

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: P317911

Luminaire Tested: **GAN-SA7A-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26782 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

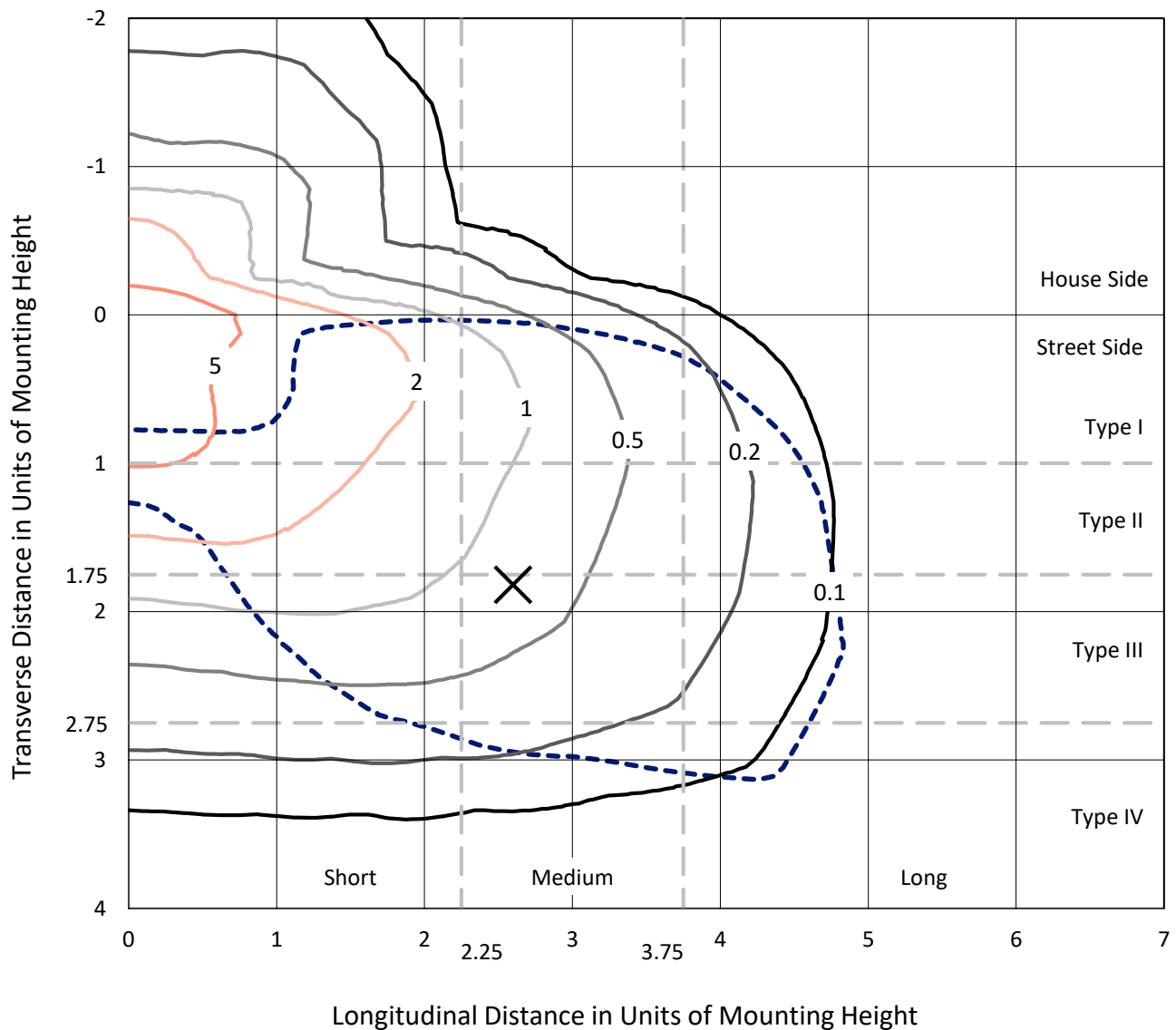
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

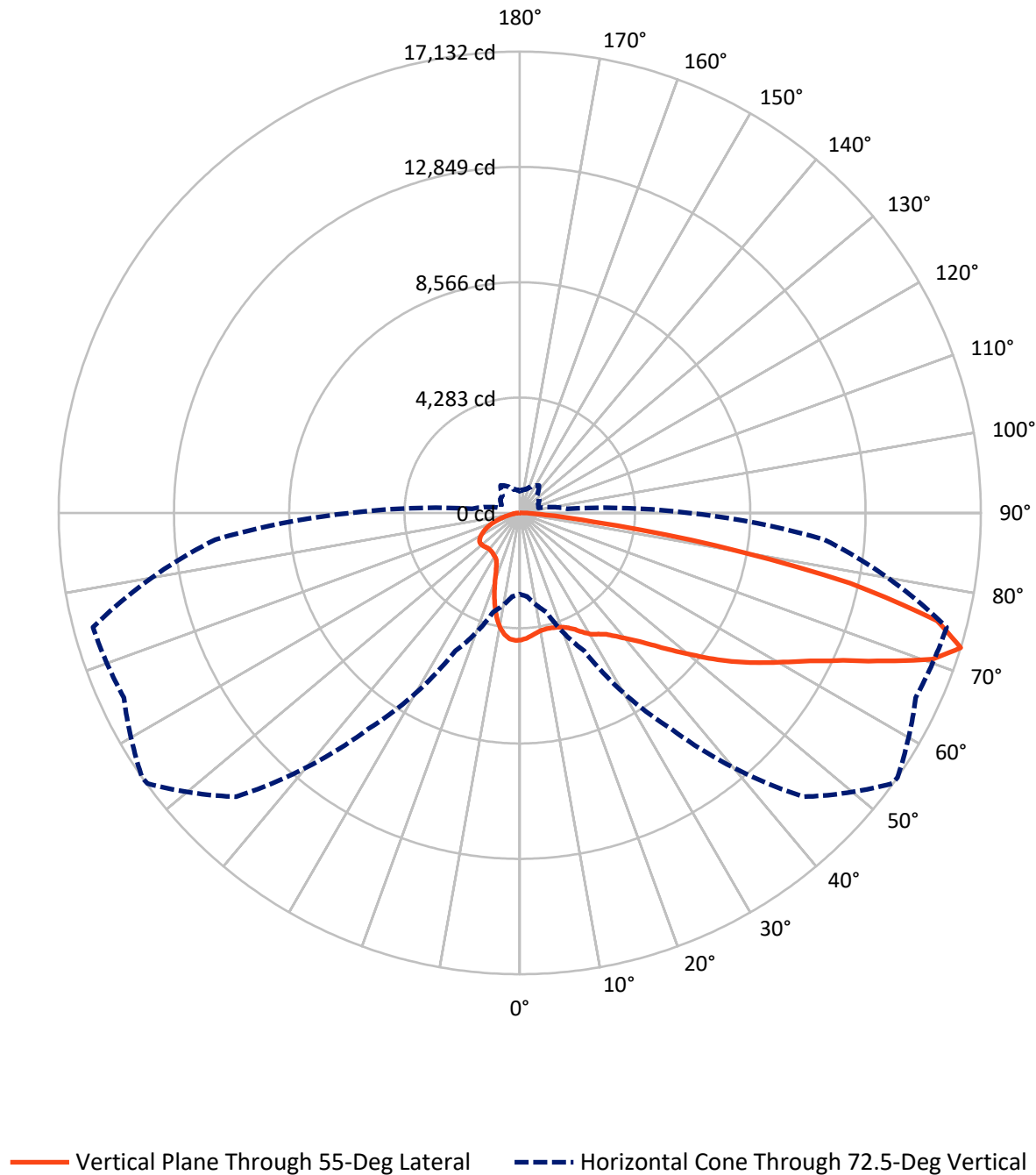
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4977.9	0.0	4977.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	21804.1	0.0	21804.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	26782.0	0.0	26782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.4	1.6
10°-20°	1138.0	4.2
20°-30°	1876.3	7.0
30°-40°	2775.5	10.4
40°-50°	3874.1	14.5
50°-60°	5044.1	18.8
60°-70°	6199.1	23.1
70°-80°	4859.3	18.1
80°-90°	588.1	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°	26782.0	100.0
0°-180°	26782.0	100.0

Coefficient of Utilization



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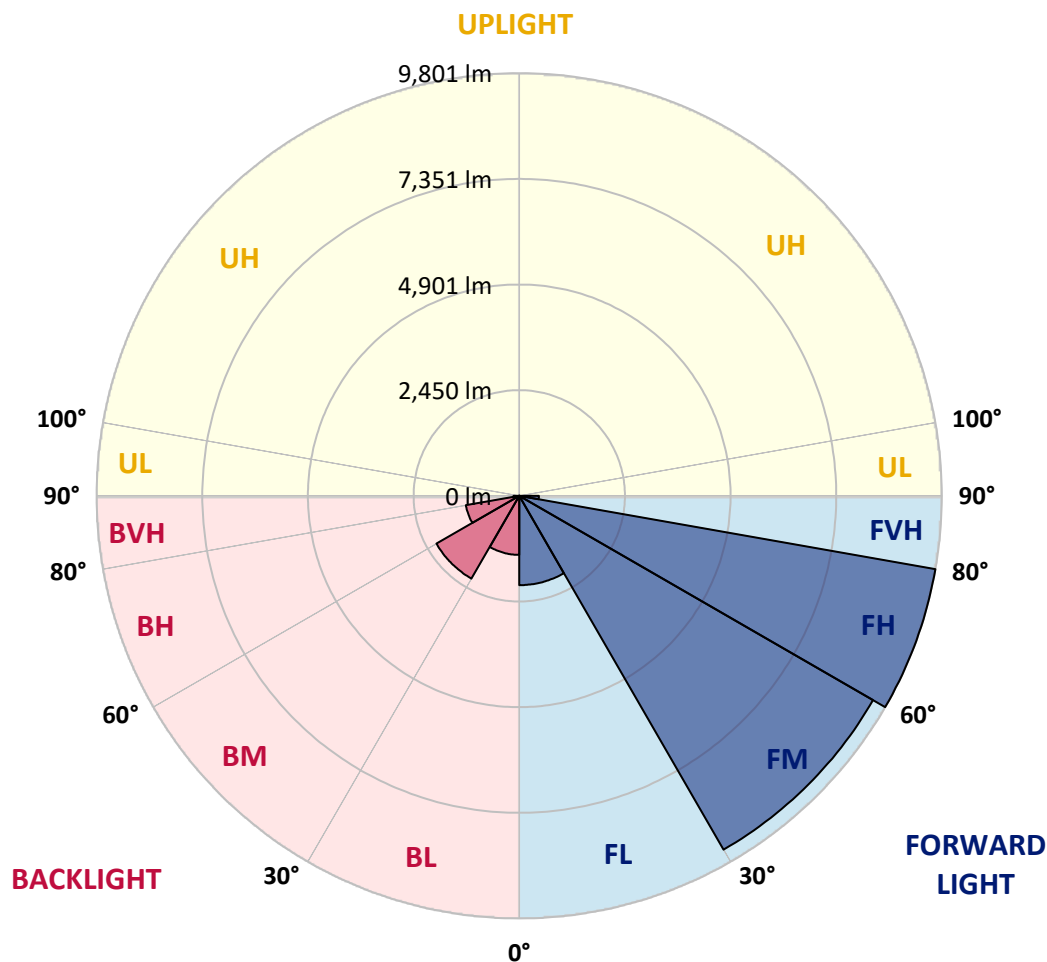
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2072.1	7.7			
FM	(30°-60°)	9476.0	35.4			
FH	(60°-80°)	9801.3	36.6			G4/12000
FVH	(80°-90°)	454.7	1.7			G3/500
BL	(0°-30°)	1369.6	5.1	B3/2500		
BM	(30°-60°)	2217.7	8.3	B2/2500		
BH	(60°-80°)	1257.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	133.4	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8
2.5°	4570.0	4559.1	4572.7	4591.7	4612.5	4640.5	4656.8	4664.1	4692.1	4703.0	4726.5
5°	4358.3	4352.9	4375.5	4408.1	4454.2	4519.3	4571.8	4581.7	4655.9	4708.4	4756.3
7.5°	4204.5	4204.5	4230.8	4269.7	4321.2	4409.0	4483.1	4496.7	4622.5	4735.5	4824.2
10°	4082.4	4086.9	4117.7	4163.8	4224.4	4317.6	4416.2	4431.6	4613.4	4798.8	4940.0
12.5°	4001.0	4011.9	4039.9	4081.5	4156.6	4269.7	4394.5	4415.3	4632.4	4889.3	5079.3
15°	4052.6	4070.7	4073.4	4090.6	4132.2	4255.2	4407.2	4428.9	4673.1	4981.6	5237.6
17.5°	4278.7	4285.0	4257.0	4220.8	4200.9	4279.6	4445.2	4467.8	4722.0	5072.9	5389.5
20°	4622.5	4618.8	4558.2	4460.5	4359.2	4371.9	4507.6	4531.1	4788.0	5153.4	5541.5
22.5°	5056.7	5044.0	4950.8	4770.8	4598.0	4525.7	4617.0	4636.9	4887.5	5268.3	5704.3
25°	5583.1	5555.1	5432.1	5190.5	4936.3	4750.0	4781.7	4800.7	5032.2	5396.8	5853.6
27.5°	6138.5	6110.5	5954.0	5661.8	5323.5	5033.1	5008.7	5025.0	5196.9	5491.8	5964.0
30°	6719.3	6689.4	6546.5	6219.1	5734.2	5326.2	5220.4	5226.7	5312.7	5543.3	6054.4
32.5°	7302.8	7274.7	7114.6	6734.7	6180.2	5641.0	5373.3	5365.1	5382.3	5596.7	6156.6
35°	7894.4	7905.2	7718.0	7297.3	6674.1	5991.1	5554.2	5537.0	5499.0	5706.2	6301.4
37.5°	8527.6	8520.3	8277.9	7838.3	7190.6	6371.0	5813.8	5811.1	5679.9	5913.3	6528.4
40°	8950.9	8955.4	8808.0	8391.9	7712.5	6791.7	6146.7	6140.4	5968.5	6223.6	6826.0
42.5°	9116.5	9146.3	9184.3	8920.2	8258.9	7279.2	6543.8	6534.8	6371.0	6668.6	7176.1
45°	9128.2	9187.9	9423.1	9389.6	8812.5	7837.4	7051.3	7025.9	6908.4	7260.2	7594.0
47.5°	9026.9	9088.4	9479.2	9669.2	9307.3	8426.3	7644.7	7624.8	7523.5	8000.2	8046.3
50°	8805.3	8864.1	9363.4	9805.8	9714.4	8992.5	8328.6	8276.1	8221.8	8855.0	8563.8
52.5°	8390.1	8503.1	9208.7	9838.3	9957.7	9495.5	9047.7	9013.3	9043.2	9756.9	9082.1
55°	7406.8	7533.4	8809.8	9811.2	10137.7	9917.9	9766.9	9765.0	9919.7	10703.1	9638.4
57.5°	6855.9	6945.4	7997.5	9765.0	10351.2	10337.7	10478.8	10496.0	10797.2	11733.4	10221.0
60°	6544.7	6638.8	7585.9	9594.1	10682.3	10880.4	11205.2	11239.5	11689.1	12874.1	10922.0
62.5°	6261.6	6364.7	7330.8	9245.8	11072.2	11656.5	12075.4	12106.1	12633.5	14046.5	11599.6
65°	5777.6	5894.3	6957.2	9017.0	11426.8	12668.8	13181.7	13202.5	13718.1	15274.9	12117.9
67.5°	5093.7	5200.5	6252.5	8511.3	11689.1	13898.1	14652.5	14664.3	14793.7	16142.4	12382.9
70°	4295.0	4335.7	5248.4	7467.4	11378.8	15047.9	16264.5	16267.2	15774.2	16697.8	12339.5
72.5°	3017.7	3113.6	3810.1	5652.8	9778.6	14907.6	17101.3	17132.0	16230.2	16417.4	11353.5
75°	1850.8	1952.1	2389.9	3425.7	6203.7	11724.4	15800.5	16014.0	15375.3	14638.1	9274.8
77.5°	1237.5	1275.5	1559.5	1997.3	2810.6	6745.5	12147.7	12549.4	12772.8	10675.1	5931.4
80°	690.2	762.6	1033.9	1241.1	1250.1	2680.3	7283.8	7377.8	7106.5	4250.7	1830.0
82.5°	365.5	405.3	690.2	729.1	682.1	897.4	2714.7	2717.4	2270.5	1139.8	543.7
85°	283.1	316.6	473.1	445.1	348.3	398.0	895.5	944.4	772.5	466.8	177.3
87.5°	141.1	175.5	321.1	282.2	136.6	114.0	320.2	341.9	304.8	182.7	64.2
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°	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8	4723.8
2.5°	4735.5	4743.7	4753.6	4742.8	4739.1	4724.7	4700.2	4694.8	4682.2	4683.1	4690.3
5°	4777.1	4790.7	4785.3	4743.7	4693.9	4624.3	4551.9	4490.4	4449.7	4447.0	4444.3
7.5°	4856.7	4865.8	4823.3	4704.8	4565.5	4404.4	4252.5	4119.5	4039.0	4019.1	4014.6
10°	4981.6	4979.8	4863.1	4624.3	4346.6	4058.9	3814.7	3630.1	3522.5	3490.8	3482.7
12.5°	5120.9	5100.1	4876.6	4477.7	4037.2	3638.3	3328.9	3123.5	3011.4	2975.2	2966.2
15°	5264.7	5213.2	4843.2	4258.8	3657.3	3185.1	2860.3	2670.3	2609.7	2589.8	2586.2
17.5°	5398.6	5299.1	4747.3	3962.1	3224.0	2733.7	2480.4	2404.4	2418.9	2445.1	2446.0
20°	5529.8	5357.0	4593.5	3587.6	2767.1	2361.9	2275.9	2332.0	2400.8	2454.2	2461.4
22.5°	5659.1	5397.7	4395.4	3155.2	2358.3	2152.9	2213.5	2315.8	2394.4	2452.3	2462.3
25°	5767.7	5407.6	4122.2	2693.9	2074.2	2074.2	2183.7	2280.5	2358.3	2415.3	2425.2
27.5°	5807.5	5340.7	3736.9	2266.9	1931.3	2038.0	2142.1	2222.6	2288.6	2349.2	2360.1
30°	5822.8	5216.8	3291.8	1924.1	1872.5	1999.1	2086.0	2154.7	2217.1	2274.1	2284.1
32.5°	5825.6	5067.5	2819.6	1729.6	1831.8	1958.4	2016.3	2076.9	2143.9	2166.5	2170.1
35°	5842.7	4891.1	2322.1	1630.1	1793.8	1920.4	1966.6	2010.0	1901.4	1909.6	1916.8
37.5°	5892.5	4716.5	1906.0	1574.0	1769.4	1900.5	1955.7	1798.3	1713.3	1693.4	1690.7
40°	5985.7	4530.2	1597.5	1528.8	1760.3	1910.5	1886.1	1678.9	1532.4	1422.9	1406.6
42.5°	6115.0	4329.4	1400.3	1498.9	1766.7	1958.4	1789.3	1564.0	1320.7	1250.1	1241.1
45°	6260.7	4118.6	1293.6	1478.1	1788.4	1995.5	1769.4	1411.2	1222.1	1168.7	1164.2
47.5°	6401.8	3860.8	1238.4	1469.1	1818.2	1965.7	1685.3	1364.1	1175.1	1147.0	1149.7
50°	6563.7	3628.3	1204.9	1459.1	1844.5	1946.7	1590.3	1339.7	1157.0	1191.3	1227.5
52.5°	6700.3	3387.7	1175.1	1439.2	1854.4	1913.2	1565.8	1344.2	1157.0	1223.0	1257.4
55°	6862.2	3205.9	1140.7	1397.6	1835.4	1818.2	1548.7	1371.4	1170.5	1128.9	1132.5
57.5°	7071.2	3146.2	1102.7	1332.5	1772.1	1679.8	1540.5	1397.6	1162.4	1136.2	1145.2
60°	7360.6	3209.5	1087.3	1247.4	1673.5	1571.3	1541.4	1384.0	1105.4	1060.2	1061.1
62.5°	7636.5	3280.0	1086.4	1194.1	1552.3	1474.5	1520.6	1339.7	1076.5	1050.2	1060.2
65°	7727.0	3208.6	1043.0	1134.4	1415.7	1358.7	1482.6	1292.7	1054.8	1014.9	1013.1
67.5°	7605.8	2987.0	955.2	1037.6	1259.2	1223.9	1432.9	1236.6	1020.4	987.8	982.4
70°	7245.8	2492.1	846.7	910.0	1081.0	1071.9	1354.2	1171.4	974.2	946.2	922.7
72.5°	6276.9	1775.7	713.7	757.1	880.2	909.1	1245.6	1086.4	909.1	848.5	812.3
75°	5155.3	1314.4	586.2	595.2	668.5	747.2	1096.4	986.9	832.2	729.1	701.1
77.5°	3157.0	804.2	466.8	470.4	479.4	596.1	902.8	875.6	734.5	607.9	588.0
80°	1022.2	438.7	337.4	354.6	327.5	436.9	698.3	745.4	630.5	508.4	486.7
82.5°	389.0	256.0	228.0	239.7	227.1	293.1	509.3	597.0	516.5	417.9	340.1
85°	188.2	144.7	134.8	151.1	140.2	150.2	325.7	439.6	391.7	272.3	253.3
87.5°	66.9	64.2	51.6	69.7	59.7	53.4	99.5	221.6	258.7	187.3	167.3
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)