

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: P190810

Luminaire Tested: **GAN-AF-02-LED-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190810  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-02-LED-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13087.6 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 113  
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

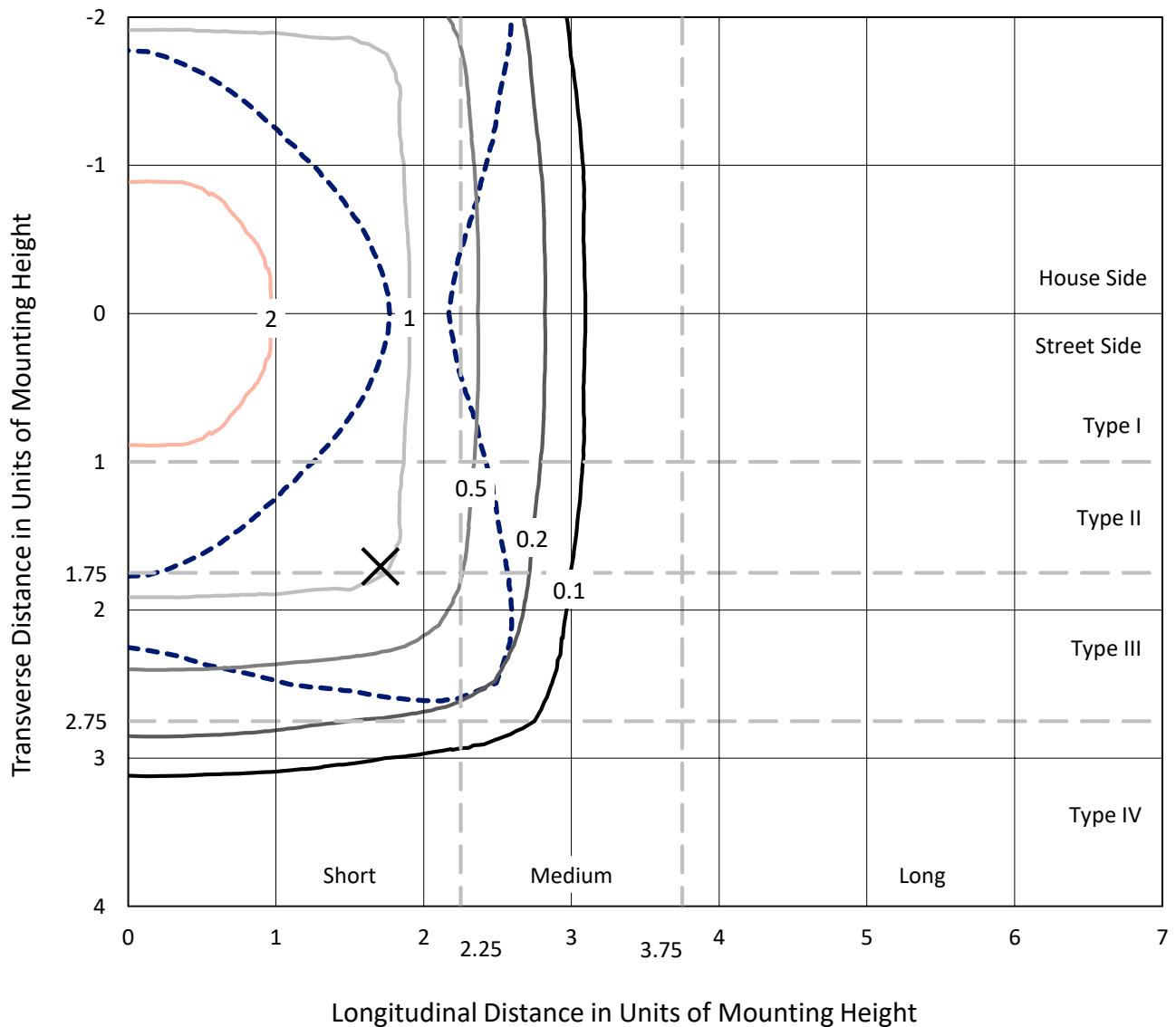


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

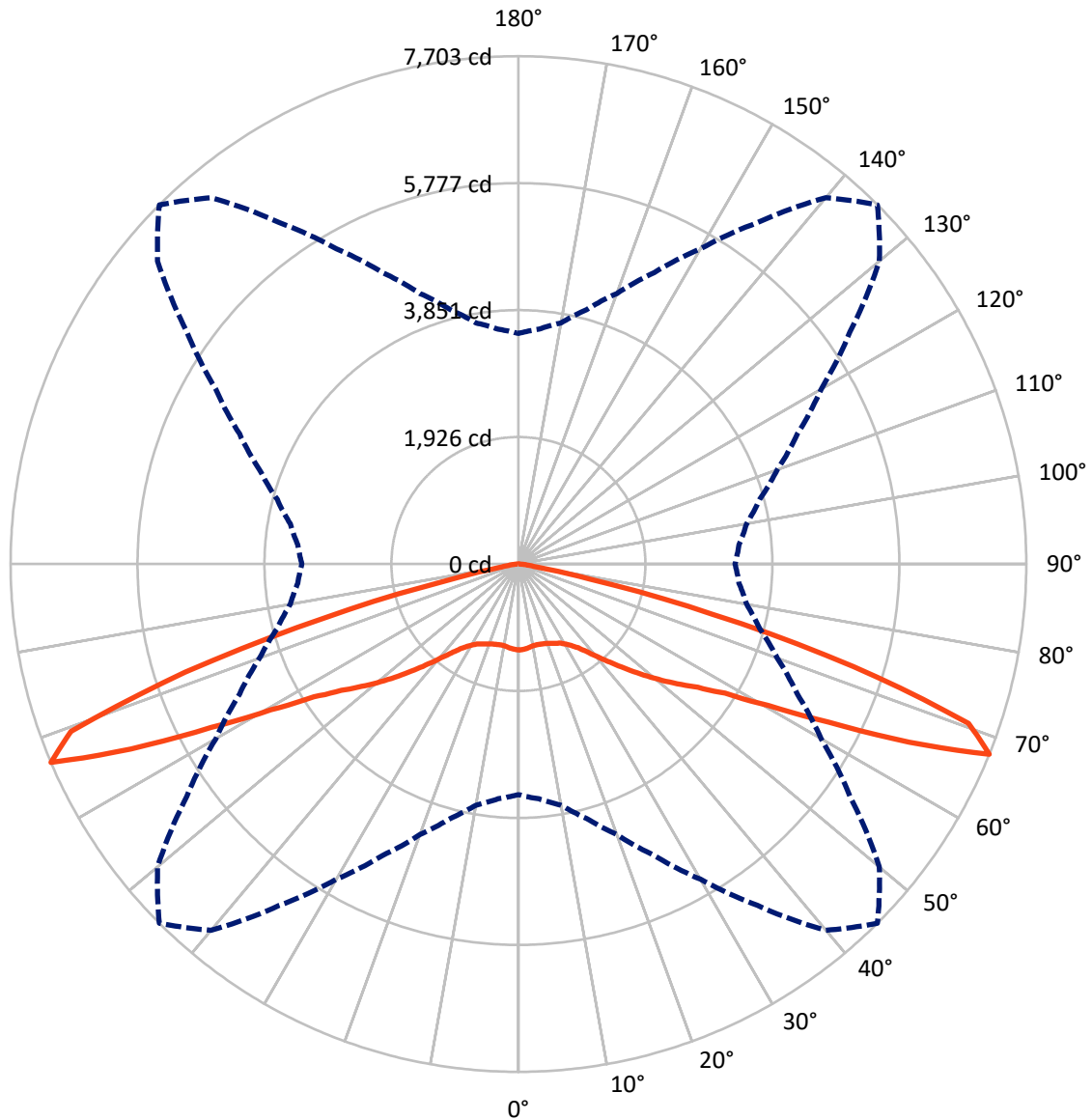


Based on 20 foot mounting height. Maximum calculated value = 3.3 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6543.8	0.0	6543.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6543.8	0.0	6543.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13087.6	0.0	13087.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.1	0.9
10°-20°	354.2	2.7
20°-30°	602.2	4.6
30°-40°	984.4	7.5
40°-50°	1757.3	13.4
50°-60°	2962.8	22.6
60°-70°	4597.9	35.1
70°-80°	1615.5	12.3
80°-90°	91.3	0.7
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°	13087.6	100.0
0°-180°	13087.6	100.0



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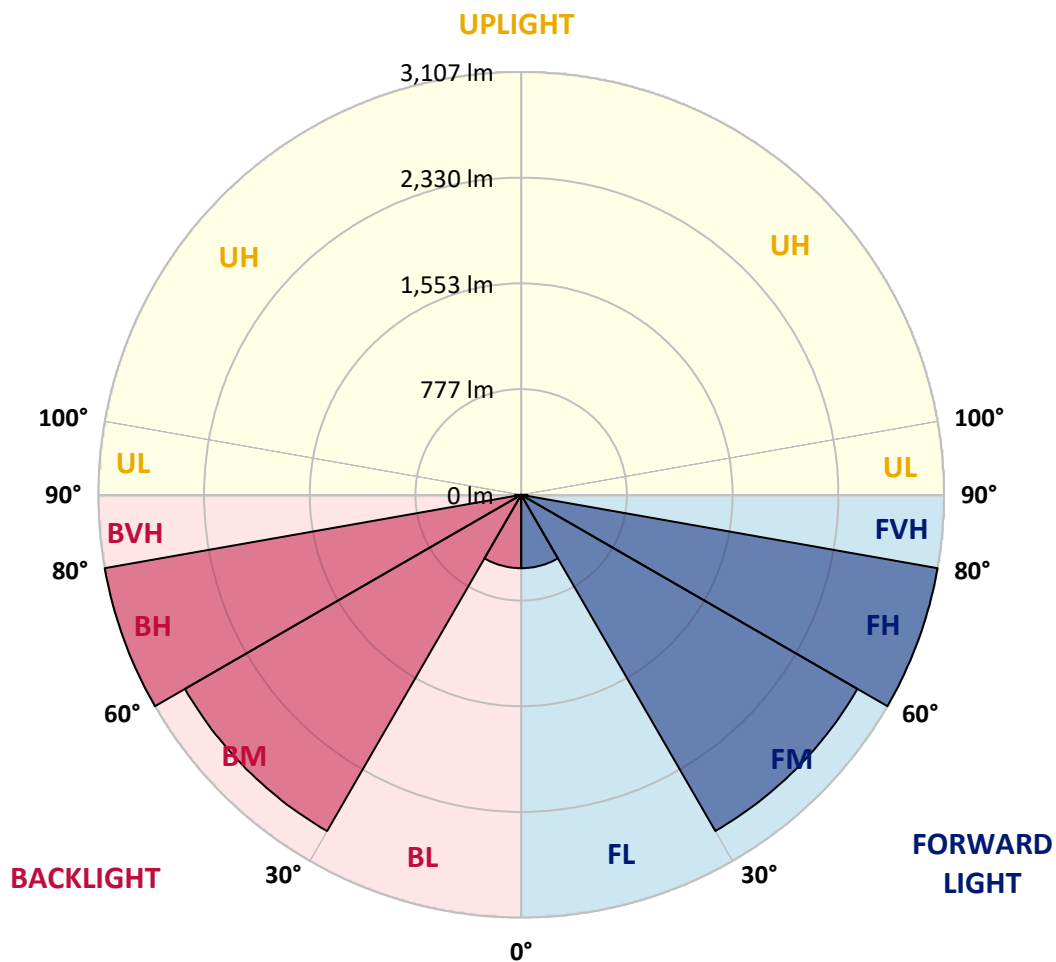
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.2	4.1			
FM (30°-60°)	2852.3	21.8			
FH (60°-80°)	3106.7	23.7			G2/5000
FVH (80°-90°)	45.6	0.3			G1/100
BL (0°-30°)	539.2	4.1	B2/1000		
BM (30°-60°)	2852.3	21.8	B3/5000		
BH (60°-80°)	3106.7	23.7	B4/5000		G2/5000
BVH (80°-90°)	45.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1299.5	1300.6	1300.6	1300.6	1300.1	1300.1	1298.8	1300.1	1299.5	1297.6	1298.2
5°	1288.6	1289.8	1289.8	1289.2	1291.0	1290.4	1288.6	1289.8	1289.2	1288.0	1288.6
7.5°	1273.0	1274.7	1274.7	1274.2	1275.9	1275.3	1274.2	1274.7	1274.7	1273.0	1273.0
10°	1255.5	1256.7	1256.7	1256.1	1259.0	1259.0	1258.5	1260.3	1260.9	1259.0	1257.9
12.5°	1239.2	1241.0	1241.0	1243.5	1246.5	1247.7	1250.7	1253.1	1255.5	1254.9	1252.5
15°	1229.6	1230.8	1233.2	1236.2	1241.0	1245.2	1250.0	1255.5	1260.3	1261.5	1257.9
17.5°	1223.6	1225.4	1229.0	1233.2	1239.8	1247.1	1254.2	1261.5	1268.2	1270.5	1266.3
20°	1221.8	1222.9	1226.6	1233.8	1242.9	1253.7	1264.0	1272.3	1281.3	1284.4	1281.3
22.5°	1225.4	1227.8	1232.0	1240.4	1252.5	1266.3	1278.4	1289.8	1301.2	1306.6	1302.4
25°	1241.7	1244.0	1249.4	1260.3	1273.6	1288.0	1301.8	1315.1	1325.3	1330.8	1327.7
27.5°	1271.7	1274.7	1281.3	1292.2	1306.6	1322.3	1337.3	1348.1	1356.6	1358.4	1354.8
30°	1316.8	1323.5	1331.4	1343.3	1360.2	1373.4	1388.5	1398.2	1408.4	1408.4	1405.3
32.5°	1387.3	1393.9	1402.4	1413.8	1427.0	1441.4	1454.7	1463.1	1474.0	1474.6	1467.3
35°	1492.6	1495.7	1502.8	1510.1	1522.2	1534.7	1546.2	1551.6	1560.6	1561.2	1554.6
37.5°	1631.6	1632.2	1637.0	1639.5	1650.3	1664.1	1675.0	1678.6	1687.1	1685.8	1679.2
40°	1793.5	1796.6	1798.3	1801.9	1813.4	1826.7	1838.1	1839.9	1848.9	1847.1	1838.7
42.5°	1980.7	1982.0	1992.2	1997.6	2008.5	2015.0	2029.4	2031.3	2042.1	2037.3	2027.7
45°	2190.8	2201.6	2211.2	2222.1	2233.5	2241.4	2252.7	2250.4	2257.6	2250.4	2245.0
47.5°	2411.7	2419.5	2441.2	2458.0	2476.7	2483.3	2499.6	2492.3	2499.6	2489.4	2487.5
50°	2654.9	2668.7	2687.3	2706.6	2726.5	2737.3	2758.4	2749.3	2758.9	2749.3	2743.9
52.5°	2894.3	2898.0	2938.9	2967.2	2994.9	3007.5	3020.2	3016.0	3016.6	3016.0	3010.5
55°	3121.8	3130.3	3171.2	3209.7	3257.9	3293.4	3315.1	3312.6	3307.2	3301.8	3292.8
57.5°	3378.3	3386.7	3433.6	3481.2	3535.9	3586.5	3630.5	3675.6	3693.1	3697.9	3678.0
60°	3725.0	3724.4	3787.0	3844.7	3922.9	3998.2	4094.5	4192.6	4305.1	4357.5	4288.3
62.5°	4077.6	4092.1	4182.3	4284.6	4445.9	4603.1	4780.6	4955.2	5133.3	5278.3	5124.3
65°	4035.5	4090.9	4225.1	4456.8	4754.7	5108.6	5491.4	5896.5	6262.4	6513.9	6231.7
67.5°	3497.5	3576.2	3712.9	3994.5	4367.1	4877.5	5520.3	6321.3	7252.4	7702.6	7144.7
70°	2535.1	2624.1	2767.4	3042.5	3411.3	3896.4	4594.6	5556.4	6789.0	7242.8	6628.3
72.5°	1261.5	1309.7	1398.2	1573.3	1852.6	2246.2	2879.3	3803.7	4894.3	5310.9	4749.3
75°	428.5	450.8	465.9	523.0	611.5	766.2	1081.0	1662.9	2536.8	3041.2	2500.7
77.5°	247.3	248.0	258.2	268.4	283.5	300.3	342.5	449.6	777.6	1104.4	804.7
80°	160.1	159.5	168.0	175.7	186.0	194.4	196.8	208.3	240.2	284.7	254.6
82.5°	83.1	93.3	111.9	122.1	141.5	145.1	140.2	136.1	143.8	149.2	152.8
85°	45.7	39.7	59.5	77.0	85.4	86.6	86.6	81.8	84.9	83.1	90.3
87.5°	21.1	19.2	23.4	38.0	40.3	34.3	36.1	31.9	22.9	22.3	25.3
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1298.2	1298.8	1298.8	1300.6	1301.2	1302.4	1303.6	1304.3
5°	1288.0	1289.8	1288.6	1290.4	1290.4	1291.6	1291.6	1292.2
7.5°	1273.0	1274.7	1274.7	1274.7	1274.2	1275.9	1275.9	1275.9
10°	1257.3	1258.5	1257.9	1256.7	1255.5	1257.3	1256.7	1256.1
12.5°	1252.5	1249.4	1247.1	1245.9	1243.5	1244.0	1242.3	1242.3
15°	1255.5	1250.0	1245.9	1244.0	1241.7	1240.4	1239.2	1239.8
17.5°	1263.3	1256.7	1251.3	1248.3	1245.2	1243.5	1241.0	1241.7
20°	1277.2	1269.4	1261.5	1255.5	1250.0	1247.1	1245.2	1244.6
22.5°	1297.6	1286.2	1274.7	1265.7	1258.5	1254.2	1252.5	1251.3
25°	1321.1	1308.5	1295.3	1284.9	1277.8	1272.3	1268.8	1268.8
27.5°	1350.6	1340.4	1328.3	1316.2	1309.7	1304.3	1301.8	1300.6
30°	1399.9	1390.3	1380.7	1369.2	1360.8	1355.4	1351.2	1347.5
32.5°	1463.1	1455.4	1447.5	1439.1	1431.2	1424.0	1417.4	1414.3
35°	1552.2	1546.2	1540.8	1531.2	1528.1	1523.9	1520.3	1517.3
37.5°	1675.0	1672.6	1672.6	1662.4	1659.9	1658.1	1654.5	1655.1
40°	1836.3	1838.7	1835.7	1832.1	1830.3	1825.5	1825.5	1829.6
42.5°	2027.1	2028.9	2035.5	2029.4	2036.1	2030.0	2026.5	2029.4
45°	2248.5	2255.2	2268.4	2262.4	2266.7	2256.4	2243.7	2244.4
47.5°	2497.1	2503.2	2508.6	2504.4	2505.0	2488.1	2471.2	2467.1
50°	2755.3	2757.8	2760.7	2754.7	2755.9	2737.3	2718.0	2718.6
52.5°	3010.5	3022.0	3034.0	3017.7	3014.1	2993.1	2965.9	2955.1
55°	3302.4	3318.7	3304.8	3276.5	3248.3	3219.9	3184.4	3178.4
57.5°	3662.4	3634.6	3591.3	3537.8	3498.6	3458.9	3422.8	3407.8
60°	4163.1	4059.0	3980.7	3901.2	3851.3	3802.6	3755.0	3747.8
62.5°	4870.9	4690.9	4535.0	4370.8	4236.6	4131.8	4048.1	4024.7
65°	5758.0	5332.5	4963.6	4619.3	4320.1	4094.5	3952.5	3889.9
67.5°	6139.6	5299.4	4666.8	4178.1	3787.0	3513.6	3360.2	3283.8
70°	5395.1	4394.8	3706.9	3217.6	2861.3	2570.0	2430.9	2349.1
72.5°	3711.7	2795.6	2210.6	1804.4	1519.7	1275.9	1179.7	1172.4
75°	1666.6	1103.9	760.8	586.3	493.6	429.1	409.3	394.2
77.5°	466.5	344.8	307.6	287.7	268.4	246.1	237.7	239.6
80°	226.9	214.3	205.8	193.2	175.7	157.1	148.6	152.3
82.5°	150.5	148.6	154.1	145.1	119.8	101.7	85.4	78.3
85°	91.5	92.7	94.5	95.1	80.6	56.6	38.6	43.4
87.5°	36.1	41.5	45.1	47.0	44.0	27.1	21.7	22.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)