	14874.6
70°	4367.3	4508.3	4892.5	6672.6	9964.8	15306.1	19334.5	19402.3	18513.3	17114.2	14090.0
72.5°	1858.6	1972.7	2246.1	3439.6	6073.2	11429.6	17678.1	17934.3	17515.6	15663.4	11644.8
75°	811.5	847.0	970.8	1402.3	2696.0	6220.6	13848.9	14322.5	14976.8	13239.8	8674.4
77.5°	594.1	609.1	676.9	823.3	1209.7	2349.4	8905.8	9181.3	10801.0	9634.4	5320.9
80°	459.5	470.3	523.0	604.8	790.0	950.3	4061.7	4298.5	6073.2	4948.5	2216.0
82.5°	365.9	373.5	410.0	445.6	545.6	575.8	1348.5	1496.0	2241.8	1366.8	586.5
85°	340.1	348.7	361.6	325.0	349.8	337.9	583.3	610.2	676.9	537.0	245.4
87.5°	153.9	181.9	358.4	252.9	186.2	148.5	238.9	249.7	280.9	282.0	108.7
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°	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3	4084.3
2.5°	4094.0	4090.7	4096.1	4083.2	4099.4	4098.3	4092.9	4095.1	4105.8	4104.7	4105.8
5°	4118.7	4116.6	4123.0	4113.3	4132.7	4139.2	4140.3	4149.9	4161.8	4165.0	4165.0
7.5°	4181.2	4181.2	4184.4	4171.5	4184.4	4183.3	4177.9	4187.6	4199.4	4200.5	4199.4
10°	4288.8	4289.9	4284.5	4251.1	4240.3	4211.3	4184.4	4185.5	4200.5	4212.4	4215.6
12.5°	4424.4	4420.1	4396.4	4335.1	4289.9	4230.7	4202.7	4201.6	4216.7	4226.4	4229.6
15°	4579.4	4567.5	4506.2	4406.1	4326.4	4268.3	4223.1	4212.4	4203.8	4193.0	4194.1
17.5°	4725.7	4698.8	4596.6	4457.7	4373.8	4296.3	4209.1	4139.2	4090.7	4062.8	4054.2
20°	4874.2	4821.5	4674.1	4506.2	4399.6	4258.6	4090.7	3948.7	3860.4	3819.5	3812.0
22.5°	5009.8	4924.8	4746.2	4556.8	4379.2	4131.6	3868.0	3661.3	3538.6	3483.8	3488.1
25°	5142.2	5023.8	4821.5	4592.3	4275.9	3907.8	3558.0	3304.0	3162.0	3100.6	3098.5
27.5°	5258.5	5123.9	4903.3	4563.2	4083.2	3589.2	3191.0	2943.5	2825.1	2772.4	2763.8
30°	5391.9	5249.8	5012.0	4452.4	3801.2	3221.2	2832.6	2658.3	2574.3	2521.6	2511.9
32.5°	5554.4	5421.0	5101.3	4251.1	3440.7	2836.9	2552.8	2431.2	2354.8	2295.6	2284.8
35°	5791.2	5647.0	5123.9	3962.7	3044.7	2533.4	2347.3	2222.4	2119.1	2042.7	2035.1
37.5°	6088.2	5930.0	5072.3	3589.2	2660.4	2336.5	2176.1	2022.2	1887.7	1780.1	1762.9
40°	6516.6	6277.6	4929.1	3158.7	2377.4	2184.7	2009.3	1833.9	1667.1	1541.2	1516.4
42.5°	7031.0	6685.5	4709.6	2730.4	2169.7	2030.8	1843.6	1626.2	1466.9	1377.6	1364.7
45°	7685.4	7109.6	4405.0	2355.9	1965.2	1876.9	1664.9	1464.7	1365.7	1300.1	1289.3
47.5°	8432.3	7585.3	4085.4	2051.3	1791.9	1732.7	1521.8	1392.6	1314.1	1262.4	1252.7
50°	9350.3	8122.3	3746.4	1801.6	1617.6	1559.5	1454.0	1352.8	1290.4	1250.6	1240.9
52.5°	10385.6	8728.2	3502.1	1604.7	1473.4	1431.4	1418.5	1331.3	1280.7	1250.6	1240.9
55°	11500.6	9344.9	3238.4	1438.9	1348.5	1360.4	1394.8	1333.4	1299.0	1262.4	1248.4
57.5°	12616.6	9982.0	2944.6	1299.0	1249.5	1307.6	1378.6	1337.8	1308.7	1273.2	1260.3
60°	13499.1	10385.6	2489.3	1181.7	1170.9	1249.5	1339.9	1305.5	1267.8	1268.9	1266.7
62.5°	13911.3	10364.1	1986.7	1077.3	1092.4	1170.9	1277.5	1254.9	1223.7	1265.6	1268.9
65°	13680.0	9847.5	1546.5	982.6	1008.4	1089.1	1212.9	1230.1	1240.9	1321.6	1332.4
67.5°	12709.2	8842.3	1197.8	899.7	932.0	1033.2	1219.4	1339.9	1353.9	1438.9	1437.8
69°	11705.1	7899.5	1040.7	856.7	894.3	1047.2	1303.3	1409.9	1357.1	1447.5	1434.6
70°	10863.5	7153.7	956.8	827.6	877.1	1071.9	1359.3	1408.8	1341.0	1418.5	1396.9
72.5°	8366.6	5146.5	811.5	773.8	819.0	1025.6	1375.4	1377.6	1303.3	1318.4	1281.8
75°	5738.5	3252.4	708.2	700.6	730.8	924.5	1323.8	1316.2	1205.4	1183.9	1153.7
77.5°	3164.1	1652.0	601.6	630.7	651.1	819.0	1203.2	1192.5	1101.0	1055.8	1045.0
80°	1220.4	723.2	508.0	560.7	573.6	709.2	1054.7	1045.0	968.6	910.5	894.3
82.5°	460.6	378.8	419.7	485.4	481.1	585.5	893.3	887.9	813.6	728.6	702.8
85°	213.1	227.1	332.6	400.4	369.1	433.7	714.6	724.3	633.9	532.7	532.7
87.5°	90.4	127.0	235.7	302.4	248.6	292.7	524.1	500.4	459.5	318.6	299.2
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)