

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: P317920

Luminaire Tested: **GAN-SA6B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317920
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-SA6B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27770 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

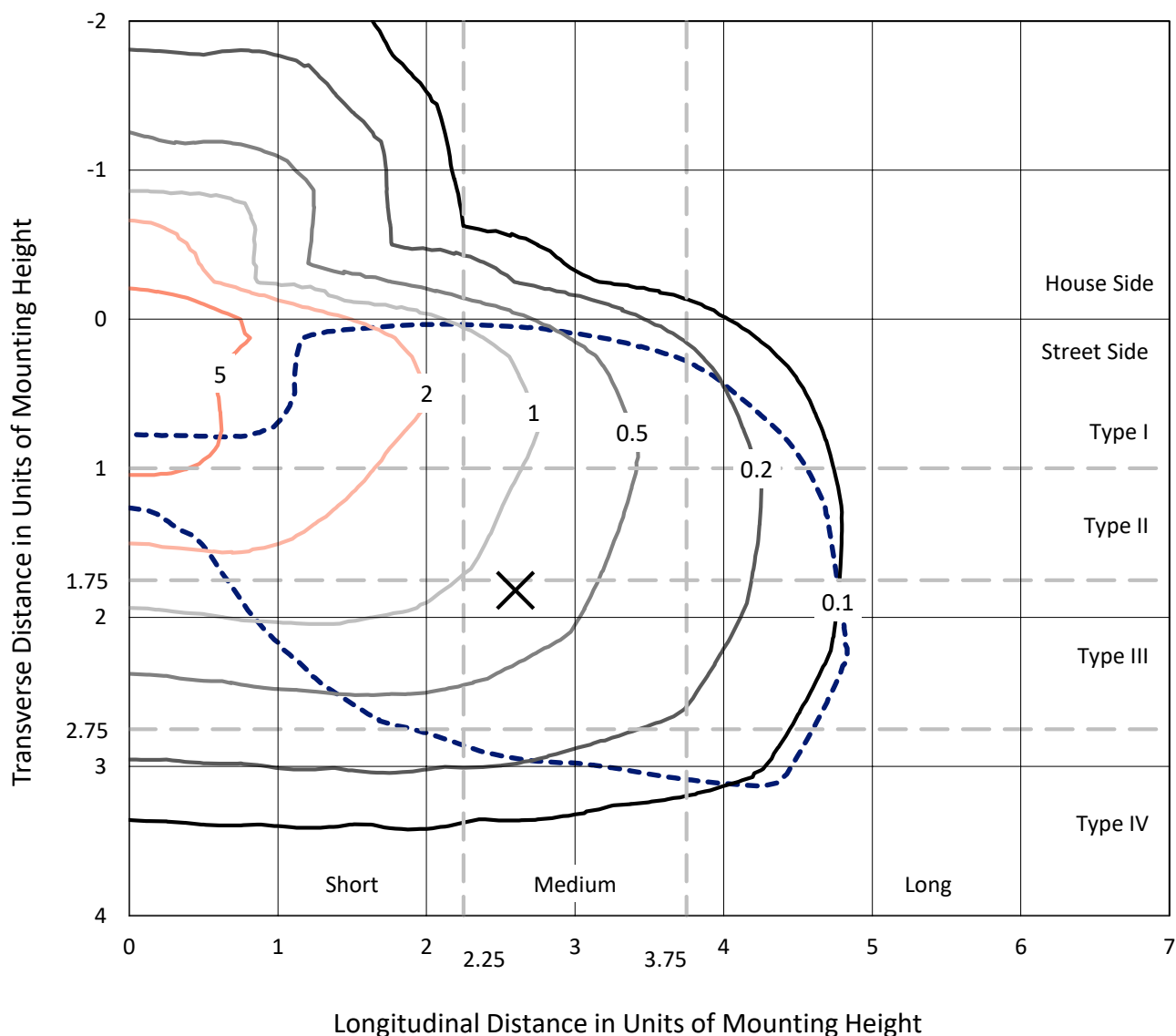
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317920
 CATALOG NUMBER: GAN-SA6B-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

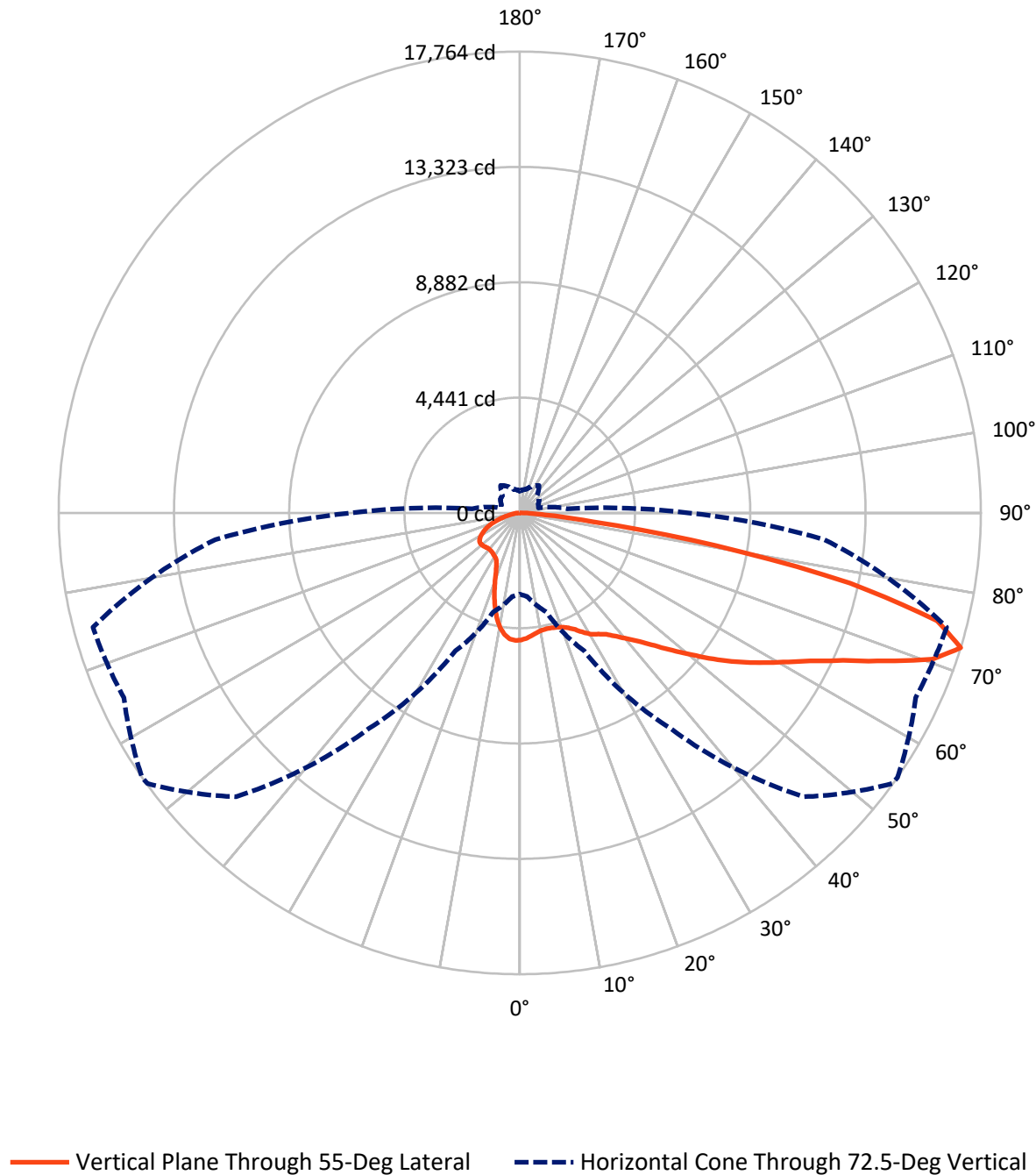
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317920
CATALOG NUMBER: GAN-SA6B-830-U-T3R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5161.5	0.0	5161.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22608.5	0.0	22608.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	27770.0	0.0	27770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.2	1.6
10°-20°	1180.0	4.2
20°-30°	1945.5	7.0
30°-40°	2877.9	10.4
40°-50°	4017.0	14.5
50°-60°	5230.2	18.8
60°-70°	6427.8	23.1
70°-80°	5038.6	18.1
80°-90°	609.7	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°	27770.0	100.0
0°-180°	27770.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317920

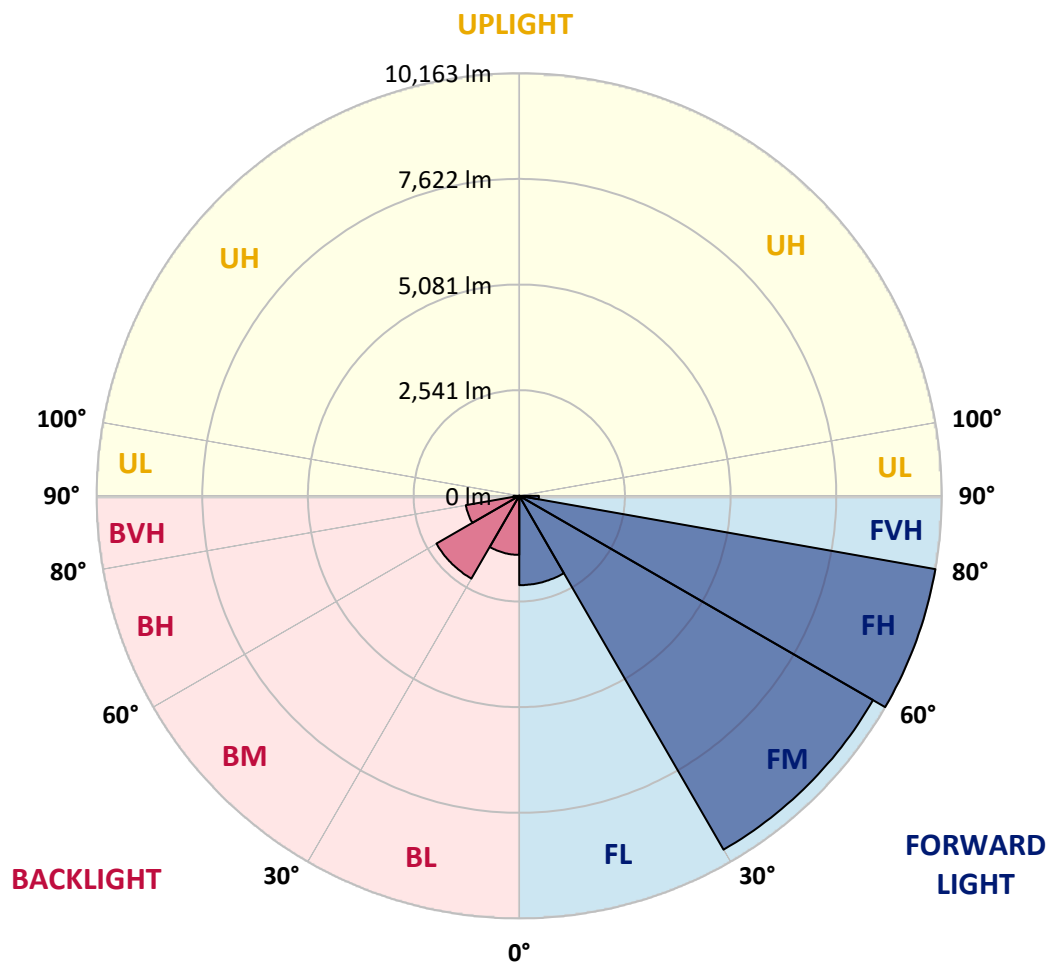
CATALOG NUMBER: GAN-SA6B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2148.6	7.7			
FM	(30°-60°)	9825.6	35.4			
FH	(60°-80°)	10162.9	36.6			G4/12000
FVH	(80°-90°)	471.4	1.7			G3/500
BL	(0°-30°)	1420.2	5.1	B3/2500		
BM	(30°-60°)	2299.5	8.3	B2/2500		
BH	(60°-80°)	1303.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	138.3	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





REPORT NUMBER: P317920

CATALOG NUMBER: GAN-SA6B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0
2.5°	4738.6	4727.3	4741.4	4761.1	4782.7	4811.7	4828.6	4836.1	4865.2	4876.5	4900.8
5°	4519.1	4513.5	4536.9	4570.7	4618.5	4686.1	4740.5	4750.8	4827.7	4882.1	4931.8
7.5°	4359.6	4359.6	4386.8	4427.2	4480.6	4571.6	4648.5	4662.6	4793.0	4910.2	5002.1
10°	4233.0	4237.7	4269.6	4317.4	4380.3	4476.9	4579.1	4595.1	4783.6	4975.9	5122.2
12.5°	4148.6	4159.9	4188.9	4232.1	4309.9	4427.2	4556.6	4578.2	4803.3	5069.7	5266.6
15°	4202.1	4220.8	4223.6	4241.5	4284.6	4412.2	4569.7	4592.3	4845.5	5165.3	5430.8
17.5°	4436.6	4443.1	4414.0	4376.5	4355.9	4437.5	4609.1	4632.6	4896.2	5260.1	5588.4
20°	4793.0	4789.2	4726.4	4625.1	4520.0	4533.2	4673.9	4698.2	4964.6	5343.6	5745.9
22.5°	5243.2	5230.1	5133.5	4946.8	4767.7	4692.6	4787.4	4808.0	5067.8	5462.7	5914.8
25°	5789.1	5760.0	5632.5	5382.0	5118.5	4925.2	4958.1	4977.8	5217.9	5595.9	6069.5
27.5°	6365.0	6335.9	6173.7	5870.7	5519.9	5218.8	5193.5	5210.4	5388.6	5694.4	6184.0
30°	6967.2	6936.2	6788.0	6448.5	5945.7	5522.7	5413.0	5419.5	5508.6	5747.8	6277.8
32.5°	7572.2	7543.1	7377.1	6983.1	6408.1	5849.1	5571.5	5563.0	5580.9	5803.2	6383.8
35°	8185.6	8196.8	8002.7	7566.5	6920.3	6212.1	5759.1	5741.3	5701.9	5916.7	6533.8
37.5°	8842.2	8834.7	8583.3	8127.4	7455.8	6606.1	6028.3	6025.5	5889.5	6131.4	6769.3
40°	9281.1	9285.8	9132.9	8701.5	7997.1	7042.2	6373.4	6366.9	6188.7	6453.2	7077.9
42.5°	9452.8	9483.7	9523.1	9249.2	8563.6	7547.8	6785.2	6775.8	6606.1	6914.6	7440.8
45°	9465.0	9526.9	9770.7	9736.0	9137.6	8126.5	7311.4	7285.1	7163.2	7528.1	7874.2
47.5°	9359.9	9423.7	9828.9	10025.9	9650.7	8737.1	7926.7	7906.1	7801.0	8295.3	8343.2
50°	9130.1	9191.1	9708.8	10167.5	10072.8	9324.3	8635.8	8581.4	8525.1	9181.7	8879.7
52.5°	8699.6	8816.8	9548.4	10201.3	10325.1	9845.8	9381.5	9345.8	9376.8	10116.8	9417.1
55°	7680.0	7811.3	9134.8	10173.1	10511.7	10283.8	10127.2	10125.3	10285.7	11098.0	9994.0
57.5°	7108.8	7201.7	8292.5	10125.3	10733.1	10719.0	10865.3	10883.2	11195.5	12166.3	10598.0
60°	6786.1	6883.7	7865.7	9948.0	11076.4	11281.8	11618.5	11654.2	12120.3	13349.1	11324.9
62.5°	6492.6	6599.5	7601.2	9586.9	11480.6	12086.6	12520.8	12552.7	13099.6	14564.7	12027.5
65°	5990.8	6111.8	7213.9	9349.6	11848.3	13136.1	13668.0	13689.5	14224.2	15838.4	12564.9
67.5°	5281.7	5392.3	6483.2	8825.3	12120.3	14410.8	15193.1	15205.3	15339.4	16737.9	12839.7
70°	4453.4	4495.6	5442.0	7742.9	11798.6	15603.0	16864.5	16867.3	16356.2	17313.8	12794.7
72.5°	3129.0	3228.5	3950.7	5861.3	10139.4	15457.6	17732.1	17764.0	16828.9	17023.0	11772.3
75°	1919.1	2024.1	2478.1	3552.1	6432.5	12156.9	16383.4	16604.7	15942.5	15178.1	9616.9
77.5°	1283.1	1322.5	1617.0	2071.0	2914.2	6994.4	12595.9	13012.3	13244.0	11068.9	6150.2
80°	715.7	790.7	1072.1	1286.9	1296.3	2779.2	7552.5	7650.0	7368.6	4407.5	1897.5
82.5°	378.9	420.2	715.7	756.0	707.2	930.5	2814.8	2817.6	2354.3	1181.8	563.7
85°	293.6	328.3	490.6	461.5	361.1	412.7	928.6	979.2	801.0	484.0	183.8
87.5°	146.3	182.0	333.0	292.6	141.6	118.2	332.0	354.5	316.1	189.5	66.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317920

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0	4898.0
2.5°	4910.2	4918.7	4929.0	4917.7	4914.0	4899.0	4873.6	4868.0	4854.9	4855.8	4863.3
5°	4953.4	4967.4	4961.8	4918.7	4867.1	4794.9	4719.8	4656.0	4613.8	4611.0	4608.2
7.5°	5035.9	5045.3	5001.2	4878.3	4733.9	4566.9	4409.4	4271.5	4188.0	4167.4	4162.7
10°	5165.3	5163.5	5042.5	4794.9	4506.9	4208.6	3955.4	3764.0	3652.4	3619.6	3611.1
12.5°	5309.8	5288.2	5056.5	4642.9	4186.1	3772.5	3451.7	3238.8	3122.5	3085.0	3075.6
15°	5458.9	5405.5	5021.8	4415.9	3792.2	3302.6	2965.8	2768.9	2706.0	2685.4	2681.6
17.5°	5597.7	5494.6	4922.4	4108.3	3342.9	2834.5	2571.9	2493.1	2508.1	2535.3	2536.2
20°	5733.8	5554.6	4763.0	3720.0	2869.2	2449.0	2359.9	2418.1	2489.3	2544.7	2552.2
22.5°	5867.9	5596.8	4557.6	3271.6	2445.3	2232.3	2295.2	2401.2	2482.8	2542.8	2553.1
25°	5980.4	5607.1	4274.3	2793.2	2150.7	2150.7	2264.2	2364.6	2445.3	2504.4	2514.7
27.5°	6021.7	5537.7	3874.7	2350.5	2002.5	2113.2	2221.1	2304.6	2373.0	2435.9	2447.1
30°	6037.7	5409.2	3413.2	1995.0	1941.6	2072.9	2162.9	2234.2	2298.9	2358.0	2368.4
32.5°	6040.5	5254.5	2923.6	1793.4	1899.4	2030.7	2090.7	2153.6	2223.0	2246.4	2250.2
35°	6058.3	5071.6	2407.7	1690.2	1860.0	1991.3	2039.1	2084.1	1971.6	1980.0	1987.5
37.5°	6109.9	4890.5	1976.3	1632.1	1834.7	1970.7	2027.9	1864.7	1776.5	1755.9	1753.0
40°	6206.5	4697.3	1656.4	1585.2	1825.3	1981.0	1955.6	1740.9	1588.9	1475.4	1458.5
42.5°	6340.6	4489.1	1452.0	1554.2	1831.8	2030.7	1855.3	1621.7	1369.4	1296.3	1286.9
45°	6491.6	4270.5	1341.3	1532.6	1854.3	2069.1	1834.7	1463.2	1267.2	1211.8	1207.2
47.5°	6637.9	4003.2	1284.1	1523.2	1885.3	2038.2	1747.4	1414.4	1218.4	1189.3	1192.1
50°	6805.8	3762.2	1249.4	1512.9	1912.5	2018.5	1648.9	1389.1	1199.7	1235.3	1272.8
52.5°	6947.5	3512.7	1218.4	1492.3	1922.8	1983.8	1623.6	1393.8	1199.7	1268.1	1303.8
55°	7115.4	3324.1	1182.8	1449.1	1903.1	1885.3	1605.8	1421.9	1213.7	1170.6	1174.3
57.5°	7332.0	3262.2	1143.4	1381.6	1837.5	1741.8	1597.3	1449.1	1205.3	1178.1	1187.5
60°	7632.2	3327.9	1127.4	1293.4	1735.2	1629.2	1598.3	1435.1	1146.2	1099.3	1100.2
62.5°	7918.3	3401.0	1126.5	1238.1	1609.5	1528.9	1576.7	1389.1	1116.2	1089.0	1099.3
65°	8012.1	3326.9	1081.5	1176.2	1467.9	1408.8	1537.3	1340.3	1093.7	1052.4	1050.5
67.5°	7886.4	3097.1	990.5	1075.8	1305.6	1269.1	1485.7	1282.2	1058.0	1024.3	1018.6
70°	7513.1	2584.1	877.9	943.6	1120.9	1111.5	1404.1	1214.7	1010.2	981.1	956.7
72.5°	6508.5	1841.2	740.1	785.1	912.6	942.7	1291.6	1126.5	942.7	879.8	842.3
75°	5345.4	1362.9	607.8	617.2	693.2	774.8	1136.8	1023.3	862.9	756.0	726.9
77.5°	3273.5	833.8	484.0	487.7	497.1	618.1	936.1	907.9	761.6	630.3	609.7
80°	1059.9	454.9	349.9	367.7	339.5	453.0	724.1	772.9	653.8	527.1	504.6
82.5°	403.3	265.4	236.4	248.6	235.4	303.9	528.1	619.1	535.6	433.3	352.7
85°	195.1	150.1	139.8	156.6	145.4	155.7	337.7	455.8	406.1	282.3	262.6
87.5°	69.4	66.6	53.5	72.2	61.9	55.3	103.2	229.8	268.3	194.2	173.5
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)